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**The Patent  
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**La Gazette  
du Bureau  
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**Canada**

CIPO  OPIC

# THE PATENT OFFICE RECORD



# LA GAZETTE DU BUREAU DES BREVETS

P. Trépanier  
Acting Commissioner of Patents

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P. Trépanier  
Commissaire intérimaire aux brevets

**La Gazette du Bureau des brevets paraît le mardi de chaque semaine sous l'autorité du Commissaire aux brevets, Ottawa-Hull, Canada, à qui doit être adressée toute correspondance autre que les abonnements ou les commandes d'exemplaires séparés.**

**Le Bureau des brevets 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

### 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
  
- [43] - Date of publication by printing or similar process of an unexamined document on which no grant has taken place on or before the said date
  
- [45] - Date of Issue
- [48] - Reissue Grant Date
- [51] - International Classification
- [52] - Domestic Classification
- [54] - Title of Invention
- [60] - Related by Supplementary Disclosure
- [62] - Related by Division
- [64] - Related by Reissue
- [71] - Name(s) of Applicant(s)
- [72] - Name(s) of Inventor(s)
- [73] - Name(s) of Grantee(s)
- [85] - National Entry Date
- [86] - PCT International Filing Data
- [87] - PCT International Publication data

## Avis

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

#### Dates

Toutes dates figurant aux en-têtes 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 en-têtes 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
  
- [43] - Date de publication, par impression ou par un procédé similaire, d'un document non examiné, n'ayant encore donné lieu à la délivrance d'aucun titre à la date en question ou avant
  
- [45] - Date de délivrance
- [48] - Date de redélivrance
- [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] - Noms(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

A complete list of country codes has been published in the issue of April 20, 1999 and will be published twice a year in the last issues of April and October.

## 3. Canadian Class Titles

A numerical index of the Canadian classification titles will be published in the first issue of January each year.

Anyone desirous of ascertaining what classes are directed to subject matter in which he/she has a particular interest may write to the Patent Office for such information. Related subject matter sometimes appears in different classes and could be missed by those not fully familiar with the classification system. It is also possible to obtain on request an alphabetical listing of subject matter titles for the various classes by writing to the Commissioner of Patents, Ottawa-Hull, Canada K1A 0C9.

## 4. Class Schedules and Definitions

A schedule (list of subclasses in a class) for any class listed on these pages may be purchased by writing to the Commissioner of Patents, Ottawa-Hull, Canada K1A 0C9. Definitions of the type of subject matter found in any class or subclass may be purchased for most of the classes. The cost of these individual schedules and definitions is 50¢ per page reproduced by the Patent Office.

Those wishing to purchase a complete set of schedules covering all classes, including the Subject Matter Index and separate listings of all class titles, may do so from Micromedia Limited at a cost of \$25 (98 frame microfiche), or \$200 (paper).

## 5. How to Purchase Paper or Microform-copies of Canadian Patents and Canadian Laid-Open Applications

### A) Paper Copies

Paper copies of Canadian Patents numbers 1 to 445,930 can be purchased at a cost of four dollars (\$4) per copy by writing to the Commissioner of Patents, Ottawa-Hull, K1A 0C9.

## 2. Code des pays

Une liste complète des codes de pays a été publiée dans le numéro du 20 avril 1999 et sera republiée deux fois par année dans le dernier numéro des mois de avril et d'octobre.

## 3. Liste des classes canadiennes

Un index numérique des titres de la classification canadienne sera publié dans le premier numéro de janvier, à chaque année.

Toute personne désirant savoir dans quelles classes sont classifiés les sujets auxquels il/elle porte un intérêt particulier peut se renseigner en écrivant au Bureau des brevets. Des sujets connexes peuvent parfois figurer dans des classes différentes et une personne qui ne serait pas complètement familière avec le système de classification pourrait omettre les classes. On peut également obtenir une liste alphabétique des titres des objets classifiés dans les différentes classes en écrivant au Commissaire aux brevets, Ottawa-Hull, Canada K1A 0C9.

## 4. Listes et définitions des classes

Il est possible d'acheter les listes des sous-classes pour chacune des classes énumérées dans ces pages en écrivant au Commissaire aux brevets, Ottawa-Hull, Canada K1A 0C9. Des définitions selon les sujets se trouvant dans chaque classe ou sous-classe peuvent aussi être achetées pour la plupart des classes. Les prix de ces listes et définitions individuelles est de 0,50 \$ par page reproduite par le Bureau des brevets.

Les personnes qui désirent acheter une série complète des listes couvrant toutes les classes, y compris l'index des sujets et listes distinctes de tous les titres de classes, doivent s'adresser à Micromedia Limited. Le prix est de 25 \$ pour des microfiches à 98 cadres d'image ou de 200 \$ pour des copies sur papier.

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

### A) Copies sur papier

Les copies sur papier des brevets canadiens, numéros 1 à 445,930, sont disponibles au coût de quatre dollars (4 \$) par copie, en écrivant au Commissaire aux brevets, Ottawa-Hull, K1A 0C9.

## Notices

Paper copies of all Canadian Patents and Canadian Laid-Open Applications can be purchased at a cost of eight dollars (\$8) per copy plus estimated postage and taxes. Copies of these patents are available by writing or calling: Micromedia Limited, 240 Catherine Street, Suite 305, Ottawa, Ontario, Canada, K2P 2G8, Telephone (613) 237-4250, Facsimile (613) 237-4251.

Toll Free for North America: 1-800-567-1914

E-mail: tic@micromedia.on.ca

### B) Microform Copies

Copies of Canadian Patents from number 445,931 to date and Canadian Laid-Open Applications from number 2,000,001 to date can be purchased from Micromedia Limited at a cost of \$4 each (98 frame microfiche).

Beginning with Canadian Patent number 986,651, annual collections may be purchased from Micromedia Limited in the following categories:

- Abstracts of Canadian Patents issued weekly in numerical order (98 frame microfiche).
- Cover pages, claims and drawings of Canadian Patents issued weekly in numerical order (98 frame microfiche).
- Full text of Canadian Patents issued weekly in numerical order (16 mm microfilm).

## 6. Orders for Patents By Class or Sub-Class

Micromedia Limited will fill standing orders for all Canadian patents issuing in any class or subclass. Patents issuing after the date of the order will be supplied. Annual fee for this service is \$150 per class.

The charge of eight dollars (\$8) per paper copy or the charge of four dollars (\$4) per microfiche copy plus postage and taxes will apply for copies of all patents supplied.

Those wishing to use the service should open a deposit account with Micromedia Limited, 240 Catherine Street, Suite 305, Ottawa, Ontario, Canada, K2P 2G8, Telephone (613) 237-4250, Facsimile (613) 237-4251.

Les copies sur papier de tous les brevets canadiens et des demandes canadiennes mises à la disponibilité du public sont disponibles au coût de huit dollars (8 \$) par copie, plus l'affranchissement et les taxes. Il suffit d'écrire à Micromedia Limited, 240 rue Catherine, pièce 305, Ottawa (Ontario), Canada, K2P 2G8, ou de composer le numéro (613) 237-4250, Télécopieur (613) 237-4251.

Numéro sans frais Amérique du Nord: 1-800-567-1914

Courriel: tic@micromedia.on.ca

### B) Copies en microforme

Les copies des brevets canadiens à partir du numéro 445,931 et des demandes canadiennes mises à la disponibilité, du public à partir du numéro 2,000,001 sont disponibles chez Micromedia Limited au coût de 4 \$ chacune (microfiche à 98 cadres d'image).

On peut également se procurer auprès de Micromedia Limited, à partir du numéro de brevet 986,651, des séries annuelles dans les catégories suivantes:

- Précis de brevets canadiens délivrés chaque semaine par ordre numérique (microfiche à 98 cadres d'image).
- Pages couvertures, revendications et dessins de brevets canadiens délivrés chaque semaine par ordre numérique (microfiche à 98 cadres d'image).
- Exemplaires complets de brevets canadiens délivrés, chaque semaine, par ordre numérique (microfilm 16 mm).

## 6. Commandes de brevets par classe ou sous-classe

Micromedia Limited exécutera les commandes permanentes pour tous les brevets délivrés dans toute classe ou sous-classe. Les brevets délivrés après la date de la commande seront fournis. Le tarif annuel de ce service est de 150 \$ par classe.

La somme de huit dollars (8 \$) pour chaque copie reproduite sur papier ou la somme de quatre (4 \$) pour chaque copie reproduite sur microfiche, plus les frais de poste et les taxes sont exigibles pour chaque exemplaire de brevet fourni.

Les personnes intéressées à prendre avantage de ce service sont invitées à ouvrir un compte de dépôt avec Micromedia Limited, 240 rue Catherine, pièce 305, Ottawa (Ontario), Canada, K2P 2G8, ou de composer le numéro (613) 237-4250, Télécopieur (613) 237-4251.

## Avis

Toll Free for North America: 1-800-567-1914

Numéro sans frais Amérique du Nord: 1-800-567-1914

E-mail: tic@micromedia.on.ca

Courriel: tic@micromedia.on.ca

A listing of all patents that have issued in each class or subclass, including both patents in force and expired patents, may be ordered at a price of 50¢ per page from the Patent Office.

Les listes de brevets délivrés dans chaque classe ou sous-classe, incluant les brevets en vigueur et ceux ayant expirés, peuvent être commandées auprès du Bureau des brevets au prix de 0,50 \$ la page.

### 7. Advice on Making a Patent Application

Any person intending to file a patent application may obtain an information kit on request from the Commissioner of Patents, Ottawa-Hull, 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 on request.

### 7. 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-Hull, 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.

### 8. 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-Hull, Canada, K1A 0C9. If a voluntary licence cannot be arranged, a compulsory licence may be possible.

### 8. 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-Hull, 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.

#### 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.

#### 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.

### 9. Patents Available for Licence or Sale

An asterisk (\*) placed beside any patent listed in this issue of the 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 under in part 10 of these notices.

### 9. 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. 10 des présents avis.

## Notices

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

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

2,023,086  
2,118,629  
2,187,843

### 11. Expired Patents

For patent applications filed before October 1, 1989, the life of a Canadian patent is 17 years. Consequently all Canadian patents up to and including No. 1,130,950 which issued on August 31, 1982 have now expired. The inventions covered by these and all earlier patents may now be used by the public in Canada provided other unexpired patents are not infringed.

### 12. Laid-Open Applications

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.

### 13. Language of Published Documents

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

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

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

2,023,086  
2,118,629  
2,187,843

### 11. Brevets expirés

Pour toutes les demandes de brevet déposées avant le 1er octobre 1989, la durée d'un brevet canadien est de 17 ans. Par conséquent, tous les brevets canadiens qui ont été délivrés le 31 août 1982 sont maintenant expirés, jusque et y compris le no. 1,130,950. Les inventions faisant l'objet de ces brevets et de tout brevet antérieur peuvent maintenant être utilisées par le public au Canada, pourvu qu'il n'y ait pas contre façon d'autres brevets non expirés.

### 12. Demandes mises à la disponibilité du public

Toutes les demandes de brevet et documents relatifs à ceux-ci, déposées 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.

### 13. Langue du document publié

Toute personne intéressée d'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.



## 14. PCT Notices

### PCT Signature Requirements

Please note that in conformity with the PCT requirements, the European Patent Office (EPO) requires that the signature identifies a physical person (whose name should be typewritten below the signature); where the person signs on behalf of a legal entity, the capacity should also be indicated (typewritten). (See PCT -Applicant's Guide, Vol. I; No. 93 and 230).

### Patent Cooperation Treaty (PCT)

Copies of the Patent Cooperation Treaty Applicants Guide and the Patent Cooperation Treaty & Regulations are available from WIPO at a cost of \$140.00 US or 200 Swiss Francs and \$15.00 US or 18 Swiss Francs, respectively. Those wishing for further information including prices for both previous and current subscriptions should contact WIPO -World Intellectual Property Organization 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 at [publications.mail@wipo.int](mailto:publications.mail@wipo.int) or visit their website at <http://www.wipo.int>.

## 14. Avis PCT

### Exigences des signatures du PCT

Veillez noter que conformément aux exigences du PCT, l'Office européen des brevets (OEB) réclame que la signature identifie une personne physique dont le nom dactylographié devrait apparaître au-dessous de la signature. Lorsque telle personne signe au nom d'une personne morale, il convient d'indiquer, également en caractères dactylographiques, la qualité du signataire. (Voir le Guide du déposant - PCT, Vol. I, no. 93 et 230).

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

Des copies du Guide du déposant - PCT ainsi que du Traité et des Règlements sont disponibles auprès de l'OMPI au coût de 140 \$ EU ou 200 francs suisses et 15 \$ EU ou 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 - Organisation mondiale de la propriété intellectuelle 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 à [publications.mail@wipo.int](mailto:publications.mail@wipo.int) ou visiter leur site web à <http://www.wipo.int>.

## Notices

### 15. Patent Cooperation Treaty (PCT)

#### SCHEDULE OF FEES APPLICABLE AS OF JULY 15, 1999

FEES	AMOUNTS \$
1. <b>Transmittal Fee:</b> (Rule 14)	200.00
2*. <b>Basic Fee:</b> (Rule 15.2(a))	641.00
Amount for each additional sheet over 30	15.00
3. <b>Designation Fee:</b> (Rule 15.2(a))	148.00
The maximum that can be charged for the Designation Fee is \$1,480.00; therefore, if more than 10 countries are designated the fee remains \$1,480.00	

4. **International Search Fee** 1,874.00  
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 Officer). If the International Application does not contain a priority claim, the Designation Fee is due within one year from the International Filing Date. These fees are to be paid in Canadian dollars and made payable to the Receiver General of 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 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.

5. **Late Payment Fee** 50% of the fees that are due, or,  
Minimum: Transmittal Fee  
Maximum: Basic Fee

#### Preliminary Examination

6. **Handling Fee:** 289.46 Deutsche Marks  
(Rule 57.2(a)) 148.00 Euro Dollars

7. **Preliminary Examination Fee:** 2,998.29 Deutsche Marks  
(Rule 58) 1,533.00 Euro Dollars

The Preliminary Examination Fees are paid in Deutsche Marks and are payable directly to the European Patent Office in Munich.

\* International fees will be reduced by \$197.00 for all applications filed using PCT-Easy.

### 15. Traité de coopération en matière de brevets (PCT)

#### BARÈME DE TAXES À PARTIR DU 15 JUILLET 1999

TAXES	MONTANTS \$
1. <b>Taxe de transmission:</b> (Règle 14)	200,00
2*. <b>Taxe de base:</b> (Règle 15.2(a))	641,00
Montant pour chaque feuille au delà de 30	15,00
3. <b>Taxe de désignation</b> (par pays) (Règle 15.2(a))	148,00
Le maximum payable pour la taxe de désignation est de 1 480,00 \$; donc, si plus que 10 pays sont désignés, la taxe demeure 1 480,00 \$.	

4. **Taxe de recherche internationale** 1 874,00  
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 du dépôt de la demande (soit la date de réception de la demande internationale). Si la demande ne contient pas de revendication de priorité, la taxe de désignation est due dans un délai d'un an à compter de la date du dépôt de la demande internationale. Les taxes doivent être payées en dollars canadien et sont payables au Receveur Générale du Canada.

Si l'office récepteur constate que le déposant ne lui a payé aucune taxe, il invite le déposant à lui payer, dans un délai d'un mois à compter de la date de l'invitation, le montant nécessaire pour couvrir ces taxes, majoré, le cas échéant, de la taxe pour paiement tardif visée à la règle 16bis.2.

5. **Taxe pour paiement tardif** 50% du montant impayé, ou,  
Minimum: taxe de transmission  
Maximum: taxe de base

#### Examen préliminaire

6. **Taxe de traitement:** 289,46 marks allemands  
(Règle 57.2(a)) 148,00 dollars euro

7. **Taxe d'examen préliminaire:** 2 998,29 marks allemands  
(Règle 58) 1 533,00 dollars euro

Les taxes d'examen préliminaire sont payables directement au Bureau Européen des brevets à Munich en marks allemands.

\*Les frais seront réduits par 197,00 \$ pour toutes les demandes déposées en utilisant PCT-Easy.

## Avis

### 16. Acting Appointments

Until further notice, please note the following acting appointments at the Canadian Intellectual Property Office:

1. Acting Chief Executive Officer  
(Maureen Dougan - 997-1057)
2. Acting Commissioner of Patents  
(Pierre Trépanier - 997-1947)
3. Acting Registrar of Trade-marks  
(Doug Kuntze - 997-2423)
4. Acting Chief Operating Officer  
(Carol Cheffins - 997-2186)

As usual, please route all correspondence through the CEO's office, to the attention of Huguette Beauchamp.

### 17. Errata

Reference to the grant of the following application referred to in the Canadian Patent Office Record of July 6, 1999 was in error. No patent was issued under this number.

2,130,159

### 18. Lay-Open Applications

The Patent Office Record of August 31, 1999 contains laid-open applications from July 18, 1999 - July 24, 1999.

### 16. Nominations par int intérim

Jusqu'à nouvel ordre, veuillez prendre note des nominations par intérim suivantes à l'Office de la propriété intellectuelle du Canada :

1. Présidente par intérim  
(Maureen Dougan - 997-1057)
2. Commissaire aux brevets par intérim  
(Pierre Trépanier - 997-1947)
3. Registraire des marques de commerce par intérim  
(Doug Kuntze - 997-2423)
4. Chef des opérations par intérim  
(Carol Cheffins - 997-2186)

Comme d'habitude, veuillez faire parvenir toute correspondance au Bureau du président, à l'attention de Huguette Beauchamp.

### 17. Errata

Les renseignements fournis sous le numéro de la demande suivante, dans la Gazette du bureau des brevets du 6 juillet 1999, étaient erronés. Aucun brevet n'a été émi sous ce numéro.

2,130,159

### 18. Demandes Canadiennes mises à la disponibilité du public

Ce numéro de la Gazette des brevets du Canada contient les demandes disponibles au public pour consultation pour la période du 18 juillet 1999 - 24 juillet 1999.

# Canadian Patents Issued

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## Brevets canadiens délivrés

31 août 1999

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[11] **2,000,067**  
[13] C  
[51] Int.Cl. **6H02G 1/08 6B65G 51/02 6B65H 51/16**  
[25] EN  
[54] **FIBRE BLOWING BRAKE**  
[54] **BROYEUSE AVEC DISPOSITIF DE SOUFFLAGE DES FIBRES**  
[72] Jenkins, Peter David, GB  
[73] British Telecommunications public limited company, GB  
[22] 1989-10-02  
[30] GB (8823426.5) 1988-10-05

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[11] **2,002,269**  
[13] C  
[51] Int.Cl. **6C10L 10/04 6C10G 7/10**  
[25] EN  
[54] **ANTIFOULANT ADDITIVE FOR LIGHT END HYDROCARBONS**  
[54] **ADDITIF ANTISALISSURE POUR HYDROCARBURES DE FRACTIONS LEGERES**  
[72] Dickakian, Ghazi B., US  
[73] EXXON CHEMICAL PATENTS, INC., US  
[22] 1989-11-06  
[30] US (270,545) 1988-11-14

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[11] **2,003,105**  
[13] C  
[51] Int.Cl. **6B05C 17/02**  
[25] EN  
[54] **PAINT ROLLER FRAME INCLUDING SNAP-ON COVER FOR OUTBOARD END CAP**  
[54] **ROULEAU DE PEINTURE AVEC COUVERCLE S'EMBOITANT SUR LE BOUCHON D'EXTREMITE**  
[72] Barker, Richard L., US  
[73] Wooster Brush Company (The), US  
[22] 1989-11-16  
[30] US (340,432) 1989-04-19

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[11] **2,000,602**  
[13] C  
[51] Int.Cl. **6G01B 11/00 6B65B 57/00 6G01B 11/02**  
[25] EN  
[54] **METHOD FOR DETERMINING THE SIZE AND LOCATION OF HEADS (FOR PACKAGING OF PAPER ROLLS)**  
[54] **METHODE POUR DETERMINER LA GROSSEUR ET L'EMPLACEMENT DES TETES (POUR L'EMBALLAGE DES ROULEAUX DE PAPIER)**  
[72] Uomala, Vilho Olavi, CA  
[73] Valmet Paper Machinery Inc., FI  
[22] 1989-10-13  
[30] FI (885042) 1988-11-01

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[11] **2,002,848**  
[13] C  
[51] Int.Cl. **6C12M 1/40 6C12N 11/00 6C07K 17/02 6G01N 27/327 6G01N 33/543 6C12Q 1/68**  
[25] EN  
[54] **WHOLLY MICROFABRICATED BIOSENSORS AND PROCESS FOR THE MANUFACTURE AND USE THEREOF**  
[54] **BIOCAPTEURS ENTIEREMENT MICROSTRUCTURES, PROCEDE DE FABRICATION ET UTILISATION**  
[72] Wieck, Henry J., US  
[72] Steiner, Susan J., US  
[72] Cozzette, Stephen N., CA  
[72] Itak, Jeanne A., US  
[72] Mier, Randall M., US  
[72] Smit, Nicolaas, US  
[72] Van Der Werf, Paul, US  
[72] Davis, Graham, US  
[72] Lauks, Imants R., US  
[72] Piznik, Sylvia, US  
[73] I-STAT CORPORATION, US  
[22] 1989-11-14  
[30] US (07/270,171) 1988-11-14  
[30] US (07/381,223) 1989-07-13  
[30] US (07/432,714) 1989-11-07

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[11] **2,003,349**  
[13] C  
[51] Int.Cl. **6A41D 19/00**  
[25] EN  
[54] **WATERPROOF FIREFIGHTER'S GLOVE**  
[54] **GANT IMPERMEABLE POUR SAPEUR-POMPIER**  
[72] Grilliot, William L., US  
[72] Grilliot, Mary I., US  
[73] NORCROSS SAFETY PRODUCTS, L.L.C., US  
[22] 1989-11-20  
[30] US (278,214) 1988-11-30

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[11] **2,000,834**  
[13] C  
[51] Int.Cl. **6C10M 129/26**  
[25] EN  
[54] **GREASE COMPOSITION**  
[54] **LUBRIFIANT**  
[72] Tury, Bernard, GB  
[73] Imperial Chemical Industries plc, GB  
[22] 1989-10-17  
[30] GB (8825073.3) 1988-10-26

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[11] **2,004,364**  
[13] C  
[51] Int.Cl. **6A61K 48/00 6A61K 35/14 6A61K 35/28 6A61K 31/70**  
[25] EN  
[54] **ANTISENSE OLIGONUCLEOTIDES TO C-MYB ONCOGENE AND USES THEREOF**  
[54] **OLIGONUCLEOTIDES "ANTISENSE" DE C-MYB ONCOGENE ET LEUR UTILISATION**  
[72] Gewirtz, Alan M., US  
[72] Calabretta, Bruno, US  
[73] Temple University - of the Commonwealth System of Higher Education, US  
[22] 1989-12-01  
[30] US (408,026) 1989-09-15  
[30] US (427,659) 1989-10-27

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[11] **2,004,652**  
[13] C  
[51] Int.Cl. 6B01D 53/52 6C01B 17/05  
**6B01D 53/78**  
[25] EN  
[54] METHOD AND APPARATUS FOR EFFECTING GAS-LIQUID CONTACT REACTIONS  
[54] APPAREIL POUR LES REACTIONS DE CONTACT GAZ/LIQUIDE, ET METHODE CONNEXE  
[72] Smith, James W., CA  
[72] Ellenor, David T. R., CA  
[73] University of Toronto, Innovations Foundation, CA  
[22] 1989-12-05

---

[11] **2,004,705**  
[13] C  
[51] Int.Cl. 6B29C 47/06 6B32B 27/08  
[25] EN  
[54] ORIENTED WHITE OPAQUE MULTILAYER HEAT SEALABLE FILM AND METHOD OF FORMING SAME  
[54] PELLICULE OPAQUE, BLANCHE A COUCHES MULTIPLES ORIENTEES POUR THERMOSCELLAGE ET PROCEDE DE FABRICATION  
[72] Cyr, Patricia A., US  
[72] Liu, Leland Li-Jen, US  
[73] Mobil Oil Corporation, US  
[22] 1989-12-06

---

[11] **2,005,551**  
[13] C  
[51] Int.Cl. 6G01N 27/82 6G01N 23/00  
**6G01N 22/02**  
[25] EN  
[54] TRANSIENT ELECTROMAGNETIC METHOD FOR DETECTING IRREGULARITIES ON CONDUCTIVE CONTAINERS HAVING VARIATIONS IN JACKET THICKNESS  
[54] METHODE ELECTROMAGNETIQUE POUR DETECTER LES IRREGULARITES SUR LES CONTENANTS CONDUCTEURS A ENVELOPPES D'EPAISSEUR VARIABLE  
[72] Lara, Pedro F., US  
[73] ATLANTIC RICHFIELD COMPANY, US  
[22] 1989-12-14  
[30] US (07/292,563) 1988-12-29

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[11] **2,006,028**  
[13] C  
[51] Int.Cl. 6A61K 7/00 6A61K 9/16  
**6A61K 47/30**  
[25] FR  
[54] COMPOSITION COSMETIQUE OU PHARMACEUTIQUE CONTENANT DES MICROSPHERES DE POLYMERES OU DE CORPS GRAS CHARGES D'AU MOINS UN PRODUIT ACTIF  
[54] COSMETIC OR PHARMACEUTICAL COMPOSITION CONTAINING POLYMERS OR FATTY BODIES MICROSPHERES WITH AT LEAST ONE ACTIVE INGREDIENT  
[72] Papantoniou, Christos, FR  
[72] Schaefer, Hans, FR  
[72] Watts, Francine, FR  
[72] Mahieu, Claude, FR  
[73] Centre International de Recherches Dermatologique (C.I.R.D.), FR  
[22] 1989-12-19  
[30] LU (87410) 1988-12-20

---

[11] **2,006,502**  
[13] C  
[51] Int.Cl. 6H04M 1/00  
[25] EN  
[54] TELEPHONE APPARATUS  
[54] APPAREIL TELEPHONIQUE  
[72] Yasuda, Hiroshi, JP  
[72] Someno, Noboru, JP  
[73] Sony Corporation, JP  
[22] 1989-12-22  
[30] JP (330139/88) 1988-12-27

---

[11] **2,007,334**  
[13] C  
[51] Int.Cl. 6A61K 33/00 6A61K 9/68  
**6A61K 31/70**  
[25] EN  
[54] ANTI-ULCER COMPOSITION  
[54] COMPOSE ANTI-ULCEREUX  
[72] Harwood, Richard J., US  
[72] Sonk, Joseph S., US  
[72] Henry, Edward V., US  
[72] Foo, Luke T. H., US  
[72] Rheingold, Jay L., US  
[72] Degroof, Robert C., US  
[73] E.R. SQUIBB & SONS, INC., US  
[22] 1990-01-08  
[30] US (303,871) 1989-01-30

---

[11] **2,008,235**  
[13] C  
[51] Int.Cl. 6E01C 23/00  
[25] EN  
[54] VARIABLE GEOMETRY TILLER  
[54] MACHINE A TRAVAILLER LA NEIGE, DE GEOMETRIE VARIABLE  
[72] Pelletier, Michel, CA  
[73] BOMBARDIER INC., CA  
[22] 1990-01-22

---

[11] **2,008,504**  
[13] C  
[51] Int.Cl. 6C07C 31/26 6A23L 3/37  
[25] EN  
[54] CRYOPROTECTANT SORBITOL CRYSTAL SPHERULES  
[54] SPHERULES CRYOPROTECTRICES A BASE DE SORBITOL CRISTALLISE  
[72] DuRoss, James W., US  
[73] SPI Polyols, Inc., US  
[22] 1990-01-24  
[30] US (301202) 1989-01-24

---

[11] **2,008,968**  
[13] C  
[51] Int.Cl. 6B65H 3/00 6B65H 5/34  
**6B41K 3/48 6B41K 3/64**  
[25] EN  
[54] SINGLE REVOLUTION DRIVE SYSTEM INCLUDING A ROTARY TIMING CAM  
[54] SYSTEME D'ENTRAINEMENT A UN TOUR COMPORTANT UNE CAME DE DISTRIBUTION TOURNANTE  
[72] Nobile, John R., US  
[72] Toth, William D., US  
[72] Ross, William A., US  
[73] Pitney Bowes Inc., US  
[22] 1990-01-31  
[30] US (307,802) 1989-02-08

**Brevets canadiens délivrés  
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[11] **2,009,387**  
[13] C

[51] **Int.Cl. 6H01H 3/32**  
[25] EN  
[54] **INTERRUPTER SWITCH WITH SELECTIVE CIRCUIT-ISOLATING FEATURE**  
[54] **CONTACT D'INTERRUPTEUR AVEC POSSIBILITE D'ISOLEMENT SELECTIF DE CIRCUIT**  
[72] Rogers, Edward J., US  
[72] Chabala, Leonard V., US  
[72] Ramos, Joel A., US  
[73] S&C ELECTRIC COMPANY, US  
[22] 1990-02-06  
[30] US (07/331,216) 1989-03-30

---

[11] **2,012,777**  
[13] C

[51] **Int.Cl. 6C12N 15/10 6C07H 1/08 6C12Q 1/68**  
[25] EN  
[54] **PROCESS FOR ISOLATING NUCLEIC ACID**  
[54] **PROCEDE D'ISOLEMENT DES ACIDES NUCLEIQUES**  
[72] Boom, Willem R., NL  
[72] Lens, Peter F., NL  
[72] Kievits, Tim, NL  
[72] Adriaanse, Henriëtte M.A., NL  
[73] AKZO N.V., NL  
[22] 1990-03-22  
[30] NL (8900725) 1989-03-23

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[11] **2,014,210**  
[13] C

[51] **Int.Cl. 6C08F 18/00 6G02B 1/04**  
[25] EN  
[54] **VINYL CARBONATE AND VINYL CARBAMATE CONTACT LENS MATERIAL MONOMERS**  
[54] **CARBONATE DE VINYL ET MONOMERES DE CARBONATE DE VINYL POUR LA FABRICATION DES VERRES DE CONTACT**  
[72] Bambury, Ronald E., US  
[72] Seelye, David E., US  
[73] Bausch & Lomb Incorporated, US  
[22] 1990-04-09  
[30] US (346,204) 1989-05-02

---

[11] **2,009,660**  
[13] C

[51] **Int.Cl. 6E02C 1/06**  
[25] EN  
[54] **LOCK USING AIR CHAMBERS**  
[54] **ECLUSE A CHAMBRES A AIR**  
[72] Omachi, Toshikatsu, JP  
[73] Foundation of River & Basin Integrated Communications, Japan, JP  
[73] Omachi, Toshikatsu, JP  
[22] 1990-02-09  
[30] JP (1-239873) 1989-09-18

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[11] **2,013,824**  
[13] C

[51] **Int.Cl. 6B21D 25/00**  
[25] EN  
[54] **METHOD AND ARRANGEMENT FOR CONTINUOUS TENSION STRETCHING OF THIN STRIPS, PARTICULARLY METAL STRIPS**  
[54] **METHODE ET MONTAGE POUR RL FROMATE SOUS TENSION DE BANDES MINCES, NOTTAMENT METALLIQUES**  
[72] Noé, Oskar, DE  
[72] Noé Andreas, DE  
[72] Noé, Rolf, DE  
[73] BWG Bergwerk- und Walzwerk-Maschinenbau GmbH, DE  
[22] 1990-04-04  
[30] DE (P 39 12 676.5-14) 1989-04-18

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[11] **2,014,709**  
[13] C

[51] **Int.Cl. 6B65D 41/34**  
[25] EN  
[54] **TAMPER INDICATING CLOSURE HAVING A ROTARY SEAL**  
[54] **FERMETURE TEMOIN DE RUPTURE JOINT TOURNANT**  
[72] Beck, Terry E., US  
[72] Montgomery, Gary V., US  
[73] Sunbeam Plastics Corporation, US  
[22] 1990-04-17  
[30] US (435,261) 1989-11-13

---

[11] **2,012,280**  
[13] C

[51] **Int.Cl. 6H03L 7/08**  
[25] EN  
[54] **AUTOMATIC FREQUENCY CONTROL CIRCUIT**  
[54] **CIRCUIT DE COMMANDE AUTOMATIQUE DE FREQUENCE**  
[72] Satomi, Hideo, JP  
[73] Sanyo Electric Co., Ltd., JP  
[22] 1990-03-15  
[30] JP (1-65528) 1989-03-16

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[11] **2,014,109**  
[13] C

[51] **Int.Cl. 6B05D 7/26 6B05D 1/36**  
[25] EN  
[54] **COATED MATERIAL**  
[54] **MATERIAU ENDUIT**  
[72] Nambu, Toshiro, JP  
[72] Kato, Yasushi, JP  
[72] Furukawa, Hisao, JP  
[72] Kawagushi, Hirotoishi, JP  
[73] Kanegafuchi Kagaku Kogyo Kabushiki Kaisha, JP  
[22] 1990-04-06  
[30] JP (Hei-1-87734) 1989-04-06

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[11] **2,015,126**  
[13] C

[51] **Int.Cl. 6C23C 16/30 6C23C 16/46 6C23C 16/54**  
[25] EN  
[54] **PROCESS FOR DEPOSITING A CERAMIC COATING ON A FILAMENT**  
[54] **METHODE D'APPLICATION D'UNE COUCHE DE CERAMIQUE SUR UN FILAMENTS**  
[72] Gruber, Philip, DE  
[72] Kewney, Ashleigh Martin, GB  
[72] Shatwell, Robert Alan, GB  
[73] Secretary of State for Defence in Her Britannic Majesty's Government, GB  
[22] 1990-04-23  
[30] GB (8910181.0) 1989-05-04

Canadian Patents Issued  
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[11] **2,016,428**  
[13] C  
[51] **Int.Cl. 6E04B 7/16**  
[25] EN  
[54] **RADIAL EXPANSION/  
RETRACTION TRUSS STRUCTURES**  
[54] **FERMES EN TREILLIS  
DEPLOYABLES/REPLOYABLES**  
[72] Hoberman, Charles, US  
[73] Hoberman, Charles, US  
[22] 1990-05-09  
[30] US (505,804) 1990-04-06

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[11] **2,016,969**  
[13] C  
[51] **Int.Cl. 6A62B 17/04 6A42B 3/28  
6A41D 27/28**  
[25] EN  
[54] **VENTILATED HOOD FOR  
FIREFIGHTER**  
[54] **CAGOULE AEREE POUR  
POMPIER**  
[72] Grilliot, Mary I., US  
[72] Grilliot, William L., US  
[73] NORCROSS SAFETY PRODUCTS,  
L.L.C., US  
[22] 1990-05-16  
[30] US (07/358,155) 1989-05-26

---

[11] **2,017,321**  
[13] C  
[51] **Int.Cl. 6B65D 83/08**  
[25] EN  
[54] **SHEET DISPENSER**  
[54] **DISTRIBUTEUR DE FEUILLES**  
[72] Kirchhoff, Kenneth J., US  
[72] Windorski, David C., US  
[73] MINNESOTA MINING AND  
MANUFACTURING COMPANY, US  
[22] 1990-05-23  
[30] US (358,395) 1989-05-26

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[11] **2,018,345**  
[13] C  
[51] **Int.Cl. 6C12N 9/96 6C12N 9/18 6C12P  
7/40**  
[25] EN  
[54] **STABILIZATION OF CARBOXYL  
ESTERASE**  
[54] **STABILISATION DE LA  
CARBOXYL ESTERASE**  
[72] Van Der Laken, Cornelis J., NL  
[72] Mutsaers, Johanna H. G. M., NL  
[72] Quax, Wilhelmus J., NL  
[72] Broekhuizen, Cornelis P., NL  
[73] DSM N.V., NL  
[85] 1990-06-06  
[86] 1990-04-26 (PCT/NL90/00058)  
[87] (WO90/13635)  
[30] EP (89201107.3) 1989-04-28

---

[11] **2,019,235**  
[13] C  
[51] **Int.Cl. 6E05D 15/36**  
[25] EN  
[54] **MULTI-DIRECTIONAL RADIAL  
WHEEL TROLLEY AND TRACK FOR  
OPERABLE WALLS**  
[54] **SUPPORTS A GALETS  
ORIENTABLES ET RAIL POUR MURS  
ESCAMOTABLES**  
[72] Harris, Donald L., US  
[73] PANELFOLD, INC., US  
[22] 1990-06-18  
[30] US (379,186) 1989-07-13

---

[11] **2,021,661**  
[13] C  
[51] **Int.Cl. 6G01V 1/42**  
[25] EN  
[54] **METHOD AND SYSTEM FOR  
VERTICAL SEISMIC PROFILING BY  
MEASURING DRILLING VIBRATIONS**  
[54] **METHODE ET SYSTEME DE  
PROFILS DE VERTICAUX DE  
RECONNAISSANCE SISMIQUE PAR LA  
MESURE DES VIBRATIONS  
PRODUITES PAR LE FORAGE**  
[72] Bseisu, Amjad A., US  
[72] DiSiena, James P., US  
[72] Ng, Fred W., US  
[73] ATLANTIC RICHFIELD COMPANY,  
US  
[22] 1990-07-20  
[30] US (07/385,621) 1989-07-26

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[11] \* **2,023,086**  
[13] C  
[51] **Int.Cl. 6A44C 11/02**  
[25] EN  
[54] **SNAP CLOSURE DEVICE**  
[54] **BOUCHON A PRESSION**  
[72] Pignotti, Sandro, IT  
[73] Pignotti, Sandro, IT  
[22] 1990-08-10  
[30] IT (16306 A/89) 1989-08-23

---

[11] **2,025,033**  
[13] C  
[51] **Int.Cl. 6B26F 1/44 6A61J 3/00**  
[25] EN  
[54] **ONE-STEP METHOD FOR  
FORMING A PRESSURE-SENSITIVE  
ADHESIVE TRANSDERMAL DRUG  
DEVICE AND APPARATUS THEREFOR**  
[54] **METHODE PAS-A-PAS POUR  
FABRIQUER UN DISPOSITIF  
AUTOADHESIF IMPREGNE D'UN  
MEDICAMENT A ADMINISTRATION  
TRANSDERMIQUE ET APPAREIL  
UTILISE A CETTE FIN**  
[72] Laprade, Ronald E., US  
[72] Sablotsky, Steven, US  
[73] NOVEN PHARMACEUTICALS, INC.,  
US  
[22] 1990-09-11  
[30] US (407,874) 1989-09-15

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[11] **2,025,200**  
[13] C  
[51] **Int.Cl. 6B60R 13/01**  
[25] EN  
[54] **VEHICLE CARGO BED LINER**  
[54] **GARNITURE DE COFFRE POUR  
VEHICULE SERVANT AU TRANSPORT  
DE MARCHANDISES**  
[72] Diaco, Joseph, US  
[72] Kennedy, Todd R., US  
[73] York Products, Inc., US  
[22] 1990-09-12  
[30] US (07/492,904) 1990-03-13

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**Brevets canadiens délivrés  
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[11] **2,026,106**  
[13] C

[51] **Int.Cl. 6H04J 3/06 6H04Q 11/00 6H04Q 7/28**  
[25] EN  
[54] **TELECOMMUNICATIONS SYSTEM**  
[54] **SYSTEME DE TELECOMMUNICATION**  
[72] Dudek, Michael Thomas, US  
[72] Goodings, Rupert, GB  
[72] Jones, Emlyn, GB  
[72] Odhams, David Crawford, GB  
[72] Proctor, Peter Nicholas, GB  
[73] Orbital Mobile Communications Limited, GB  
[73] GPT Limited, GB  
[73] Kenwood Corporation, JP  
[73] Northern Telecom Limited, CA  
[73] British Telecommunications Public Limited Company, GB  
[73] LUCENT TECHNOLOGIES WIRELESS LIMITED, GB  
[85] 1990-09-25  
[86] 1990-01-26 (PCT/GB90/00120)  
[87] (WO90/09073)  
[30] GB (8901756.0) 1989-01-27  
[30] GB (8901823.8) 1989-01-27

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[11] **2,026,107**  
[13] C

[51] **Int.Cl. 6H04J 3/06 6H04Q 7/22**  
[25] EN  
[54] **TECHNIQUE FOR TIME-DIVISION DUPLEX CORDLESS TELECOMMUNICATION**  
[54] **TECHNIQUE DE TELECOMMUNICATIONS EN MODE DUPLEX PAR REPARTITION DANS LE TEMPS POUR APPAREILS SANS CORDON**  
[72] Barnes, Nigel Everard, GB  
[72] Albrow Richard, GB  
[72] Beesley, Graham Edgar, GB  
[72] Cant, Chris, GB  
[72] Crisp, Malcolm, GB  
[72] Dudek, Michael Thomas, US  
[72] Goodings, Rupert, GB  
[72] Odhams, David Crawford, GB  
[72] Proctor, Peter Nicholas, GB  
[72] Rodgers, Ian, GB  
[73] Orbital Mobile Communications Limited, GB  
[73] Northern Telecom Limited, CA  
[73] British Telecommunications Public Limited Company, GB  
[73] LUCENT TECHNOLOGIES WIRELESS LIMITED, GB  
[73] GPT Limited, GB  
[73] Kenwood Corporation, JP  
[85] 1990-09-25  
[86] 1990-01-26 (PCT/GB90/00117)  
[87] (WO90/09071)  
[30] GB (8901756.0) 1989-01-27  
[30] GB (8901823.8) 1989-01-27

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[11] **2,029,377**  
[13] C

[51] **Int.Cl. 6B05C 17/00**  
[25] FR  
[54] **DISPOSITIF APPLICATEUR D'UN PRODUIT LIQUIDE OU PATEUX SUR UNE SURFACE**  
[54] **LIQUID OR PASTE APPLICATION DEVICE**  
[72] Guéret, Jean-Louis H., FR  
[73] L'OREAL, FR  
[22] 1990-11-06  
[30] FR (89 15 781) 1989-11-30

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[11] **2,029,426**  
[13] C

[51] **Int.Cl. 6C10G 47/02 6C10G 65/12 6C10G 47/16**  
[25] EN  
[54] **PRODUCTION OF GASOLINE AND DISTILLATE FUELS FROM LIGHT CYCLE OIL**  
[54] **GAZOLINE ET MAZOUTS LEGERS PRODUITS A PARTIR D'HUILE LEGERE POUR CYCLES**  
[72] Derr, Walter R., Jr., US  
[72] Owens, Peter J., US  
[72] Sarli, Michael S., US  
[73] Mobil Oil Corporation, US  
[22] 1990-11-07  
[30] US (433,251) 1989-11-08

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[11] **2,027,547**  
[13] C

[51] **Int.Cl. 6C10M 107/10 6C10G 50/02**  
[25] EN  
[54] **NOVEL SYNTHETIC LUBE COMPOSITION AND PROCESS**  
[54] **NOUVELLE COMPOSITION LUBRIFIANTE SYNTHETIQUE ET PROCEDE D'OBTENTION**  
[72] Pelrine, Bruce P., US  
[73] Mobil Oil Corporation, US  
[85] 1990-10-11  
[86] 1990-02-15 (PCT/US90/00863)  
[87] (WO90/10050)  
[30] US (313,576) 1989-02-21

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[11] **2,029,881**  
[13] C

[51] **Int.Cl. 6C03B 37/014 6C03B 20/00**  
[25] EN  
[54] **A SINTERING FURNACE FOR THE PRODUCTION OF A QUARTZ PREFORM**  
[54] **UN FOUR DE FRITTAGE SERVANT A LA PRODUCTION D'EBAUCHE FAITE EN QUARTZ**  
[72] Habasaki, Toshimi, JP  
[72] Tsuchiya, Ichiro, JP  
[72] Ishikawa, Shinji, JP  
[72] Saito, Masahide, JP  
[73] Sumitomo Electric Industries, Ltd., JP  
[85] 1990-11-26  
[86] 1990-03-28 (PCT/JP90/00418)  
[87] (WO90/11974)  
[30] JP (76706/1989) 1989-03-30



Canadian Patents Issued  
August 31, 1999

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[11] **2,030,620**  
[13] C  
[51] **Int.Cl. 6H02J 3/04**  
[25] EN  
[54] **MARINE POWER Y-ADAPTER**  
[54] **RACCORD D'ALIMENTATION EN Y**  
[72] Romatzick, David H., Jr., US  
[72] Altena, Edgar, US  
[73] Hubbell Incorporated, US  
[22] 1990-11-22  
[30] US (494,498) 1990-03-16

---

[11] **2,033,064**  
[13] C  
[51] **Int.Cl. 6C01B 3/40 6H01M 8/06**  
[25] EN  
[54] **FUEL CELL POWER GENERATION SYSTEM**  
[54] **SYSTEME DE PRODUCTION D'ENERGIE A PILES A COMBUSTIBLES**  
[72] Okada, Osamu, JP  
[72] Tabata, Takeshi, JP  
[72] Masuda, Masataka, JP  
[72] Takami, Susumu, JP  
[72] Ippommatsu, Masamichi, JP  
[73] OSAKA GAS CO., LTD., JP  
[85] 1991-01-15  
[86] 1990-05-15 (PCT/JP90/00607)  
[87] (WO90/14305)  
[30] JP (123575/1989) 1989-05-16  
[30] JP (123420/1989) 1989-05-17  
[30] JP (125771/1989) 1989-05-18

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[11] **2,033,447**  
[13] C  
[51] **Int.Cl. 6A61K 38/06 6A61K 38/05 6A61K 31/195 6A61K 31/34 6A61K 7/40 6A61K 31/52 6A61K 31/70**  
[25] EN  
[54] **SYNERGISTIC COMBINATION FOR TREATING HERPES INFECTIONS**  
[54] **COMPLEXE SYNERGIQUE POUR LE TRAITEMENT DES INFECTIONS HERPETIQUES**  
[72] Déziel, Robert, CA  
[72] Guindon, Yvan, CA  
[73] BOEHRINGER INGELHEIM (CANADA) LTD./ BOEHRINGER INGELHEIM (CANADA), CA  
[22] 1990-12-31

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[11] **2,036,416**  
[13] C  
[51] **Int.Cl. 6H05B 3/44**  
[25] FR  
[54] **GENERATEUR ELECTROTHERMIQUE POUR LE CHAUFFAGE DE LIQUIDE, AVEC UN RUBAN ELECTRIQUEMENT RESISTANT SPIRALE SUR UN TUBE TRAVERSE PAR LE LIQUIDE**  
[54] **THERMOELECTRIC GENERATOR FOR HEATING LIQUIDS**  
[72] Girault, Yves, FR  
[73] COMPAGNIE GENERALE DE CHAUFFE, FR  
[22] 1991-02-15  
[30] FR (90 01884) 1990-02-16

---

[11] **2,040,320**  
[13] C  
[51] **Int.Cl. 6F16L 19/00**  
[25] EN  
[54] **SEALING RING FOR USE IN A PIPE COUPLING**  
[54] **ANNEAU D'ETANCHEITE DESTINE A UN RACCORD POUR TUYAUX**  
[72] Leeuwenburg, Ewout, NL  
[72] Van Kooij, Robert Justus, NL  
[73] NYLOPLAST EUROPE B.V., NL  
[22] 1991-04-12  
[30] NL (9000881) 1990-04-12

---

[11] **2,041,247**  
[13] C  
[51] **Int.Cl. 6F25D 31/00**  
[25] EN  
[54] **COOLING APPARATUS FOR ELECTRONIC EQUIPMENT**  
[54] **APPAREIL DE REFROIDISSEMENT POUR MATERIEL ELECTRONIQUE**  
[72] Hosaka, Tadao, JP  
[73] NEC Corporation, JP  
[22] 1991-04-25  
[30] JP (2-110993) 1990-04-26

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[11] **2,042,247**  
[13] C  
[51] **Int.Cl. 6G08B 17/10 6G08B 29/04 6G08B 29/26**  
[25] EN  
[54] **ALARM CONDITION DETECTING METHOD AND APPARATUS**  
[54] **METHODE ET APPAREIL DE DETECTION DE SITUATION D'ALARME**  
[72] Stanley, Lawrence G., US  
[72] Motyka, Charles J., US  
[72] Farley, Robert W., US  
[73] Simplex Time Recorder Co., US  
[22] 1991-05-09  
[30] US (525,281) 1990-05-17

---

[11] **2,042,408**  
[13] C  
[51] **Int.Cl. 6A61B 10/00 6A61B 19/00 6A61B 17/30**  
[25] FR  
[54] **INSTRUMENT POUR LA MANUTENTION DE BIOPSIES ET DE PRELEVEMENTS**  
[54] **APPARATUS FOR HANDLING OF BIOPSIES AND SAMPLES**  
[72] Gilliard, Rene, CH  
[73] Bredam Medical Distribution S.A., CH  
[85] 1991-05-27  
[86] 1990-09-26 (PCT/CH90/00228)  
[87] (WO91/04709)  
[30] CH (3504/89-1) 1989-09-27  
[30] CH (2557/90-0) 1990-08-06

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[11] **2,042,476**  
[13] C  
[51] **Int.Cl. 6C09J 161/10 6C09J 197/00**  
[25] EN  
[54] **FAST CURE AND PRE-CURE RESISTANT CROSS-LINKED PHENOL-FORMALDEHYDE ADHESIVES AND METHODS OF MAKING SAME**  
[54] **ADHESIFS PHENOLIQUES RETICULES RESISTANTS PRECUIITS ET A DURCISSEMENT RAPIDE ET METHODE DE PRODUCTION CONNEXE**  
[72] Calve, Louis R., CA  
[73] Forintek Canada Corp., O1  
[22] 1991-05-13

**Brevets canadiens délivrés  
31 août 1999**

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[11] **2,045,983**  
[13] C

[51] **Int.Cl. 6B01D 53/94**  
[25] EN  
[54] **METHOD FOR CLEANING  
ENGINE EXHAUST GAS**  
[54] **METHODE DE NETTOYAGE DE  
GAZ D'ÉCHAPPEMENT DE MOTEURS**  
[72] Serizawa, Satoru, JP  
[72] Kaneko, Shozo, JP  
[72] Imamoto, Toshihiko, JP  
[72] Iida, Kozo, JP  
[72] Kobayashi, Norihisa, JP  
[73] MITSUBISHI JUKOGYO KABUSHIKI  
KAISHA, JP  
[22] 1991-06-28  
[30] JP (172642/1990) 1990-07-02

---

[11] **2,046,295**  
[13] C

[51] **Int.Cl. 6C07C 5/22 6C07C 11/02  
6C10M 101/02 6C07C 9/22**  
[25] EN  
[54] **PROCESS FOR PRODUCING LUBE  
OIL FROM OLEFINS BY  
ISOMERIZATION OVER A  
SILICOALUMINOPHOSPHATE  
CATALYST**  
[54] **PROCEDE DE PRODUCTION  
D'HUILES LUBRIFIANTES A PARTIR  
D'OLEFINES PAR ISOMERISATION  
SUR CATALYSEUR DE  
SILICOALUMINOPHOSPHATE**  
[72] Miller, Stephen J., US  
[73] Chevron Research and Technology  
Company, US  
[85] 1991-08-07  
[86] 1990-02-20 (PCT/US90/00813)  
[87] (WO90/09362)  
[30] US (311,972) 1989-02-17

---

[11] **2,046,395**  
[13] C

[51] **Int.Cl. 6F21M 7/00 6F21V 29/00**  
[25] EN  
[54] **COMPOSITE HEADLAMP VENT  
DEVICE**  
[54] **PHARE-EVENT COMBINE**  
[72] Nagengast, William Emil, US  
[72] Mellinger, James Steven, US  
[72] McMahan, David Ray, US  
[73] GUIDE CORPORATION, US  
[22] 1991-07-05  
[30] US (07/575,757) 1990-08-31

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[11] **2,047,362**  
[13] C

[51] **Int.Cl. 6B01J 8/24 6C10K 1/04 6F28C  
3/16 6C10K 1/20 6B01D 46/38**  
[25] EN  
[54] **PROCESS OF COOLING HOT  
PROCESS GASES**  
[54] **PROCEDE DE  
REFROIDISSEMENT DE GAZ DE  
PROCEDE CHAUDS**  
[72] Hirsch, Martin, DE  
[72] Frank, Wolfgang, DE  
[72] Heil, Manfred, DE  
[73] Metallgesellschaft Aktiengesellschaft,  
DE  
[22] 1991-07-18  
[30] DE (P 40 23 060.0) 1990-07-20

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[11] **2,047,439**  
[13] C

[51] **Int.Cl. 6G06F 11/00**  
[25] EN  
[54] **FAULT DIAGNOSIS DEVICE**  
[54] **DISPOSITIF SERVANT A  
DIAGNOSTIQUER LES  
DEFAILLANCES**  
[72] Hori, Satoshi, JP  
[72] Omori, Teruyo, JP  
[72] Sakagami, Makoto, JP  
[73] MITSUBISHI DENKI KABUSHIKI  
KAISHA, JP  
[22] 1991-07-22  
[30] JP (2-198273) 1990-07-24

---

[11] **2,052,736**  
[13] C

[51] **Int.Cl. 6B65B 11/22 6B65B 25/14**  
[25] EN  
[54] **METHOD OF AND APPARATUS  
FOR MAKING PACKAGES**  
[54] **METHODE ET APPAREIL DE  
FABRICATION D'EMBALLAGES**  
[72] Kovacs, Lloyd, US  
[73] PAPER CONVERTING MACHINE  
COMPANY, US  
[22] 1991-10-03  
[30] US (07/592,776) 1990-10-04

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[11] **2,054,960**  
[13] C

[51] **Int.Cl. 6F42B 5/045 6F42B 10/06**  
[25] EN  
[54] **FORWARD CONTROL TUBE  
WITH SEQUENCED IGNITION**  
[54] **TUBE A REGLAGE AVANT  
D'ALLUMAGE SEQUENTIEL**  
[72] Warren, John B., US  
[72] Broden, David E., US  
[73] ALLIANT TECHSYSTEMS INC., US  
[22] 1991-11-05  
[30] US (07/613,256) 1990-11-14

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[11] **2,055,430**  
[13] C

[51] **Int.Cl. 6G01N 33/72 6G01N 33/53**  
[25] EN  
[54] **GLYCOSYLATED  
HAEMOGLOBIN ASSAY**  
[54] **DOSAGE DE L'HEMOGLOBINE  
GLYCOSYLEE**  
[72] Sundrehagen, Erling, NO  
[73] Axis Biochemicals ASA, NO  
[85] 1991-11-12  
[86] 1990-05-11 (PCT/EP90/00820)  
[87] (WO90/13818)  
[30] NO (89.1929) 1989-05-11  
[30] NO (90/00004) 1990-01-04

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[11] **2,055,542**  
[13] C

[51] **Int.Cl. 6C12N 15/55 6C07K 19/00  
6C12P 21/02 6C12N 15/58 6C12N 15/62  
6C12N 9/64 6C12N 15/64 6C12N 15/81**  
[25] EN  
[54] **PICHIA PASTORIS ACID  
PHOSPHATASE GENE**  
[54] **GENE DE LA PHOSPHATASE  
ACIDE DE PICHIA PASTORIS**  
[72] Buckholz, Richard G., US  
[73] RESEARCH CORPORATION  
TECHNOLOGIES, INC., US  
[22] 1991-11-14  
[30] US (07/627,539) 1990-12-14

---

Canadian Patents Issued  
August 31, 1999

[11] 2,056,117  
[13] C

[51] **Int.Cl. 6A47L 9/28**  
[25] EN  
[54] **VACUUM CLEANER**  
[54] **ASPIRATEUR**  
[72] Moro, Masaru, JP  
[72] Matsuyo, Tadashi, JP  
[72] Yamaguchi, Seiji, JP  
[73] **MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD., JP**  
[22] 1991-11-25  
[30] JP (2-323679) 1990-11-26

[11] 2,057,217  
[13] C

[51] **Int.Cl. 6B09C 1/02**  
[25] EN  
[54] **A PROCESS FOR THE DECONTAMINATION OF TOXIC, HEAVY-METAL CONTAINING SOILS**  
[54] **PROCEDE DE DECONTAMINATION DE SOLS CONTENANT DES METAUX LOURDS, TOXIQUES**  
[72] Holbein, Bruce Edward, CA  
[72] Kidby, Denis Keith, CA  
[73] **SURINI INTERNATIONAL LTD., IE**  
[22] 1991-12-06  
[30] AU (PK3822) 1990-12-11

[11] 2,057,552  
[13] C

[51] **Int.Cl. 6E01B 29/06**  
[25] EN  
[54] **TIE REPLACER**  
[54] **VEHICULE DE REMPLACEMENT DE TRAVERSES DE CHEMIN DE FER**  
[72] Glomski, Krzysztof Edmund, US  
[72] Newman, G. Robert, US  
[72] Madison, Harry, US  
[73] **Harsco Corporation, US**  
[22] 1991-12-12  
[30] US (756,984) 1991-09-09

[11] 2,059,642  
[13] C

[51] **Int.Cl. 6A01N 63/04**  
[25] EN  
[54] **MYCONEMATICIDE**  
[54] **MYCONEMATICIDE**  
[72] Williams, Keith L., AU  
[72] Davidé, Romulo, PH  
[73] **Australian Technological Innovation Corporation (The), AU**  
[85] 1992-01-29  
[86] 1990-08-02 (PCT/AU90/00325)  
[87] (WO91/02051)  
[30] AU (PJ 5591) 1989-08-03  
[30] AU (PJ 7124) 1989-10-30

[11] 2,061,074  
[13] C

[51] **Int.Cl. 6F16J 15/54**  
[25] EN  
[54] **FLOATING LABYRINTH SEAL INCLUDING METAL BAND WITH CARBON RING ENGAGING SURFACE**  
[54] **JOINT A LABYRINTHE FLOTTANT, Y COMPRIS UNE BANDE METALLIQUE ET SURFACE DE CONDUITE AVEC ANNEAU DE CARBONE**  
[72] Pondelick, Mark A., US  
[72] Kemp, James M., US  
[73] **Rexnord Corporation, US**  
[22] 1992-02-12  
[30] US (677,156) 1991-03-29

[11] 2,061,894  
[13] C

[51] **Int.Cl. 6H04N 9/12 6H04N 9/73**  
[25] EN  
[54] **COLOR TEMPERATURE SELECTOR AND METHOD OF SELECTING COLOR TEMPERATURE**  
[54] **SELECTEUR DE LA TEMPERATURE DES COULEURS, ET METHODE A SUIVRE**  
[72] Kato, Hiroshi, JP  
[73] **MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD., JP**  
[22] 1992-02-26  
[30] JP (03-034088) 1991-02-28

[11] 2,062,597  
[13] C

[51] **Int.Cl. 6A61B 17/86**  
[25] EN  
[54] **AUXILIARY MEANS FOR FASTENING A CAPPING ON BONE TISSUE OR THE LIKE**  
[54] **ELEMENTS AUXILIAIRES POUR FIXER UNE COURONNE SUR UN TISSU OSSEUX OU AUTRE TISSU SEMBLABLE**  
[72] Buser, Daniel, CH  
[72] Sutter, Franz, CH  
[72] Mundwiler, Ulrich, CH  
[73] **Institut Straumann AG, CH**  
[22] 1992-03-10  
[30] CH (720/91) 1991-03-11

[11] 2,063,857  
[13] C

[51] **Int.Cl. 6B05D 1/02 6B05D 7/24**  
[25] EN  
[54] **METHOD FOR ENVIRONMENTALLY BENIGN PAINT SPRAYING WITH AN AIR-DRYING LACQUER DISSOLVED, EMULGATED OR DISPERSED IN WATER**  
[54] **METHODE PEU DOMMAGEABLE POUR L'ENVIRONNEMENT DE PEINTURE PAR PULVERISATION AVEC UN VERNIS-LAQUE SECHANT A L'AIR DISSOUS, EMULTIONNE OU DISPERSE DANS L'EAU**  
[72] Wepf, Hans-Peter, CH  
[73] **Unicolor AG, CH**  
[22] 1992-03-24  
[30] CH (01 052/91-5) 1991-04-09

[11] 2,064,876  
[13] C

[51] **Int.Cl. 6A47C 23/06 6A47C 23/30**  
[25] FR  
[54] **SOMMIER DE LITERIE**  
[54] **BED BASE**  
[72] **DE GELIS, ALAIN, FR**  
[72] De Gelis, Christian, FR  
[73] **DE GELIS, ALAIN, FR**  
[85] 1992-02-19  
[86] 1991-06-27 (PCT/FR91/00511)  
[87] (WO92/00030)  
[30] FR (90 08130) 1990-06-27

**Brevets canadiens délivrés  
31 août 1999**

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[11] **2,067,983**  
[13] C

[51] **Int.Cl. 6C08L 31/02 6C09J 131/02 6C09J 129/04 6C08L 29/04 6C09J 133/24 6C08L 33/24 6D04H 1/58**  
[25] EN  
[54] **FORMALDEHYDE-FREE  
CROSSLINKING EMULSION  
POLYMER SYSTEMS BASED ON  
VINYL ESTER  
DIALKOXYHYDROXYETHYL  
ACRYLAMIDE CO-AND  
TERPOLYMERS**  
[54] **COPOLYMERES ET  
TERPOLYMERES D'EMULSION A  
BASE D'ESTER VINYLIQUE ET DE  
DIALCOXYHYDROXYETHYLACRYLA  
MIDE, EXEMPTS DE  
FORMALDEHYDE, AGENTS DE  
RETICULATION**  
[72] Hallam, Malcolm F., US  
[72] Kukkala, Pravin K., US  
[72] Chandran, Rama S., US  
[72] Iovine, Carmine P., US  
[72] Mudge, Paul R., US  
[72] Leighton, John C., US  
[73] ABLESTIK LABORATORIES, US  
[22] 1992-05-05  
[30] US (07/703,931) 1991-05-22

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[11] **2,069,365**  
[13] C

[51] **Int.Cl. 6H04N 5/21**  
[25] EN  
[54] **VIDEO SIGNAL GRADATION  
CORRECTOR**  
[54] **CORRECTEUR DE GRADATION  
DE SIGNAUX VIDEO**  
[72] Tsuji, Toshiaki, JP  
[72] Kageyama, Atsuhisa, JP  
[72] Imai, Kiyoshi, JP  
[73] MATSUSHITA ELECTRIC  
INDUSTRIAL CO., LTD., JP  
[22] 1992-05-25  
[30] JP (03-123647) 1991-05-28  
[30] JP (03-123648) 1991-05-28

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[11] **2,069,374**  
[13] C

[51] **Int.Cl. 6C07C 401/00 6C07D 309/12 6C07F 7/18 6C07D 307/20 6C07F 9/53**  
[25] EN  
[54] **SYNTHESIS OF 19-NOR VITAMIN  
D COMPOUNDS**  
[54] **SYNTHESE DE COMPOSES DE  
VITAMINE D 19-NOR**  
[72] DeLuca, Hector F., US  
[72] Schnoes, Heinrich K., US  
[72] Perlman, Kato L., US  
[72] Swenson, Rolf E., US  
[73] Wisconsin Alumni Research Foundation, US  
[22] 1992-05-25  
[30] US (705,917) 1991-05-28

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[11] **2,069,542**  
[13] C

[51] **Int.Cl. 6F17D 1/02**  
[25] EN  
[54] **UNDERGROUND PIPE STORAGE  
LOOP**  
[54] **CONDUIT SOUTERRAIN EN  
BOUCLE POUR LE STOCKAGE  
D'HYDROCARBURES**  
[72] Gurtler, William, CA  
[72] Masseur, Michael John, CA  
[72] McKay, Ronald W., CA  
[73] Home Oil Company Limited, CA  
[22] 1992-05-26

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[11] **2,072,905**  
[13] C

[51] **Int.Cl. 6B01D 53/053**  
[25] EN  
[54] **PROCESS FOR PRODUCING  
OXYGEN ENRICHED PRODUCT  
STREAM**  
[54] **PROCEDE POUR LA  
PRODUCTION RAPIDE DE PRODUITS  
ENRICHIS D'OXYGENE**  
[72] Hirooka, Eiji, JP  
[72] Wheatland, Jeremy Paul, GB  
[72] Doong, Shain-Jer, US  
[73] BOC Group, Inc. (The), US  
[22] 1992-07-02  
[30] US (07/724,672) 1991-07-02

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[11] **2,073,785**  
[13] C

[51] **Int.Cl. 6C08F 4/642 6C08F 10/02 6C08F 4/658**  
[25] EN  
[54] **COMPONENTS AND CATALYSTS  
FOR THE POLYMERIZATION OF  
ETHYLENE**  
[54] **CONSTITUANTS ET  
CATALYSEURS DE LA  
POLYMERISATION DE L'ETHYLENE**  
[72] Cuffiani, Illaro, IT  
[72] Zucchini, Umberto, IT  
[73] MONTELL NORTH AMERICA INC., US  
[22] 1992-07-14  
[30] IT (MI 91 A 001961) 1991-07-15

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[11] **2,074,167**  
[13] C

[51] **Int.Cl. 6G05F 1/455**  
[25] EN  
[54] **SOLID STATE CURRENT  
CONTROLLED INTERRUPTION  
SYSTEM**  
[54] **SYSTEME DE COUPURE A  
SEMICONDUCTEURS COMMANDE  
PAR LE COURANT**  
[72] Studtmann, George H., US  
[72] Ward, Donald H., US  
[73] Square D Company, US  
[85] 1992-07-17  
[86] 1991-11-27 (PCT/US91/08959)  
[87] (WO92/09943)  
[30] US (619,844) 1990-11-29

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[11] **2,075,104**  
[13] C

[51] **Int.Cl. 6E21D 9/12 6E21D 9/14**  
[25] FR  
[54] **PROCEDE ET DISPOSITIF  
D'EXPLOITATION DE GISEMENT  
SOUTERRAIN PAR TUNNELIER**  
[54] **PROCESS AND DEVICE FOR THE  
EXPLOITATION OF SUBTERRANEAN  
DEPOSIT BY MEANS OF A TUNNEL  
BORER**  
[72] Nancy, Jean Luc, FR  
[73] Compagnie Générale des Matières  
Nucléaires Société Anonyme, FR  
[22] 1992-08-03  
[30] FR (91 10135) 1991-08-08

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Canadian Patents Issued  
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[11] 2,075,482  
[13] C

[51] Int.Cl. 6C07C 31/08 6A61K 31/18  
[25] EN  
[54] SULFONANILIDE DERIVATIVES  
AND MEDICINE  
[54] DERIVES DE SULFOANILIDE ET  
MEDICAMENT  
[72] Morino, Akira, JP  
[72] Morita, Iwao, JP  
[72] Tada, Shin-Ichi, JP  
[73] Nippon Shinyaku Co., Ltd., JP  
[85] 1992-08-06  
[86] 1991-02-06 (PCT/JP91/00138)  
[87] (WO91/12236)  
[30] JP (27675/1990) 1990-02-07  
[30] JP (136360/1990) 1990-05-25  
[30] JP (278041/1990) 1990-10-16

[11] 2,076,765  
[13] C

[51] Int.Cl. 6G03G 15/06 6G03G 13/01  
6G03G 15/01 6G03G 13/06 6B41J 2/41  
[25] EN  
[54] ESV READINGS OF TONER TEST  
PATCHES FOR ADJUSTING IRD  
READINGS OF DEVELOPED TEST  
PATCHES  
[54] LECTURE DE TONER AU MOYEN  
D'UN VOLTMETRE  
ELECTROSTATIQUE POUR LA  
DENSITOMETRIE INFRAROUGE  
[72] Scheuer, Mark A., US  
[72] MacDonald, Daniel W., US  
[73] XEROX CORPORATION, US  
[22] 1992-08-25  
[30] US (755,234) 1991-09-05

[11] 2,078,132  
[13] C

[51] Int.Cl. 6C12Q 1/68  
[25] EN  
[54] A PROCESS FOR  
DISTINGUISHING NUCLEIC ACIDS ON  
THE BASIS OF NUCLEOTIDE  
DIFFERENCES  
[54] UN PROCEDE PERMETTANT DE  
DISTINGUER LES ACIDES  
NUCLEIQUES A PARTIR DE  
DIFFERENCES DANS LA  
COMPOSITION EN NUCLEOTIDES  
[72] Tingey, Scott Valray, US  
[72] Livak, Kenneth James, US  
[72] Rafalski, Jan Antoni, US  
[72] Williams, John Gregory Kelly, US  
[73] DU PONT (E. I.) DE NEMOURS AND  
COMPANY, US  
[85] 1992-09-11  
[86] 1991-02-12 (PCT/US91/00841)  
[87] (WO91/14001)  
[30] US (07/494,258) 1990-03-14

[11] 2,076,009  
[13] C

[51] Int.Cl. 6A61M 25/01 6A61M 1/32  
[25] EN  
[54] SYSTEM AND METHOD FOR  
OXYGENATION OF THE HEART  
USING SUBPERICARDIAL FLUIDS  
[54] SYSTEME ET METHODE  
D'OXYGENATION DU COEUR AU  
MOYEN DE LIQUIDES  
SUBPERICARDIQUES  
[72] VanDeripe, Donald R., US  
[73] MALLINCKRODT INC., US  
[85] 1992-08-13  
[86] 1991-12-13 (PCT/US91/09349)  
[87] (WO92/10221)  
[30] US (627,178) 1990-12-14  
[30] US (684,421) 1991-04-12

[11] 2,076,925  
[13] C

[51] Int.Cl. 6G01B 7/28 6G11B 9/00  
[25] EN  
[54] INFORMATION PROCESSING  
APPARATUS AND SCANNING TUNNEL  
MICROSCOPE  
[54] APPAREIL DE TRAITEMENT  
D'INFORMATIONS ET MICROSCOPE  
A EFFET TUNNEL  
[72] Hatanaka, Katsunori, JP  
[72] Oguchi, Takahiro, JP  
[72] Sakai, Kunihiko, JP  
[72] Yamano, Akihiko, JP  
[72] Shido, Shunichi, JP  
[73] Canon Kabushiki Kaisha, JP  
[22] 1992-08-26  
[30] JP (3-242324) 1991-08-29  
[30] JP (3-273288) 1991-09-24  
[30] JP (4-173331) 1992-06-30

[11] 2,078,437  
[13] C

[51] Int.Cl. 6G01L 1/26 6G01L 1/00  
[25] EN  
[54] TWO POINT LOAD CELL  
[54] CELLULE DE CHARGEMENT A  
DEUX ELEMENTS  
[72] Wirth, Johannes, CH  
[73] Digi Sens AG, CH  
[85] 1992-09-16  
[86] 1992-06-18 (PCT/CH92/00116)  
[87] (WO93/00575)  
[30] CH (PWG-911/178) 1991-06-24

[11] 2,076,385  
[13] C

[51] Int.Cl. 6G11B 20/10 6G11B 7/013  
6H04N 5/781 6H04N 5/85  
[25] EN  
[54] PROCESS FOR RECORDING AND/  
OR REPRODUCING DIGITAL DATA  
ON A RECORD CARRIER  
[54] METHODE D'ENREGISTREMENT  
ET DE LECTURE DE DONNEES  
NUMERIQUES SUR UN SUPPORT  
[72] Schröder, Ernst F., DE  
[73] DEUTSCHE THOMSON-BRANDT  
GmbH, DE  
[85] 1992-08-19  
[86] 1991-03-02 (PCT/EP91/00389)  
[87] (WO91/14265)  
[30] DE (P 40 07 814.0) 1990-03-12

[11] 2,078,904  
[13] C

[51] Int.Cl. 6F27D 11/04  
[25] FR  
[54] ELECTRODE DE PAROI POUR  
FOUR METALLURGIQUE  
ELECTRIQUE A COURANT CONTINU  
[54] WALL ELECTRODE FOR DIRECT  
CURRENT ELECTRIC  
METALLURGICAL FURNACE  
[72] Destannes, Philippe, FR  
[72] Grosjean, Jean-Claude, FR  
[72] Maurer, Ghislain, FR  
[72] Lebrun, Christian, FR  
[73] Unimetal, FR  
[22] 1992-09-23  
[30] FR (91 12 001) 1991-09-30

**Brevets canadiens délivrés  
31 août 1999**

---

[11] **2,082,612**  
[13] C

[51] **Int.Cl. 6B60R 13/01 6F16B 21/00**  
[25] EN  
[54] **FASTENER FOR TRUCK BED LINER**  
[54] **DISPOSITIF DE FIXATION POUR DOUBLURE DE SOMMIER DE CAMION**  
[72] Kennedy, John W., US  
[73] York Products, Inc., US  
[22] 1992-11-10  
[30] US (07/793,626) 1991-11-18

---

[11] **2,083,810**  
[13] C

[51] **Int.Cl. 6H04N 1/04 6G06K 9/20 6H04N 1/23**  
[25] EN  
[54] **OPTICAL SCANNER AND PRINTER**  
[54] **LECTEUR OPTIQUE ET IMPRIMANTE**  
[72] Taylor, William H., US  
[73] KÖLLMORGEN CORPORATION, US  
[22] 1992-11-25  
[30] US (07/805,575) 1991-12-10

---

[11] **2,084,982**  
[13] C

[51] **Int.Cl. 6B65D 75/58 6B65D 43/14**  
[25] EN  
[54] **PACKAGE FOR PAPER HANDKERCHIEFS**  
[54] **EMBALLAGE DESTINE A DES MOUCHOIRS EN PAPIER**  
[72] Focke, Heinz, DE  
[72] Balmer, Oskar, DE  
[73] Focke & Co. (G.m.b.H. & Co.), DE  
[22] 1992-12-09  
[30] DE (P 41 41 518.3) 1991-12-16

---

[11] **2,083,059**  
[13] C

[51] **Int.Cl. 6A61M 1/34**  
[25] EN  
[54] **METHOD AND DEVICE FOR FILTERING PLASMA**  
[54] **METHODE ET DISPOSITIF POUR LE FILTRAGE DU PLASMA**  
[72] Kawamura, Akio, JP  
[72] Yonekawa, Motoki, JP  
[72] Sakashita, Eiji, JP  
[72] Kamogawa, Hiroshi, JP  
[73] Otsuka Pharmaceutical Factory, Inc., JP  
[85] 1992-11-16  
[86] 1992-03-24 (PCT/JP92/00353)  
[87] (WO92/17220)  
[30] JP (61747/1991) 1991-03-26

---

[11] **2,083,929**  
[13] C

[51] **Int.Cl. 6D06F 1/02**  
[25] EN  
[54] **PLASTIC WASHTUB**  
[54] **BAIGNOIRE EN MATIERE PLASTIQUE**  
[72] Cargnel, Giuseppe, IT  
[72] Durazzani, Piero, IT  
[73] ELECTROLUX ZANUSSI S.p.A., IT  
[22] 1992-11-26  
[30] IT (PN91 A 000040) 1991-11-27

---

[11] **2,085,359**  
[13] C

[51] **Int.Cl. 6C09K 5/02 6F24J 1/00**  
[25] EN  
[54] **REUSABLE WARMERS OF THE TYPE EMPLOYING A SUPER-COOLED SOLUTION AND AN ACTIVATOR**  
[54] **RECHAUFFEURS REUTILISABLES DU GENRE EMPLOYANT UNE SOLUTION SURFONDUE ET UN ACTIVATEUR**  
[72] Manker, Charles F., US  
[73] Prism Enterprises, Inc., US  
[85] 1992-12-14  
[86] 1991-06-14 (PCT/US91/04259)  
[87] (WO91/19946)  
[30] US (538,838) 1990-06-15

---

[11] **2,083,803**  
[13] C

[51] **Int.Cl. 6B01J 13/00 6B01F 17/00 6F17D 1/16 6C10L 1/32**  
[25] EN  
[54] **BIMODAL EMULSION AND ITS METHOD OF PREPARATION**  
[54] **EMULSION BIMODALE ET METHODE DE PREPARATION**  
[72] Sanchez, Gerardo, VE  
[72] Rivas, Hercilio, VE  
[72] Nunez, Gustavo, VE  
[73] Intevp, S.A., VE  
[22] 1992-11-25  
[30] US (801,472) 1991-12-02

---

[11] **2,084,304**  
[13] C

[51] **Int.Cl. 6C09D 175/04 6C25D 13/06 6C09D 5/44**  
[25] EN  
[54] **PROCESS FOR COATING ELECTRICALLY CONDUCTIVE SUBSTRATES, AQUEOUS ENAMEL AND CROSSLINKING AGENT CONTAINING BLOCKED NCO GROUPS**  
[54] **PROCEDE DE REVETEMENT DE SUBSTRATS CONDUCTEURS, EMAIL AQUEUX ET AGENT RETICULANT RENFERMANT DES GROUPES NCO BLOQUES**  
[72] Ott, Günther, DE  
[72] Heimann, Ulrich, DE  
[72] Jouck, Walter, DE  
[72] Reiter, Udo, DE  
[72] Santure, David J., US  
[73] Basf Lacke + Farben Aktiengesellschaft, DE  
[85] 1992-12-01  
[86] 1991-05-31 (PCT/EP91/01011)  
[87] (WO91/18952)  
[30] DE (P 40 18 087.5) 1990-06-06

---

[11] **2,087,255**  
[13] C

[51] **Int.Cl. 6C12Q 1/60 6C07K 14/47 6G01N 33/92**  
[25] EN  
[54] **SOLID-PHASE PRECIPITATION ASSAY DEVICE AND METHOD**  
[54] **APPAREIL ET METHODE D'ESSAI DE PRECIPITATION EN PHASE SOLIDE**  
[72] Jones, Ronald M., US  
[73] Cholestech Corporation, US  
[85] 1993-01-13  
[86] 1991-07-15 (PCT/US91/05004)  
[87] (WO92/01498)  
[30] US (554,147) 1990-07-16  
[30] US (729,447) 1991-07-12

Canadian Patents Issued  
August 31, 1999

[11] **2,087,309**  
[13] C

[51] **Int.Cl. 6E05F 11/00 6E05F 11/10**  
[25] EN  
[54] **HANDLE AND COVER ASSEMBLY FOR A WINDOW OPERATOR**  
[54] **ENSEMBLE MANIVELLE ET COUVERCLE POUR LEVE-VITRE**  
[72] Nolte, Douglas A., US  
[72] Vetter, Gregory J., US  
[72] Best, Kenneth E., US  
[72] Krampotich, Dennis J., US  
[73] Truth Hardware Corporation,  
[22] 1993-01-14  
[30] US (882,625) 1992-05-13  
[30] US (001,270) 1993-01-07

[11] **2,087,633**  
[13] C

[51] **Int.Cl. 6H04Q 3/62**  
[25] EN  
[54] **ELECTRONIC EXCHANGE APPARATUS**  
[54] **CENTRAL ELECTRONIQUE**  
[72] Fujitsuka, Shuji, JP  
[72] Honbou, Shinichi, JP  
[73] Kabushiki Kaisha Toshiba, JP  
[22] 1993-01-20  
[30] JP (4-8370) 1992-01-21

[11] **2,087,813**  
[13] C

[51] **Int.Cl. 6B60P 1/43 6B65G 69/28 6B60P 1/44**  
[25] EN  
[54] **MOTOR DRIVEN TILTABLE CARGO DECK**  
[54] **TABLIER A CARGAISON, INCLINABLE ET ACTIONNE PAR UN MOTEUR**  
[72] Fenton, Barry, CA  
[73] Fenton, Barry, CA  
[22] 1993-01-21

[11] **2,088,185**  
[13] C

[51] **Int.Cl. 6F16K 17/04**  
[25] EN  
[54] **TWO LINE PILOT VALVE**  
[54] **VANNE PILOTE A DEUX CIRCUITS**  
[72] Johnson, Clarence William, CA  
[73] BARBER INDUSTRIES, INC., CA  
[22] 1993-02-05

[11] **2,091,776**  
[13] C

[51] **Int.Cl. 6A61K 9/127 6B01J 13/00**  
[25] EN  
[54] **LIPOSOME EXTRUSION PROCESS**  
[54] **METHODE D'EXTRUSION DES LIPOSOMES**  
[72] Coe, Royden M., US  
[72] Thies, Robert L., CA  
[72] Portnoff, Joel B., US  
[73] Liposome Company, Inc. (The), US  
[85] 1993-03-16  
[86] 1991-10-04 (PCT/US91/07272)  
[87] (WO92/05772)  
[30] US (593,200) 1990-10-05

[11] **2,092,096**  
[13] C

[51] **Int.Cl. 6A47C 7/36**  
[25] EN  
[54] **APPARATUS FOR PREVENTING WHIPLASH**  
[54] **DISPOSITIF ANTI-COUP DE FOUET CERVICAL**  
[72] Dellanno, Ronald P., US  
[72] Gualtier, Quentin E., US  
[73] Dellanno, Ronald P., US  
[85] 1993-03-19  
[86] 1991-09-19 (PCT/US91/06808)  
[87] (WO92/04847)  
[30] US (585,392) 1990-09-20

[11] **2,092,942**  
[13] C

[51] **Int.Cl. 6H04N 7/18 6B27B 27/00**  
[25] EN  
[54] **SAWMILL METHOD AND APPARATUS WITH MOVABLE SCANNING MEANS**  
[54] **METHODE ET APPAREIL DE SCIAGE AVEC MOYEN DE SCANNING OPTIQUE**  
[72] Carter, Mark L., US  
[72] Carman, George M., US  
[73] Jones, Aaron U., US  
[22] 1993-03-30  
[30] US (867,051) 1992-04-10  
[30] US (877,942) 1992-04-30

[11] **2,093,835**  
[13] C

[51] **Int.Cl. 6C08L 101/00 6C08L 51/04 6C08L 51/08**  
[25] EN  
[54] **THERMOPLASTIC RESIN COMPOSITIONS**  
[54] **COMPOSITIONS A BASE DE RESINE THERMOPLASTIQUE**  
[72] Kitazawa, Naoki, JP  
[72] Kikuta, Manabu, JP  
[72] Hotta, Hiroshi, JP  
[72] Nakayama, Yutaka, JP  
[72] Sumi, Hideyuki, JP  
[73] Dai-Ichi Kogyo Seiyaku Co., Ltd., JP  
[22] 1993-04-13  
[30] JP (4-90582) 1992-04-10  
[30] JP (4-186535) 1992-07-14

[11] **2,095,081**  
[13] C

[51] **Int.Cl. 6B22C 9/22 6B22C 9/02**  
[25] EN  
[54] **MOLD FOR PRODUCING THIN WALL CASTINGS BY GRAVITY POURING**  
[54] **MOULE POUR COULER PAR GRAVITE DES PIECES A PAROI MINCE**  
[72] Ryntz, Edward Frank Jr., US  
[72] Ramage, Robert Mark, US  
[72] Toth, Alexander John III, US  
[72] Druschitz, Alan Peter, US  
[73] GENERAL MOTORS CORPORATION, US  
[22] 1993-04-28  
[30] US (08/035,828) 1993-03-23  
[30] US (07/883,018) 1992-05-14

**Brevets canadiens délivrés  
31 août 1999**

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[11] **2,095,677**  
[13] C

[51] **Int.Cl. 6C08L 75/04 6B29C 67/20  
6C08G 18/50 6C08G 18/65**  
[25] EN  
[54] **PREPARATION OF RESILIENT  
ELASTOMERS CONTAINING BONDED  
URETHANE GROUPS OR URETHANE  
AND UREA GROUPS IN THE  
PRESENCE OF N-PERETHOXYLATED  
POLYOXYALKYLENE-POLYAMINES  
AS A FORMATIVE OMPONENT**  
[54] **PREPARATION D'ELASTOMERES  
RESILIENTS, CONTENANT DES  
GROUPE URETHANE OU DES  
GROUPE URETHANE ET UREE, EN  
PRESENCE DE POLYOXYALKYLENE-  
POLYAMINES PERETHOXYLEES EN  
N, COMME COMPOSANTE DE  
FORMATION**  
[72] Hinz, Werner, DE  
[72] Maletzko, Christian, DE  
[72] Chakrabarti, Sarbananda, DE  
[72] Becker, Johannes, DE  
[72] Bruchmann, Bernd, DE  
[73] BASF AKTIENGESELLSCHAFT, DE  
[22] 1993-05-06  
[30] DE (P 42 18 790.7) 1992-06-06

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[11] **2,095,928**  
[13] C

[51] **Int.Cl. 6C12Q 1/56 6G01N 33/564  
6G01N 33/86 6G01N 33/92**  
[25] EN  
[54] **LIPID-DEPENDENT DIAGNOSTIC  
ASSAYS**  
[54] **EPREUVES DE DIAGNOSTIC  
DEPENDANTS DES LIPIDES**  
[72] Janoff, Andrew S., US  
[72] Rauch, Joyce, CA  
[73] Liposome Company, Inc. (The), US  
[85] 1993-05-10  
[86] 1990-12-28 (PCT/US90/07688)  
[87] (WO92/10586)  
[30] US (623,340) 1990-12-07

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[11] **2,096,852**  
[13] C

[51] **Int.Cl. 6C02F 3/28**  
[25] EN  
[54] **IMPROVEMENTS IN  
FERMENTATION APPARATUS**  
[54] **APPAREIL POUR  
FERMENTATION AMELIORE**  
[72] Landine, Robert, CA  
[72] de Garie, Claude, CA  
[72] Cocci, Albert, CA  
[73] ADI LIMITED, CA  
[85] 1993-07-29  
[86] 1991-01-31 (PCT/CA91/00029)  
[87] (WO92/13806)

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[11] **2,098,407**  
[13] C

[51] **Int.Cl. 6C08L 33/00 6A61K 7/00  
6C09D 123/02 6C08L 23/02**  
[25] EN  
[54] **RESINOUS PARTICLES, METHOD  
FOR PRODUCTION THEREOF, AND  
USES THEREFOR**  
[54] **PARTICULES RESINEUSES,  
PROCEDE DE FABRICATION ET  
UTILISATEURS CONNEXES**  
[72] Toribuchi, Hironobu, JP  
[72] Urashima, Nobuaki, JP  
[72] Mori, Yoshikuni, JP  
[73] Nippon Shokubai Co., Ltd., JP  
[22] 1993-06-15  
[30] JP (4-156295) 1992-06-16  
[30] JP (4-172546) 1992-06-30

---

[11] **2,098,628**  
[13] C

[51] **Int.Cl. 6B23B 27/00**  
[25] EN  
[54] **INSERT FOR LIGHT FEED, LIGHT  
DEPTH OF CUT**  
[54] **PLAQUETTE AMOVIBLE POUR  
COUPES EFFECTUEES A FAIBLE  
VITESSE ET A FAIBLE PROFONDEUR**  
[72] Lowe, Tony M., US  
[72] Katbi, Karl, US  
[72] Bernadic, Thomas J., US  
[72] Patterson, John H., US  
[73] Valenite Inc., US  
[22] 1993-06-17  
[30] US (07/902,331) 1992-06-22

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[11] **2,098,772**  
[13] C

[51] **Int.Cl. 6H04L 9/12 6H04J 3/06 6H04L  
29/14**  
[25] EN  
[54] **METHOD AND APPARATUS FOR  
COMMUNICATING INTERLEAVED  
DATA**  
[54] **METHODE ET APPAREIL POUR  
LA TRANSMISSION DE DONNEES  
IMBRIQUEES**  
[72] Paik, Woo H., US  
[72] Fox, John M., US  
[72] Lery, Scott A., US  
[73] General Instrument Corporation, US  
[22] 1993-06-18  
[30] US (07/927,827) 1992-08-10

---

[11] **2,098,807**  
[13] C

[51] **Int.Cl. 6C02F 11/06**  
[25] EN  
[54] **WASTE TREATMENT PROCESS  
EMPLOYING OXIDATION**  
[54] **PROCEDE DE TRAITEMENT DES  
RESIDUS UTILISANT L'OXYDATION**  
[72] Rozich, Alan F., US  
[73] Environmental Resources Management,  
Inc., US  
[22] 1993-06-18  
[30] US (08/018,801) 1993-02-17

---

[11] **2,099,719**  
[13] C

[51] **Int.Cl. 6G06F 17/50**  
[25] EN  
[54] **SYSTEM AND METHOD FOR  
RENDERING BEZIER SPLINES**  
[54] **SYSTEME ET METHODE DE  
TRACAGE DE SPLINES DE BEZIER**  
[72] Goossen, James Andrew, US  
[72] Olynyk, Kirk O., US  
[73] MICROSOFT CORPORATION, US  
[22] 1993-06-29  
[30] US (07/909,055) 1992-07-02

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Canadian Patents Issued  
August 31, 1999

[11] 2,099,987  
[13] C

[51] Int.Cl. 6B01J 21/14 6C10G 11/05  
6B01J 29/06  
[25] EN  
[54] ACTIVE COMPONENT FOR  
CAPTURING BASIC NITROGEN IN  
CATALYTIC CRACKING CATALYSTS  
[54] ELEMENT ACTIF POUR CAPTER  
L'AZOTE CONTENU DANS LES  
CATALYSEURS UTILISES POUR LE  
CRAQUAGE  
[72] Corma Canos, Avelino, ES  
[72] Mocholi Castello, Francisco Andrés, ES  
[73] Consejo Superior Investigaciones  
Cientificas, ES  
[73] Universidad Politecnica Valencia, ES  
[85] 1993-07-06  
[86] 1992-11-06 (PCT/ES92/00073)  
[87] (WO93/09204)  
[30] ES (9102468) 1991-11-07

[11] 2,100,980  
[13] C

[51] Int.Cl. 6B41J 2/015  
[25] EN  
[54] RECORDING MEANS, INK JET  
RECORDING APPARATUS, AND  
RECOVERY METHOD  
[54] METHODE ET APPAREIL  
D'ENREGISTREMENT A JET D'ENCRE  
ET METHODE DE RECUPERATION DE  
L'ENCRE  
[72] Sugimoto, Hitoshi, JP  
[72] Nagoshi, Shigeyasu, JP  
[72] Hirabayashi, Hiromitsu, JP  
[72] Koitabashi, Noribumi, JP  
[72] Matsubara, Miyuki, JP  
[72] Gotoh, Fumihiko, JP  
[72] Uetsuki, Masaya, JP  
[73] Canon Kabushiki Kaisha, JP  
[22] 1993-07-21  
[30] JP (218368/1992) 1992-07-24

[11] 2,102,685  
[13] C

[51] Int.Cl. 6F16H 57/04 6F16H 48/04  
6F16H 48/12  
[25] EN  
[54] LUBRICANT PUMPING IN  
TANDEM DRIVE AXLES  
[54] POMPAGE DU LUBRIFIANT DANS  
DES PONTS TANDEMS  
[72] Kwasniewski, Dale Lee, US  
[73] Dana Corporation, US  
[22] 1993-11-08  
[30] US (982,170) 1992-11-24

[11] 2,102,986  
[13] C

[51] Int.Cl. 6E03D 1/14 6E03D 5/01  
[25] EN  
[54] PUMP OPERATED PLUMBING  
FIXTURE  
[54] APPAREIL DE PLOMBERIE  
ACTIONNE PAR UNE POMPE  
[72] Jaeckels, Norman J., US  
[72] Fiumefreddo, John A., US  
[72] Gray, Michael P., US  
[72] Kolar, Anton J., US  
[72] Mesum, Randy O., US  
[72] Tempas, Jeffrey F., US  
[73] Kohler Co., US  
[22] 1993-11-12  
[30] US (976,109) 1993-11-13

[11] 2,103,864  
[13] C

[51] Int.Cl. 6H05B 43/00 6H04N 7/18  
[25] EN  
[54] ENGINEERED LIGHTING SYSTEM  
FOR TDI INSPECTION  
[54] TECHNIQUE D'ECLAIRAGE  
POUR INSPECTION TDI  
[72] Cochran, Don W., US  
[72] Austin, James R., US  
[73] Pressco Technology, Inc., US  
[85] 1993-08-11  
[86] 1992-01-02 (PCT/US92/00108)  
[87] (WO92/15010)  
[30] US (658,093) 1991-02-20

[11] 2,106,411  
[13] C

[51] Int.Cl. 6B01D 9/02 6B01D 1/30  
[25] EN  
[54] PROCESS FOR CRYSTALLIZING  
MELT WITH ADIABATIC COOLING  
AND APPARATUS FOR THE SAME  
[54] PROCEDE DE CRISTALLISATION  
PAR REFROIDISSEMENT  
ADIABATIQUE ET APPAREIL  
CORRESPONDANT  
[72] Morita, Minoru, JP  
[72] Takegami, Keizo, JP  
[73] TSUKISHIMA KIKAI CO., LTD., JP  
[22] 1993-09-17

[11] 2,106,501  
[13] C

[51] Int.Cl. 6B32B 27/08 6B65D 81/24  
6B65D 65/40  
[25] EN  
[54] PACKAGE HAVING IMPROVED  
BARRIER PROPERTIES  
[54] CONDITIONNEMENT A  
PROPRIETES BARRIERE  
AMELIOREES  
[72] Anderson, George, US  
[73] PILLSBURY COMPANY (THE), US  
[22] 1993-09-20  
[30] US (07/950,903) 1992-09-24

[11] 2,106,601  
[13] C

[51] Int.Cl. 6A61B 17/068  
[25] EN  
[54] APPARATUS AND METHOD FOR  
APPLYING SURGICAL STAPLES TO  
ATTACH AN OBJECT TO BODY  
TISSUE  
[54] DISPOSITIF ET METHODE  
D'APPLICATION D'AGRAFES  
CHIRURGICALES POUR LA FIXATION  
D'OBJETS A UN TISSU CORPOREL  
[72] Green, David T., US  
[72] DeFonzo, Stephan A., US  
[72] Pennatto, Samson, US  
[72] Young, Wayne, US  
[73] United States Surgical Corporation,  
[22] 1993-09-21  
[30] US (07/950,425) 1992-09-23

[11] 2,106,775  
[13] C

[51] Int.Cl. 6B67D 5/42  
[25] EN  
[54] LIQUID DISPENSER ASSEMBLY  
WITH ADAPTOR  
[54] DISTRIBUTEUR DE LIQUIDE  
AVEC ADAPTEUR  
[72] Foster, Donald D., US  
[73] CONTINENTAL SPRAYERS  
INTERNATIONAL, INC., US  
[85] 1993-09-22  
[86] 1993-01-29 (PCT/US93/00899)  
[87] (WO93/14983)  
[30] US (829,759) 1992-01-31  
[30] US (984,876) 1992-12-02

**Brevets canadiens délivrés  
31 août 1999**

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[11] **2,106,841**  
[13] C

[51] **Int.Cl. 6B08B 3/02 6B08B 3/08 6B08B 9/093 6B08B 3/10**  
[25] EN  
[54] **SYSTEM FOR WASHING A TANK AND RECOVERING AND TREATING RESIDUAL TANK LIQUID AND METHOD OF OPERATING THE SYSTEM**  
[54] **SYSTEME DE LAVAGE DE RESERVOIR ET DE RECUPERATION-TRAITEMENT DE LIQUIDE RESIDUAIRE, ET METHODE DE CONDUITE DU SYSTEME**  
[72] Manabe, Nobuyuki, JP  
[72] Ando, Masaaki, JP  
[73] Taiho Industries Co., Ltd., JP  
[22] 1993-09-23  
[30] JP (4-277770) 1992-09-24  
[30] JP (5-28999) 1993-05-07  
[30] JP (5-169803) 1993-06-17

---

[11] **2,107,151**  
[13] C

[51] **Int.Cl. 6A61F 2/16**  
[25] EN  
[54] **INTRAOCULAR LENS WITH RESILIENT HAPTICS**  
[54] **CRISTALLIN A HAPTQUES ELASTIQUES**  
[72] Sherwood, Charles H., US  
[72] Chang, Shiao H., US  
[73] Iolab Corporation, US  
[22] 1993-09-28  
[30] US (953,406) 1992-09-29

---

[11] **2,107,189**  
[13] C

[51] **Int.Cl. 6G02C 7/02 6G02C 7/04**  
[25] EN  
[54] **OPHTHALMIC LENS WITH REDUCED EDGE GLARE**  
[54] **LENTILLE OPHTALMIQUE A REFLET PERIPHERIQUE REDUIT**  
[72] Woffinden, George Joseph, US  
[72] Fledderjohann, Michael Lee, US  
[73] IOLAB CORPORATION, US  
[22] 1993-09-28  
[30] US (952,388) 1992-09-28

---

---

[11] **2,107,194**  
[13] C

[51] **Int.Cl. 6G02B 26/10 6G02B 5/18**  
[25] EN  
[54] **BINARY DIFFRACTIVE OPTICAL ELEMENT SCANNER**  
[54] **SYSTEME DE BALAYAGE A ELEMENT DE DIFFRACTION OPTIQUE BINAIRE**  
[72] Harris, Ellis D., US  
[73] XEROX CORPORATION, US  
[22] 1993-09-28  
[30] US (989445) 1992-12-11

---

[11] **2,109,817**  
[13] C

[51] **Int.Cl. 6C07C 233/14**  
[25] EN  
[54] **PROCESS FOR PREPARING SERTRALINE**  
[54] **PROCEDE D'OBTENTION DE LA SERTRALINE**  
[72] Williams, Michael Trevelyan, GB  
[73] Pfizer Inc., US  
[85] 1993-11-23  
[86] 1992-07-03 (PCT/EP92/01497)  
[87] (WO93/01162)  
[30] GB (9114947.6) 1991-07-11

---

[11] **2,110,988**  
[13] C

[51] **Int.Cl. 6C12Q 1/68 6C07H 21/00 6C12N 15/10**  
[25] EN  
[54] **SEQUENCE-SPECIFIC BINDING POLYMERS FOR DUPLEX NUCLEIC ACIDS**  
[54] **POLYMERES PERMETTANT DE LIER DES PAIRES DE BASES A DES SITES SPECIFIQUES D'ACIDES NUCLEIQUES BICATENAIRES**  
[72] Summerton, James E., US  
[72] Weller, Dwight D., US  
[73] Antivirals Inc., US  
[85] 1993-12-08  
[86] 1992-06-18 (PCT/US92/05208)  
[87] (WO93/00352)  
[30] US (07/719,732) 1991-06-20

---

---

[11] **2,111,429**  
[13] C

[51] **Int.Cl. 6A47B 91/00**  
[25] EN  
[54] **DETACHABLE BED LEGS**  
[54] **PIEDS DE LIT AMOVIBLES**  
[72] McDonnell, Timothy J., US  
[72] Roggenkamp, Alvin W., US  
[73] A-1 MANUFACTURING CORPORATION, US  
[22] 1993-12-14  
[30] US (990,316) 1992-12-14  
[30] US (101,514) 1993-08-02

---

[11] **2,111,450**  
[13] C

[51] **Int.Cl. 6H04B 10/04 6H04B 10/145**  
[25] EN  
[54] **HIGH-POWER SIGNALS OPTICAL GENERATOR FOR TELECOMMUNICATION EQUIPMENTS**  
[54] **GENERATEUR DE SIGNAUX LUMINEUX DE GRANDE PUISSANCE POUR MATERIEL DE TELECOMMUNICATION**  
[72] Righetti, Aldo, IT  
[72] Fontana, Flavio, IT  
[72] Grasso, Giorgio, IT  
[73] PIRELLI CAVI S.p.A., IT  
[22] 1993-12-14  
[30] IT (MI92 A 002932) 1992-12-23

---

[11] **2,111,626**  
[13] C

[51] **Int.Cl. 6B26B 19/14**  
[25] EN  
[54] **ELECTRIC RAZOR**  
[54] **RASOIR ELECTRIQUE**  
[72] Okabe, Masaki, JP  
[72] Nakano, Tsuyoshi, JP  
[73] Izumi Products Company, JP  
[22] 1993-12-16  
[30] JP (5-18230) 1993-01-08

---

[11] **2,113,057**  
[13] C

[51] **Int.Cl. 6H02G 3/26**  
[25] FR  
[54] **ACCESSOIRE DE GOULOTTE ET GOULOTTE EQUIPEE D'UN TEL ACCESSOIRE**  
[54] **CHUTE ACCESSORY AND CHUTE EQUIPPED WITH SAID ACCESSORY**  
[72] Buard, Yvon, FR  
[73] LEGRAND, FR  
[22] 1994-01-07  
[30] FR (93 00 288) 1993-01-14

---

Canadian Patents Issued  
August 31, 1999

[11] 2,113,963  
[13] C

[51] Int.Cl. 6G02F 1/15  
[25] EN  
[54] ELECTROCHROMIC GLASS FOR USE IN CARS AND BUILDINGS  
[54] VERRE ELECTROCHROMIQUE DESTINE A ETRE UTILISE DANS LES VOITURES ET LES BATIMENTS  
[72] Green, Mino, GB  
[73] SOCIETA ITALIANA VETRO - SIV - S.p.A., IT  
[22] 1994-01-21  
[30] IT (RM93A000028) 1993-01-22

[11] 2,115,531  
[13] C

[51] Int.Cl. 6B01D 39/14 6A61M 1/00  
[25] EN  
[54] BLOOD FILTER AND METHOD OF FILTRATION  
[54] FILTRE SANGUIN ET METHODE DE FILTRATION  
[72] Heagle, David G., US  
[72] Hiers, John J., US  
[73] Lydall, Inc., US  
[22] 1994-02-11  
[30] US (08/022,642) 1993-02-25

[11] 2,118,417  
[13] C

[51] Int.Cl. 6B60N 2/04  
[25] EN  
[54] POWER SEAT ADJUSTER WITH DRIVE GEAR FORCE BYPASS  
[54] DISPOSITIF ELECTRIQUE DE REGLAGE DE LA POSITION DU SIEGE, MUNI D'UN SYSTEME DE CONTOURNEMENT DE LA FORCE EXERCEE PAR LES ENGRENAGES D'ENTRAINEMENT  
[72] Gauger, Derek K., US  
[72] Horvet, Kirk K., US  
[72] Chaban, Phillip, US  
[73] LEAR CORPORATION, US  
[85] 1994-10-18  
[86] 1993-04-27 (PCT/US93/04127)  
[87] (WO93/22154)  
[30] US (07/876,549) 1992-04-30

[11] 2,114,889  
[13] C

[51] Int.Cl. 6H01H 71/12 6H01H 73/12 6H02H 3/16  
[25] EN  
[54] PLUG-IN GROUND FAULT MONITOR FOR A CIRCUIT BREAKER  
[54] DISPOSITIF DE SURVEILLANCE DE MASSE, ENFICHABLE, POUR DISJONCTEUR  
[72] Leone, David A., US  
[72] Alexander, James O., US  
[73] Siemens Energy & Automation, Inc., US  
[22] 1994-02-03  
[30] US (014,306) 1993-02-05

[11] 2,116,135  
[13] C

[51] Int.Cl. 6C08L 21/00 6B60C 1/00 6C09K 3/10  
[25] EN  
[54] PUNCTURE SEALANT FORMULATION  
[54] FORMULE DE PRODUIT POUR LA REPARATION DE CREVAISONS  
[72] Sanda, Joseph Charles, Jr., US  
[73] Michelin Recherche et Technique S.A., CH  
[85] 1994-02-21  
[86] 1993-06-17 (PCT/US93/05843)  
[87] (WO94/00289)  
[30] US (902,200) 1992-06-22

[11] \* 2,118,629  
[13] C

[51] Int.Cl. 6A61C 15/00  
[25] EN  
[54] DENTAL STRIP  
[54] RUBAN DENTAIRE  
[72] Czapor, Henry P., US  
[73] Czapor, Henry P., US  
[22] 1994-03-09

[11] 2,115,072  
[13] C

[51] Int.Cl. 6F02B 37/04 6F02D 23/02 6F02B 39/16  
[25] EN  
[54] METHANOL FUELED DIESEL CYCLE INTERNAL COMBUSTION ENGINE  
[54] MOTEUR A COMBUSTION INTERNE, A CYCLE DIESEL, ALIMENTE AU METHANOL  
[72] Miller, Stanley P., US  
[72] Savonen, Craig L., US  
[72] Weisman, Steven M., US  
[72] Tasky, David P., US  
[72] Hawkins, Jeffrey S., US  
[72] Winsor, Richard E., US  
[73] Detroit Diesel Corporation, US  
[85] 1994-02-04  
[86] 1992-09-08 (PCT/US92/07598)  
[87] (WO93/05289)  
[30] US (757,720) 1991-09-10

[11] 2,118,030  
[13] C

[51] Int.Cl. 6A61K 31/57 6A61K 31/565  
[25] EN  
[54] DRUG FOR INCREASING THE LEVEL OF TESTOSTERONE IN THE BODY  
[54] MEDICAMENT SERVANT A ELEVER LA CONCENTRATION DE TESTOSTERONE DANS L'ORGANISME  
[72] Mattern, Claudia, DE  
[72] Häcker, Rüdiger, DE  
[73] Arrowdean Limited, IE  
[85] 1994-10-12  
[86] 1993-04-30 (PCT/DE93/00397)  
[87] (WO93/21924)  
[30] DE (P 42 14 953.3) 1992-05-06

[11] 2,118,837  
[13] C

[51] Int.Cl. 6A01F 15/14  
[25] EN  
[54] HAY RECOMPRESSION AND NETTING MACHINE  
[54] PRESSE A FOURRAGE AVEC ACCESSOIRE DE MISE EN FILET DES BALLEES  
[72] Simpson, Bret A., US  
[73] NICHOLSON MANUFACTURING COMPANY, US  
[22] 1994-03-11  
[30] US (08/030,676) 1993-03-12

[11] 2,119,180  
[13] C

[51] Int.Cl. 6E04G 11/06  
[25] EN  
[54] CONCRETE WALL MONOLITHIC BUILDING UNIT  
[54] UNITE DE CONSTRUCTION MONOLITHIQUE POUR MURS DE BETON  
[72] Pruss, Donald E., US  
[73] Pruss, Donald E., US  
[22] 1994-03-16

**Brevets canadiens délivrés  
31 août 1999**

[11] **2,120,390**  
[13] C

[51] **Int.Cl. 6H01J 9/02**  
[25] EN  
[54] **METHOD OF MANUFACTURING ELECTRON SOURCE, ELECTRON SOURCE MANUFACTURED BY SAID METHOD, AND IMAGE FORMING APPARATUS USING SAID ELECTRON SOURCES**  
[54] **METHODE DE FABRICATION DE SOURCES D'ELECTRONS, SOURCE D'ELECTRONS FABRIQUEE SELON CETTE METHODE ET APPAREIL D'IMAGERIE UTILISANT CE TYPE DE SOURCE**  
[72] Suzuki, Hidetoshi, JP  
[72] Osada, Yoshiyuki, JP  
[72] Nomura, Ichiro, JP  
[72] Ono, Takeo, JP  
[72] Kawade, Hisaaki, JP  
[72] Yamaguchi, Eiji, JP  
[72] Takeda, Toshihiko, JP  
[72] Tushima, Hiroaki, JP  
[72] Hamamoto, Yasuhiro, JP  
[72] Iwasaki, Tatsuya, JP  
[72] Okuda, Masahiro, JP  
[72] Shinjo, Katsuhiko, JP  
[72] Todokoro, Yasuyuki, JP  
[72] Isono, Aoji, JP  
[72] Suzuki, Noritake, JP  
[73] Canon Kabushiki Kaisha, JP  
[22] 1994-03-31  
[30] JP (5-078164) 1993-04-05  
[30] JP (5-100087) 1993-04-05  
[30] JP (5-100088) 1993-04-05  
[30] JP (5-077900) 1993-04-05  
[30] JP (5-270343) 1993-10-28  
[30] JP (6-055493) 1994-03-25

[11] **2,120,407**  
[13] C

[51] **Int.Cl. 6C07C 53/00 6C07C 51/12 6C07C 69/14 6C07C 67/37**  
[25] FR  
[54] **PROCEDE DE PREPARATION D'ACIDES CARBOXYLIQUES OU DES ESTERS CORRESPONDANTS EN PRESENCE D'UN CATALYSEUR A BASE DE RHODIUM ET D'IRIDIUM**  
[54] **PROCESS FOR PREPARING CARBOXYLIC ACIDS OR CORRESPONDING ESTERS IN THE PRESENCE OF A RHODIUM- AND IRIDIUM-BASED CATALYST**  
[72] Nobel, Dominique, FR  
[72] Perron, Robert, FR  
[72] Denis, Philippe, FR  
[73] PARDIES ACETIQUES, FR  
[22] 1994-03-31  
[30] FR (93 03 733) 1993-03-31

[11] **2,120,692**  
[13] C

[51] **Int.Cl. 6B02C 13/00 6B02C 18/40**  
[25] EN  
[54] **COMMINUTING MACHINE WITH COMMINUTING GRATES**  
[54] **DILACERATEUR A GRILLES**  
[72] Doppstadt, Werner, DE  
[73] Doppstadt, Werner, DE  
[22] 1994-04-06  
[30] DE (P 43 11 435.0) 1993-04-07

[11] **2,121,204**  
[13] C

[51] **Int.Cl. 6G05G 1/28**  
[25] EN  
[54] **CAM ARRANGEMENT FOR USE IN ROTARY POSITION INDICATORS**  
[54] **CAME POUR INDICATEURS DE POSITION ROTATIFS**  
[72] Keck, David W., US  
[73] DWYER INSTRUMENTS, INC., US  
[22] 1994-04-13  
[30] US (063,493) 1993-05-18

[11] **2,121,684**  
[13] C

[51] **Int.Cl. 6H03G 3/20 6H04K 3/00**  
[25] EN  
[54] **AUTOMATIC GAIN CONTROL FOR REDUCING EFFECTS OF JAMMING**  
[54] **COMMANDE DE GAIN AUTOMATIQUE POUR REDUIRE LE BROUILLAGE**  
[72] Arnstein, Donald S., US  
[72] Lee, Jong W., US  
[73] COMSAT CORPORATION, US  
[85] 1994-04-19  
[86] 1992-10-29 (PCT/US92/09009)  
[87] (WO94/09571)  
[30] US (07/786,834) 1991-11-01

[11] **2,121,848**  
[13] C

[51] **Int.Cl. 6G06K 19/08 6G06K 1/12**  
[25] EN  
[54] **DOCUMENT SURROGATES**  
[54] **DOCUMENTS SUBSTITUTS**  
[72] Klotz, Leigh L., Jr., US  
[72] Rao, Ramana B., US  
[72] Johnson, Walter A. L., US  
[72] Withgott, M. Margaret, US  
[73] XEROX CORPORATION, US  
[22] 1994-04-21  
[30] US (052,088) 1993-04-22

[11] **2,121,872**  
[13] C

[51] **Int.Cl. 6B61G 9/04**  
[25] EN  
[54] **SLACKLESS BUFF GEAR CONNECTION SYSTEM**  
[54] **SYSTEME DE RACCORDEMENT A ORGANE DE TAMPONNEMENT SANS JEU**  
[72] Wurzer, Jeffrey D., US  
[72] Mautino, Peter Scott, US  
[73] McConway & Torley Corporation, US  
[22] 1994-04-21  
[30] US (08/097,960) 1993-07-27

[11] **2,122,675**  
[13] C

[51] **Int.Cl. 6H05K 5/03 6H02G 3/04**  
[25] FR  
[54] **GOULOTTE A JOINT DE COUVERCLE EQUIPE D'UN VERROU, NOTAMMENT POUR APPAREILLAGES ELECTRIQUES**  
[54] **WIRING DUCT WITH COVER JOINT EQUIPPED WITH A LATCH, NAMELY FOR ELECTRICAL EQUIPMENT**  
[72] Decore, Bertrand, FR  
[73] LEGRAND, FR  
[73] LEGRAND SNC, FR  
[22] 1994-05-02  
[30] FR (93 05 854) 1993-05-14

[11] **2,122,909**  
[13] C

[51] **Int.Cl. 6G09F 7/18 6G09F 7/00**  
[25] EN  
[54] **MOUNTING DEVICES**  
[54] **DISPOSITIFS D'ASSEMBLAGE**  
[72] Heard, Robert Arthur Henderson, GB  
[72] Waite, Terry, GB  
[73] Signfix Limited, GB  
[85] 1994-05-04  
[86] 1992-11-12 (PCT/GB92/02093)  
[87] (WO93/10517)  
[30] GB (9123958.2) 1991-11-12  
[30] GB (9211385.1) 1992-05-29

Canadian Patents Issued  
August 31, 1999

---

[11] **2,124,630**  
[13] C  
[51] Int.Cl. 6H01H 47/02 6H01H 47/08  
[25] FR  
[54] **DISPOSITIF DE COMMANDE DU FONCTIONNEMENT D'UN CONTACTEUR**  
[54] **CONTACTOR OPERATION CONTROL DEVICE**  
[72] Goiset, Jean-Pierre, FR  
[73] L'ÉQUIPEMENT ET LA CONSTRUCTION ÉLECTRIQUE en abrégé E.C.E., FR  
[22] 1994-05-30  
[30] FR (93/06508) 1993-06-01

---

[11] **2,124,670**  
[13] C  
[51] Int.Cl. 6B05B 9/08  
[25] EN  
[54] **LAWN AND GARDEN SPRAYER WITH HOSE COMPRESSION CONNECTOR**  
[54] **ARROSEUSE DE JARDIN ET DE PELOUSE AVEC RACCORD DE COMPRESSION**  
[72] Jackson, Gregory D., US  
[72] Krebs, Alan J., US  
[73] RL Corporation, US  
[22] 1994-05-30  
[30] US (08/105,711) 1993-08-12

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[11] **2,125,282**  
[13] C  
[51] Int.Cl. 6A61K 9/51 6A61K 9/10 6A61K 47/42  
[25] EN  
[54] **PHARMACEUTICALLY APPLICABLE NANOSOL AND PROCESS FOR PREPARING THE SAME**  
[54] **NANOSOL PHARMACEUTIQUEMENT APPLICABLE ET METHODE DE PREPARATION**  
[72] Wunderlich, Jens-Christian, DE  
[72] Schick, Ursula, DE  
[72] Werry, Jürgen, DE  
[72] Freidenreich, Jürgen, DE  
[73] ALFATEC-Pharma GmbH, DE  
[85] 1994-06-06  
[86] 1992-12-04 (PCT/DE92/01010)  
[87] (WO93/10768)  
[30] DE (P 41 40 195.6) 1991-12-05  
[30] DE (P 41 40 177.8) 1991-12-05  
[30] DE (P 41 40 178.6) 1991-12-05

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[11] **2,126,527**  
[13] C  
[51] Int.Cl. 6B65D 39/00  
[25] EN  
[54] **COMBINATION STOPPER-SHIELD CLOSURE**  
[54] **OBTURATEUR COMBINE POUR EPROUVETTES**  
[72] Burns, James A., US  
[73] Becton, Dickinson and Company, US  
[22] 1994-06-22  
[30] US (08/084,382) 1993-06-29

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[11] **2,126,590**  
[13] C  
[51] Int.Cl. 6B41J 29/10  
[25] EN  
[54] **RETARD FEED APPARATUS WITH NOISE SUPPRESSION DEVICE**  
[54] **INSTALLATION D'ALIMENTATION A RETARDEMENT AVEC DISPOSITIF DE REDUCTION DU BRUIT**  
[72] Palmatier, Richard, US  
[73] XEROX CORPORATION, US  
[22] 1994-06-23  
[30] US (083,225) 1993-06-29

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[11] **2,126,753**  
[13] C  
[51] Int.Cl. 6B41J 2/16 6B23K 26/00  
[25] EN  
[54] **METHOD OF FORMING TAPERED ORIFICE ARRAYS IN FULLY ASSEMBLED INK JET PRINTHEADS**  
[54] **METHODE DE FABRICATION DE RESEAUX A OUVERTURES COMIQUES DANS DES TETES D'IMPRESSON A JET D'ENCRE COMPLETEMENT ASSEMBLEES**  
[72] Hayes, Donald J., US  
[73] COMPAQ COMPUTER CORPORATION, US  
[85] 1994-06-24  
[86] 1992-12-18 (PCT/US92/10952)  
[87] (WO93/12937)  
[30] US (815,396) 1991-12-31

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[11] **2,127,576**  
[13] C  
[51] Int.Cl. 6G06F 3/06  
[25] EN  
[54] **PROCESSOR SYSTEM COMPRISING A PROCESSOR AND A MEMORY FIELD FOR CONTAINING A COMPUTER INTERFACE**  
[54] **SYSTEME DE TRAITEMENT COMPORTANT UN PROCESSEUR ET DES ESPACES EN MEMOIRE POUR STOCKER DES INTERFACES**  
[72] Anstötz, Karin Helene Maria, DE  
[72] Coolegem, Karel Gerard, NL  
[73] KONINKLIJKE KPN N.V., NL  
[22] 1994-07-07  
[30] EP (93202011.8) 1993-07-08

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[11] **2,127,697**  
[13] C  
[51] Int.Cl. 6B29C 49/58 6B29C 49/04 6B29C 49/60 6B29C 49/62 6B29C 49/64  
[25] EN  
[54] **METHOD FOR BLOW MOLDING TUBULAR CONTAINER**  
[54] **METHODE POUR L'OBTENTION D'UN RECIPIENT TUBULAIRE PAR INJECTION PAR SOUFFLAGE**  
[72] Takakusaki, Nobuyuki, JP  
[72] Terajima, Yoshimi, JP  
[72] Takeda, Isamu, JP  
[73] Toyo Seikan Kaisya, Ltd., JP  
[85] 1994-07-08  
[86] 1992-11-18 (PCT/JP92/01504)  
[87] (WO94/11178)

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[11] **2,128,023**  
[13] C  
[51] Int.Cl. 6C09K 7/02 6E21C 7/06  
[25] EN  
[54] **ITERATED FOAM PROCESS AND COMPOSITION FOR WELL TREATMENT**  
[54] **PROCEDE REPETE D'INJECTION DE MOUSSE ET COMPOSITION POUR LE TRAITEMENT D'UN PUIT**  
[72] Thomas, Todd R., US  
[73] Clearwater, Inc., US  
[85] 1994-07-13  
[86] 1994-01-14 (PCT/US94/00359)  
[87] (WO94/17154)  
[30] US (006,791) 1993-01-21

**Brevets canadiens délivrés  
31 août 1999**

[11] **2,128,328**  
[13] C

[51] **Int.Cl. 6G02C 7/02 6G02B 27/00 6G02B 3/08 6G02B 5/18**  
[25] EN  
[54] **METHODS AND MEANS FOR REDUCING TEMPERATURE-INDUCED VARIATIONS IN LENSES AND LENS DEVICES**  
[54] **MOYENS DE REDUIRE LES VARIATIONS DES PROPRIETES DES LENTILLES ET APPAREILS A LENTILLES ATTRIBUABLES A LA TEMPERATURE, ET METHODE CONNEXE**  
[72] Londoño, Carmaña, US  
[72] Plummer, William T., US  
[73] POLAROID CORPORATION, US  
[85] 1994-07-18  
[86] 1993-02-12 (PCT/US93/01324)  
[87] (WO93/20464)  
[30] US (07/858,522) 1992-03-27

[11] **2,129,085**  
[13] C

[51] **Int.Cl. 6G06F 3/02**  
[25] EN  
[54] **METHOD FOR CREATING COMPUTATIONALLY-SIGNIFICANT ASSOCIATIONS AMONG UNINTERPRETED DATA IN GRAPHICALLY-BASED COMPUTING SYSTEMS**  
[54] **METHODE POUR CREER DES ASSOCIATIONS UTILES AUX CALCULS ENTRE LES DONNEES NON INTERPRETEES DANS LES SYSTEMES INFORMATIQUES A BASE DE GRAPHIQUES**  
[72] Weber, Karon A., US  
[72] Poon, Alex D., US  
[72] Moran, Thomas P., US  
[73] XEROX CORPORATION, US  
[22] 1994-07-28  
[30] US (138548) 1993-10-15

[11] **2,129,433**  
[13] C

[51] **Int.Cl. 6A63C 17/14**  
[25] EN  
[54] **GROUND ENGAGING MOVABLE SKATE BRAKE**  
[54] **SYSTEME DE FREINAGE POUR PATIN**  
[72] Mitchell, David N., US  
[72] Bromley, Bob, US  
[72] Histan, Ivan, US  
[73] Out of Line Sports, Inc., US  
[85] 1994-08-03  
[86] 1993-02-04 (PCT/US93/00938)  
[87] (WO93/14841)  
[30] US (07/830,609) 1992-02-04  
[30] US (07/934,166) 1992-08-24

[11] **2,129,577**  
[13] C

[51] **Int.Cl. 6E01B 29/26**  
[25] EN  
[54] **AUTOMATIC RAIL FASTENER APPLICATOR**  
[54] **OUTIL DE FIXATION AUTOMATIQUE DE RAILS**  
[72] Boczkiewicz, Bruce M., US  
[72] Straub, William D., US  
[72] Eidemanis, Gunars, US  
[72] Hosking, Jack K., US  
[73] NORDCO INC., US  
[22] 1994-08-05  
[30] US (08/103,056) 1993-08-06

[11] **2,129,696**  
[13] C

[51] **Int.Cl. 6C08G 61/02 6C09J 165/00**  
[25] EN  
[54] **ALKYLATION RESINS FROM POLYCYCLIC AROMATIC COMPOUNDS**  
[54] **RESINES D'ALKYLATION DERIVEES DE COMPOSES POLYCYCLIQUES AROMATIQUES**  
[72] Biswas, Atanu, US  
[72] Klosiewicz, Daniel W., US  
[73] HERCULES INCORPORATED, US  
[22] 1994-08-08  
[30] US (103,461) 1993-08-09

[11] **2,130,159**  
[13] C

[51] **Int.Cl. 6G03F 7/033 6G03F 7/028 6G03F 7/26**  
[25] EN  
[54] **AQUEOUS DEVELOPABLE FLEXOGRAPHIC PRINTING PLATE**  
[54] **PLANCHE D'IMPRESSION FLEXOGRAPHIQUE DEVELOPPABLE A L'EAU**  
[72] Shea, Paul Thomas, US  
[72] Grossman, Jan, US  
[72] Quinn, John Anthony, US  
[72] Swatton, David William, US  
[72] Briones, Jose Antonio, US  
[73] DU PONT (E. I.) DE NEMOURS AND COMPANY, US  
[22] 1994-08-15  
[30] US (08/113,147) 1993-08-27

[11] **2,130,280**  
[13] C

[51] **Int.Cl. 6C07K 14/47 6C07K 1/14 6C07K 1/22**  
[25] EN  
[54] **METHOD FOR PURIFICATION OF CARDIAC TROPONIN I**  
[54] **METHODE DE PURIFICATION DE LA TROPONINE I CARDIAQUE**  
[72] Lee, Lilian, CA  
[72] Jackowski, George, CA  
[73] Spectral Diagnostics Inc., CA  
[22] 1994-08-17  
[30] US (08/110,824) 1993-08-24

[11] **2,131,302**  
[13] C

[51] **Int.Cl. 6A23L 1/22 6A23P 1/04**  
[25] EN  
[54] **HEAT-STABLE AND FRACTURABLE SPRAY-DRIED FREE-FLOWING FLAVOR OIL CAPSULES, METHOD OF MAKING AND USING IN FOODS**  
[54] **CAPSULES THERMOSTABLES, CASSABLES, D'HUILES AROMATISANTES A ECOULEMENT LIBRE, SECHEES PAR PULVERISATION; METHODE DE PREPARATION ET UTILISATION DANS LES ALIMENTS**  
[72] Wampler, Daniel J., US  
[72] Soper, Jon C., US  
[72] Pearl, Theodore T., US  
[73] GIVAUDAN-ROURE (INTERNATIONAL) SA, CH  
[85] 1994-08-31  
[86] 1993-03-30 (PCT/US93/03000)  
[87] (WO93/19622)  
[30] US (859,349) 1992-03-30

Canadian Patents Issued  
August 31, 1999

---

[11] **2,131,402**  
[13] C  
[51] **Int.Cl. 6B42D 9/00 6A47B 23/00 6A47B 19/10**  
[25] EN  
[54] **ADJUSTABLE BOOK HOLDER**  
[54] **PORTE-LIVRE REGLABLE**  
[72] Samson, Daniel, US  
[72] Corriveau, André, CA  
[73] Corsam Industries Inc., CA  
[22] 1994-09-02

---

[11] **2,131,959**  
[13] C  
[51] **Int.Cl. 6B07B 13/11**  
[25] EN  
[54] **APPARATUS FOR SORTING CONSTITUENTS OF A MIXTURE**  
[54] **APPAREIL POUR TRIER LES COMPOSANTS D'UN MELANGE**  
[72] Göschl, Reinhard, AT  
[73] TECHNISCHE BÜRO ING. REINHARD GOSCHL, AT  
[22] 1994-09-13

---

[11] **2,134,575**  
[13] C  
[51] **Int.Cl. 6H05K 3/30**  
[25] EN  
[54] **SURFACE MOUNT ASSEMBLY OF DEVICES USING ADCON INTERCONNECTIONS**  
[54] **MONTAGE DE DISPOSITIFS EN SURFACE AU MOYEN D'INTERCONNEXIONS ADHESIVES CONDUCTRICES**  
[72] Dahringer, Donald William, US  
[72] Lyons, Alan Michael, US  
[73] AMERICAN TELEPHONE AND TELEGRAPH COMPANY, US  
[22] 1994-10-28

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[11] **2,134,984**  
[13] C  
[51] **Int.Cl. 6A23J 1/20**  
[25] EN  
[54] **METHOD FOR OBTAINED HIGH-QUALITY PROTEIN PRODUCTS FROM WHEY**  
[54] **METHODE POUR L'OBTENTION DE PRODUITS DE PROTEINES DE GRANDE QUALITE A PARTIR DE PETIT-LAIT**  
[72] Jensen, John, DK  
[72] Larsen, Peter Henrik, DK  
[73] TETRA LAVAL HOLDINGS & FINANCE S.A., CH  
[85] 1994-11-02  
[86] 1993-04-29 (PCT/SE93/00378)  
[87] (WO93/21781)  
[30] SE (9201435-6) 1992-05-07

---

[11] **2,135,538**  
[13] C  
[51] **Int.Cl. 6B01F 15/02 6B01F 3/12 6B65G 53/26**  
[25] EN  
[54] **POWDER TRANSFER FROM SUPERSACK CONTAINERS AND DISPERSION INTO A HOMOGENEOUS SLURRY**  
[54] **TRANSFERT DE POUDDRE DE CONTENANTS SUPERSAC ET DISPERSION DANS UNE BOUE HOMOGENE**  
[72] Walker, Richard C., US  
[73] J.M. Huber Corporation, US  
[22] 1994-11-10  
[30] US (08/322,497) 1994-10-14

---

[11] **2,136,207**  
[13] C  
[51] **Int.Cl. 6B01J 8/24 6B05C 19/02 6C23C 16/26**  
[25] EN  
[54] **PYROLYTIC DEPOSITION IN A FLUIDIZED BED**  
[54] **DEPOSITION PYROLITIQUE EN LIT FLUIDISE**  
[72] Wilde, David Summers, US  
[72] Accuntius, James Albert, US  
[73] Carbon Implants, Inc., US  
[85] 1994-11-18  
[86] 1992-06-05 (PCT/US92/04735)  
[87] (WO93/25304)

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[11] **2,136,481**  
[13] C  
[51] **Int.Cl. 6H04N 1/387**  
[25] EN  
[54] **AUTOMATED TEMPLATE DESIGN METHOD FOR PRINT ENHANCEMENT**  
[54] **METHODE DE CONCEPTION AUTOMATIQUE DE GABARITS POUR AMELIORER LA QUALITE D'IMPRESSION**  
[72] Eschbach, Reiner, US  
[73] XEROX CORPORATION, US  
[22] 1994-11-23  
[30] US (08/169,483) 1993-12-17

---

[11] **2,137,744**  
[13] C  
[51] **Int.Cl. 6C22C 38/60 6C22C 38/48**  
[25] EN  
[54] **STEEL FOR CARBURIZED GEAR**  
[54] **ACIER CARBURE POUR ENGRENAGES**  
[72] Sakamoto, Kazuo, JP  
[72] Fukuzumi, Tatsuo, JP  
[72] Ueno, Hideo, JP  
[73] Mitsubishi Steel Mfg. Co., Ltd., JP  
[22] 1994-12-09  
[30] JP (6-30852) 1994-02-03

---

[11] **2,137,807**  
[13] C  
[51] **Int.Cl. 6A47J 43/10**  
[25] EN  
[54] **IMPROVEMENTS IN AERATING DEVICES**  
[54] **AMELIORATIONS CONCERNANT LES FOUETS**  
[72] Khan, Kameel I. F., GB  
[72] Randell, Julia, GB  
[73] Khan, Kameel I. F., GB  
[73] Randell, Julia, GB  
[85] 1994-12-09  
[86] 1993-06-14 (PCT/GB93/01258)  
[87] (WO93/25135)  
[30] GB (9212565.7) 1992-06-12  
[30] GB (9304785.0) 1993-03-09

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**Brevets canadiens délivrés  
31 août 1999**

[11] **2,139,193**  
[13] C

[51] **Int.Cl. 6G02F 1/025**  
[25] EN  
[54] **SEMICONDUCTOR MULTIPLE QUANTUM WELL MACH-ZEHNDER OPTICAL MODULATOR AND METHOD FOR FABRICATING THE SAME**  
[54] **MODULATEUR OPTIQUE DE MACH-ZEHNDER A PUIITS QUANTIQUES ET SA METHODE DE FABRICATION**  
[72] Komatsu, Keiro, JP  
[73] NEC CORPORATION, JP  
[22] 1994-12-28  
[30] JP (5-331409) 1993-12-27

[11] **2,139,267**  
[13] C

[51] **Int.Cl. 6H05K 3/46 6H05K 1/02**  
[25] EN  
[54] **MULTI-LAYER WIRING SUBSTRATE**  
[54] **SUBSTRAT DE MONTAGE**  
[72] Inasaka, Jun, JP  
[73] NEC Corporation, JP  
[22] 1994-12-29  
[30] JP (352380/1993) 1993-12-29

[11] **2,140,211**  
[13] C

[51] **Int.Cl. 6A47B 88/04**  
[25] EN  
[54] **A GUIDE RAIL ASSEMBLY FOR DRAWERS**  
[54] **GLISSIERE DE TIROIR**  
[72] Gasser, Ingo, AT  
[72] Hämmerle, Hermann, AT  
[73] Julius Blum Gesellschaft m.b.H., AT  
[22] 1995-01-13  
[30] AT (A 67/94) 1994-01-17

[11] **2,140,736**  
[13] C

[51] **Int.Cl. 6E21B 36/00**  
[25] EN  
[54] **A THIXOTROPIC FLUID FOR WELL INSULATION**  
[54] **UN LIQUIDE THIXOTROPE POUR L'ISOLATION DES PUIITS**  
[72] Rios, Carlos, VE  
[72] Suarez, Simon, VE  
[72] Tovar, José Gregorio, VE  
[72] Layrisse, Ignacio, VE  
[73] Intevp, S.A., VE  
[22] 1995-01-20  
[30] US (08/202,286) 1994-02-25

[11] **2,141,145**  
[13] C

[51] **Int.Cl. 6G06K 9/00**  
[25] EN  
[54] **METHOD AND APPARATUS FOR STANDARDIZATION OF INPUTS TO WORD RECOGNITION SYSTEMS**  
[54] **METHODE ET DISPOSITIF POUR NORMALISER LES SIGNAUX D'ENTREE DANS LES SYSTEMES DE RECONNAISSANCE DE MOTS**  
[72] Lecun, Yann A., US  
[73] NCR CORPORATION, US  
[22] 1995-01-26  
[30] US (237,813) 1994-05-04

[11] **2,141,720**  
[13] C

[51] **Int.Cl. 6B61H 1/00 6B61K 3/00**  
[25] EN  
[54] **WHEEL TREAD CONDITIONING BRAKE SHOE**  
[54] **SEMELLE DE FREIN SERVANT AU REPROFILAGE A LA SURFACE DE ROULEMENT DE ROUES**  
[72] Shute, Bruce W., US  
[72] Formolo, Joseph F., US  
[73] Westinghouse Air Brake Company, US  
[22] 1995-02-02  
[30] US (08/370,911) 1995-01-10

[11] **2,141,765**  
[13] C

[51] **Int.Cl. 6A61K 7/42 6B01J 13/00 6A61K 7/02 6A61K 7/06 6A61K 7/48**  
[25] FR  
[54] **EMULSION CONTENANT DE L'ACIDE ASCORBIQUE STABILISE, PROCEDE DE TRAITEMENT COSMETIQUE LA METTANT EN OEUVRE, SES UTILISATIONS**  
[54] **STABILIZED ASCORBIC ACID CONTAINING EMULSION; COSMETIC TREATMENT PROCESS USING SAID EMULSION AND OTHER USES**  
[72] Candau, Didier, FR  
[72] Collin, Nathalie, FR  
[73] L'OREAL, FR  
[22] 1995-02-03  
[30] FR (94 01 282) 1994-02-04

[11] **2,143,473**  
[13] C

[51] **Int.Cl. 6A21D 8/02 6A21D 10/02 6B65B 31/04 6B65D 81/20**  
[25] EN  
[54] **ASSEMBLY CONTAINING A DOUGH AND PROCESS FOR ITS PREPARATION**  
[54] **RECIPIENT POUR RECEVOIR UNE PATE ET SA PREPARATION**  
[72] Vidkjaer, Karsten, DK  
[73] SOCIETE DES PRODUITS NESTLE S.A., CH  
[22] 1995-02-27  
[30] EP (94104044.6) 1994-03-16

[11] **2,143,789**  
[13] C

[51] **Int.Cl. 6A01B 51/04 6A01B 59/04**  
[25] EN  
[54] **TRAILING CART FOR AGRICULTURAL TOOLBAR**  
[54] **REMORQUE SERVANT DE PORTE-OUTILS A UNE MACHINE AGRICOLE**  
[72] Green, Lawrence David, US  
[72] Pratt, Ronald Lee, US  
[73] Deere & Company, US  
[22] 1995-03-02  
[30] US (08/236,711) 1994-04-29

[11] **2,143,918**  
[13] C

[51] **Int.Cl. 6F24F 7/00 6F16K 24/04**  
[25] EN  
[54] **METHOD AND APPARATUS FOR REDUCING DAMPER OPERATING PRESSURE**  
[54] **METHODE ET DISPOSITIF POUR REDUIRE LE DIFFERENTIEL DE PRESSION DANS UN DISPOSITIF ANTI-VIBRATOIRE**  
[72] Snyder, Robert Earl, US  
[72] Williams, Paul Joseph, US  
[73] Babcock & Wilcox Company (The), US  
[22] 1995-03-03  
[30] US (209,022) 1994-03-10

[11] **2,143,987**  
[13] C

[51] **Int.Cl. 6F16L 3/12 6H02G 7/05**  
[25] EN  
[54] **CABLE HANGER**  
[54] **CINTRE DE CABLES**  
[72] Nelson, James W., US  
[73] Radio Frequency Systems, Inc., US  
[22] 1995-03-06  
[30] US (08/207,348) 1994-03-07



Canadian Patents Issued  
August 31, 1999

---

[11] **2,144,805**  
[13] C  
[51] **Int.Cl. 6B65D 47/04**  
[25] EN  
[54] **FILLING TROUGH/DISPENSING CAP**  
[54] **CONDUIT DE REMPLISSAGE/CAPSULE DISTRIBUTRICE**  
[72] Stanek, Terrence L., US  
[72] Rhea, Stephen L., US  
[73] Emerson Electric Co., US  
[22] 1995-03-16  
[30] US (312,549) 1994-09-26

---

[11] **2,145,402**  
[13] C  
[51] **Int.Cl. 6C10G 70/04 6C10G 7/02**  
[25] EN  
[54] **FOULING REDUCING DUAL PRESSURE FRACTIONAL DISTILLATOR**  
[54] **METHODE POUR REDUIRE L'ENCRASSEMENT DANS UN PROCEDE DE DISTILLATION FRACTIONNEE DOUBLE PRESSION**  
[72] Snider, Sheri Renee, US  
[72] Bamford, David Alan, US  
[72] Vebeliunas, Rimas Virgilijus, US  
[72] Halle, Roy Thomas, US  
[72] Strack, Robert David, US  
[73] EXXON CHEMICAL PATENTS INC., US  
[85] 1995-03-23  
[86] 1993-09-24 (PCT/US93/09049)  
[87] (WO94/06890)  
[30] US (950,622) 1992-09-24

---

[11] **2,145,612**  
[13] C  
[51] **Int.Cl. 6B62B 1/10 6B62B 1/14**  
[25] EN  
[54] **SPORTS EQUIPMENT CARRIER**  
[54] **CONTENANT DESTINE AU SPORT**  
[72] Buccioni, Aldo, CA  
[73] Buccioni, Aldo, CA  
[22] 1995-03-27  
[30] US (08/409,240) 1995-03-24

---

[11] **2,145,835**  
[13] C  
[51] **Int.Cl. 6C07D 401/06 6C07D 487/04 6C07D 403/06 6C07D 413/06 6C07D 417/06 6C07D 491/113 6A61K 31/395**  
[25] EN  
[54] **HYDROXAMIC ACID DERIVATIVES WITH TRICYCLIC SUBSTITUTION**  
[54] **DERIVES D'ACIDE HYDROXAMIQUE AVEC SUBSTITUTION TRICYCLIQUE**  
[72] Broadhurst, Michael John, GB  
[72] Brown, Paul Anthony, GB  
[72] Johnson, William Henry, GB  
[73] F. Hoffmann-La Roche AG, CH  
[22] 1995-03-29  
[30] GB (9408183.3) 1994-04-25  
[30] GB (9501737.2) 1995-01-30

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[11] **2,145,944**  
[13] C  
[51] **Int.Cl. 6G05D 23/19 6H01R 9/24 6H01R 13/639**  
[25] EN  
[54] **ELECTRONIC THERMOSTAT HAVING HIGH AND LOW VOLTAGE CONTROL CAPABILITY**  
[54] **THERMOSTAT ELECTRONIQUE A COMMANDE HAUTE TENSION ET BASSE TENSION**  
[72] Lynn, Michael, US  
[72] Morris, Alan L., US  
[72] Perry, Richard A., US  
[72] Carper, June R., US  
[73] SIEMENS BUILDING TECHNOLOGIES, INC., US  
[22] 1995-03-30  
[30] US (08/233,917) 1994-04-28

---

[11] **2,146,686**  
[13] C  
[51] **Int.Cl. 6C11D 3/12 6C11D 17/06 6C11D 3/50**  
[25] EN  
[54] **GRANULAR DETERGENT COMPOSITION**  
[54] **COMPOSITION DETERGENTE GRANULAIRE**  
[72] Baillely, Gerard Marcel, GB  
[73] Procter & Gamble Company (The), US  
[22] 1995-04-10  
[30] GB (9408448.0) 1994-04-28

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[11] **2,146,692**  
[13] C  
[51] **Int.Cl. 6H01M 4/24**  
[25] EN  
[54] **ALKALINE BATTERY**  
[54] **PILE ALCALINE**  
[72] Kojima, Yuri, JP  
[72] Mototani, Yuji, JP  
[72] Asaoka, Junichi, JP  
[73] MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD., JP  
[22] 1995-04-10  
[30] JP (06-083089) 1994-04-21

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[11] **2,147,245**  
[13] C  
[51] **Int.Cl. 6A61B 17/36 6A61B 17/08 6A61F 7/12**  
[25] EN  
[54] **CLAMP FOR APPLYING THERMAL ENERGY**  
[54] **PINCE SERVANT A APPLIQUER DE L'ENERGIE THERMIQUE**  
[72] Anderson, Dallas W., US  
[73] Premier Laser Systems, Inc., US  
[85] 1995-04-18  
[86] 1993-10-14 (PCT/US93/09860)  
[87] (WO94/08526)  
[30] US (961,165) 1992-10-14  
[30] US (972,530) 1992-11-06

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[11] **2,147,298**  
[13] C  
[51] **Int.Cl. 6H04N 1/40 6G03G 15/01 6G06F 3/12 6H04N 1/405 6B41J 2/47**  
[25] EN  
[54] **ROTATING NON-ROTATIONALLY SYMMETRICAL HALFTONE DOTS FOR ENCODING EMBEDDED DATA IN A HYPERACUITY PRINTER**  
[54] **POINTS DE DEMI-TEINTE TOURNANTS SANS SYMETRIE DE REVOLUTION POUR LE CODAGE DES DONNEES INTEGREES A UNE IMPRIMANTE**  
[72] Curry, Douglas N., US  
[73] XEROX CORPORATION, US  
[22] 1995-04-19  
[30] US (252872) 1994-06-02

**Brevets canadiens délivrés  
31 août 1999**

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[11] **2,147,975**  
[13] C

[51] **Int.Cl. 6H01M 4/00**  
[25] EN  
[54] **BIFUNCTIONAL AIRELECTRODE  
OXYDOREDUCTRICE  
BIFONCTIONNELLE**  
[72] Shepard, Vance Roger, Jr., US  
[72] Smalley, Yardlyne G., US  
[72] Bentz, Richard Dennis, US  
[73] AER ENERGY RESOURCES, INC., US  
[85] 1995-04-26  
[86] 1993-10-28 (PCT/US93/10349)  
[87] (WO94/10714)  
[30] US (07/969,433) 1992-10-30

---

[11] **2,148,022**  
[13] C

[51] **Int.Cl. 6H04Q 7/12 6H04Q 7/22**  
[25] EN  
[54] **GLOBAL PAGING WITH  
REVERSE VIRTUAL CALL SETUP IN  
WIRELESS PERSONAL  
COMMUNICATIONS**  
[54] **SYSTEME DE  
RADIOMESSAGERIE MONDIAL  
UTILISANT DES SIGNAUX  
D'ETABLISSEMENT D'APPELS DE  
RETOUR POUR LES  
COMMUNICATIONS PERSONNELLES  
SANS FIL**  
[72] Gitlin, Richard Dennis, US  
[72] I, Chih-Lin, US  
[73] AT&T Corp., US  
[22] 1995-04-27  
[30] US (255,684) 1994-06-08

---

[11] **2,148,462**  
[13] C

[51] **Int.Cl. 6C01B 11/02 6C01D 5/02**  
[25] EN  
[54] **METATHESIS OF ACIDIC BY-  
PRODUCT OF CHLORINE DIOXIDE  
GENERATING PROCESS**  
[54] **OBTENTION, PAR METATHESE,  
D'UN PRODUIT SECONDAIRE  
NEUTRE DANS LE PROCEDURE DE  
FORMATION DE DIOXYDE DE  
CHLORE**  
[72] Scribner, Herbert C., US  
[72] Fredette, Maurice C. J., CA  
[72] Bechberger, Edward J., CA  
[72] Pu, Chunmin, CA  
[73] STERLING CANADA, INC., US  
[85] 1995-05-02  
[86] 1993-10-21 (PCT/US93/10149)  
[87] (WO94/11300)  
[30] US (973,760) 1992-11-09

---

---

[11] **2,149,022**  
[13] C

[51] **Int.Cl. 6B65B 3/14**  
[25] EN  
[54] **APPARATUS AND METHOD FOR  
ELIMINATING HAZARDOUS  
MATERIALS FROM CARGO TANK  
WET LINES**  
[54] **APPAREIL ET METHODE  
SERVATN A RETIRER LES MATIERES  
DANGEREUSES DES CONDUITES  
PLEINES DE CITERNES DE CHARGE**  
[72] Andenmatten, Roy W., US  
[72] Andenmatten, Ronald P., US  
[73] Andenmatten, Roy W., US  
[73] Andenmatten, Ronald P., US  
[85] 1995-05-09  
[86] 1993-11-09 (PCT/US93/10832)  
[87] (WO94/11250)  
[30] US (973,487) 1992-11-09

---

[11] **2,149,334**  
[13] C

[51] **Int.Cl. 6A47C 7/54**  
[25] EN  
[54] **ADJUSTING MECHANISM FOR A  
SUPPORT ELEMENT INCLUDED IN A  
SEAT AND PIVOTABLE IN THE  
VERTICAL PLANE**  
[54] **MECANISME DE REGLAGE  
DESTINE A UN ELEMENT SUPPORT  
INCLUS DANS UN SIEGE ET POUVANT  
PIVOTER DNAS LE PLAN VERTICAL**  
[72] Vairinen, Erkki, FI  
[73] Jukova Oy, FI  
[85] 1995-05-12  
[86] 1993-11-18 (PCT/FI93/00489)  
[87] (WO94/12081)  
[30] FI (925275) 1992-11-20

---

[11] **2,149,463**  
[13] C

[51] **Int.Cl. 6G06F 9/44**  
[25] EN  
[54] **CLASS LIBRARY FOR USE IN  
GRAPHICS PROGRAMMING**  
[54] **BIBLIOTHEQUE DE CLASSES  
POUR LA PROGRAMMATION  
GRAPHIQUE**  
[72] Eick, Stephen Gregory, US  
[72] Lucas, Paul Jay, US  
[72] Wills, Graham John, US  
[73] AT&T CORP., US  
[22] 1995-05-16  
[30] US (260,133) 1994-06-15

---

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[11] **2,149,765**  
[13] C

[51] **Int.Cl. 6C12Q 1/68 6C08G 73/00  
6C07H 19/00 6C07H 21/00 6C12N 15/10**  
[25] EN  
[54] **SEQUENCE-SPECIFIC BINDING  
POLYMERS FOR DUPLEX NUCLEIC  
ACIDS**  
[54] **POLYMERES DE LIAISON  
SPECIFIQUES POUR LA SEQUENCE,  
DESTINES A DES ACIDES  
NUCLEIQUES BICATENAIRES**  
[72] Summerton, James E., US  
[72] Weller, Dwight D., US  
[73] Antivirals Inc., US  
[85] 1995-05-18  
[86] 1993-11-23 (PCT/US93/11377)  
[87] (WO94/12517)  
[30] US (07/979,158) 1992-11-23

---

[11] **2,150,059**  
[13] C

[51] **Int.Cl. 6G06F 9/46**  
[25] EN  
[54] **PROGRESSIVE RETRY METHOD  
AND APPARATUS HAVING REUSABLE  
SOFTWARE MODULES FOR  
SOFTWARE FAILURE RECOVERY IN  
MULTI-PROCESS MESSAGE-PASSING  
APPLICATIONS**  
[54] **METHODE ET APPAREIL DE  
RELANCE PROGRESSIVE UTILISANT  
DES MODULES LOGICIELS  
REUTILISABLES POUR LES REPRISES  
APRES LES DEFAILLANCES DE  
LOGICIEL DANS LES APPLICATIONS  
DE TRANSMISSION DE MESSAGES A  
OPERATIONS MULTIPLES**  
[72] Fuchs, Wesley Kent, US  
[72] Wang, Yi-Min, US  
[72] Huang, Yennun, US  
[72] Kintala, Chandra Mohan Rao, US  
[73] AT&T IPM CORP., US  
[22] 1995-05-24  
[30] US (263,916) 1994-06-22

---

**Canadian Patents Issued  
August 31, 1999**

---

[11] **2,150,759**  
[13] C

[51] **Int.Cl. 6B08B 9/02 6F23J 3/02 6F22B 37/54**  
[25] EN  
[54] **CONVERTIBLE MEDIA SOOTBLOWER LANCE TUBE**  
[54] **LANCE DE SOUFFLEUR DE SUIE, A MEDIUMS INTERCHANGEABLES**  
[72] Booher, Joel H., US  
[72] Koksai, Cevdet G., US  
[72] Sherrick, Ronald E., US  
[73] DIAMOND POWER INTERNATIONAL, INC., US  
[22] 1995-06-01  
[30] US (269,067) 1994-06-30

---

[11] **2,150,977**  
[13] C

[51] **Int.Cl. 6A01D 73/00 6A01B 73/00 6B60B 33/00**  
[25] EN  
[54] **IMPLEMENT CASTER WHEEL**  
[54] **ROUE DE JAUGE DE MACHINERIE AGRICOLE**  
[72] Honey, Gregory J., CA  
[73] Honey Bee Manufacturing Ltd., CA  
[22] 1995-06-05

---

[11] **2,151,155**  
[13] C

[51] **Int.Cl. 6G07F 17/00 6G07B 1/00 6G07F 19/00**  
[25] EN  
[54] **APPARATUS FOR DISPENSING MONEY ORDERS**  
[54] **DISTRIBUTRICE-IMPRIMANTE D'INSTRUMENTS DE PAIEMENT**  
[72] Foreman, Jack C., US  
[72] Steiger, Billy Joe, US  
[72] Heyen, Gerald L., US  
[72] Voigt, Trent R., US  
[72] Carter, James S., US  
[72] Blaney, Loren F., US  
[72] Tierney, Stephen J., US  
[73] TRAVELERS EXPRESS COMPANY, INC., US  
[85] 1995-06-06  
[86] 1994-10-11 (PCT/US94/11385)  
[87] (WO95/10905)  
[30] US (134,108) 1993-10-12

---

[11] **2,151,171**  
[13] C

[51] **Int.Cl. 6F16L 37/08**  
[25] EN  
[54] **SAFETY COUPLER LOCKING MEANS**  
[54] **DISPOSITIFS DE VERROUILLAGE SECURITAIRES D'UN ACCOUPLEMENT**  
[72] Anderson, Todd William, US  
[72] Fahl, Richard L., US  
[73] Dover Corporation, US  
[22] 1995-06-07  
[30] US (255,235) 1994-06-07

---

[11] **2,151,778**  
[13] C

[51] **Int.Cl. 6C01B 15/023 6C01B 15/026 6C07C 63/06 6B01J 19/08 6C07F 7/10 6C07C 50/16 6C07C 49/17 6C07C 51/265 6C07C 45/33 6C07C 45/39 6C07C 47/54**  
[25] EN  
[54] **PRODUCTION OF HYDROGEN PEROXIDE**  
[54] **PREPARATION DE PEROXYDE D'HYDROGENE**  
[72] Guillet, James E., CA  
[72] Friedman, Gad, IL  
[73] Guillet, James E., CA  
[73] Friedman, Gad, IL  
[22] 1994-10-13  
[30] US (08/136,020) 1993-10-14

---

[11] **2,152,482**  
[13] C

[51] **Int.Cl. 6E01B 25/26**  
[25] EN  
[54] **TRACK SWITCH FOR MOVABLE WALL PANELS**  
[54] **COMMUTATEUR DE VOIES POUR ELEMENTS DE MUR MOBILES**  
[72] Owens, N. Douglas, US  
[73] Modernfold, Inc., US  
[85] 1995-06-22  
[86] 1993-12-21 (PCT/US93/12548)  
[87] (WO94/15023)  
[30] US (994,881) 1992-12-22

---

[11] **2,153,011**  
[13] C

[51] **Int.Cl. 6G01G 11/00 6G01G 17/02 6G01G 11/04**  
[25] EN  
[54] **FIXED TRANSPORT ASSEMBLY FOR MAIL WEIGHING SCALE**  
[54] **TRANSPORTEUR FIXE POUR BALANCE POSTALE**  
[72] Lyga, Thomas M., US  
[73] Pitney Bowes Inc., US  
[22] 1995-06-29  
[30] US (08/272,408) 1994-07-08

---

[11] **2,153,205**  
[13] C

[51] **Int.Cl. 6G03G 7/00 6D21H 19/36**  
[25] EN  
[54] **TRANSFER PAPER FOR ELECTROPHOTOGRAPHY AND PROCESS FOR PRODUCING THE SAME**  
[54] **PAPIER A REPORT POUR PROCEDE ELECTROPHOTOGRAPHIQUE ET PROCEDE DE FABRICATION**  
[72] Matsuda, Tsukasa, JP  
[72] Sakurai, Kunio, JP  
[72] Inoue, Kyoko, JP  
[72] Kato, Masaru, JP  
[72] Watanabe, Harumi, JP  
[73] FUJI XEROX CO., LTD., JP  
[22] 1995-07-04  
[30] JP (6-152305) 1994-07-04  
[30] JP (6-190420) 1994-08-12  
[30] JP (6-265416) 1994-10-28  
[30] JP (6-265417) 1994-10-28

---

[11] **2,153,520**  
[13] C

[51] **Int.Cl. 6C08F 4/64 6C08F 10/00 6C08F 4/642**  
[25] EN  
[54] **CATALYST SYSTEMS AND PROCESS FOR PRODUCING BROAD MOLECULAR WEIGHT POLYOLEFIN**  
[54] **SYSTEME ET METHODE CATALYTIQUE POUR L'OBTENTION DE POLYOLEFINES A LARGE SPECTRE DE MASSE MOLECULAIRE**  
[72] Welch, M. Bruce, US  
[72] Geerts, Rolf L., US  
[72] Palackal, Syriac J., US  
[72] Pettijohn, Ted M., US  
[73] Phillips Petroleum Company, US  
[22] 1995-07-10  
[30] US (08/305,243) 1994-09-13

**Brevets canadiens délivrés  
31 août 1999**

---

[11] **2,153,729**  
[13] C

[51] **Int.Cl. 6H04Q 3/42**  
[25] EN  
[54] **METHOD OF TRANSMITTING CONTROL SIGNALS AND PBX SYSTEM**  
[54] **METHODE DE TRANSMISSION DE SIGNAUX DE COMMANDE ET SYSTEME PBX**  
[72] Nishida, Toshio, JP  
[73] Toshiba Corporation, JP  
[22] 1995-07-12  
[30] JP (6-163622) 1994-07-15

---

[11] **2,154,365**  
[13] C

[51] **Int.Cl. 6C10M 161/00**  
[25] EN  
[54] **IMPROVED HYDRAULIC OIL**  
[54] **HUILE HYDRAULIQUE AMELIOREE**  
[72] Junga, Anthony G., US  
[73] Petro Lube, Inc., US  
[85] 1995-07-20  
[86] 1993-12-28 (PCT/US93/12607)  
[87] (WO94/17164)  
[30] US (08/007,435) 1993-01-22

---

[11] **2,155,194**  
[13] C

[51] **Int.Cl. 6C09C 1/50 6C08K 3/04**  
[25] EN  
[54] **CARBON BLACKS**  
[54] **NORS DE CARBONE**  
[72] Shieh, Chiung-Huei, US  
[72] Farr, William A., CA  
[72] Mc Elwain, Thomas E., US  
[72] Taylor, Roscoe W., US  
[72] Patterson, William J., US  
[72] Denstaedt, Glenn E., US  
[72] Juengel, Robert, R., US  
[72] Laube, Stephen G., AU  
[73] Cabot Corporation, US  
[85] 1995-08-01  
[86] 1994-02-23 (PCT/US94/02235)  
[87] (WO94/19412)  
[30] US (08/023822) 1993-02-23  
[30] US (08/041,389) 1993-04-01

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[11] **2,157,797**  
[13] C

[51] **Int.Cl. 6E21B 43/18**  
[25] EN  
[54] **GROUNDWATER RECOVERY SYSTEM**  
[54] **SYSTEME DE RECUPERATION DES EAUX SOUTERRAINES**  
[72] Blanchard, Charles Eastman, US  
[72] Mastroianni, John James, US  
[73] International Technology Corporation, US  
[85] 1995-09-07  
[86] 1994-09-13 (PCT/US94/10136)  
[87] (WO95/08043)  
[30] US (08/120,478) 1993-09-13

---

[11] **2,158,006**  
[13] C

[51] **Int.Cl. 6C07C 69/12 6C07C 47/07 6C07C 53/08 6C07C 51/12 6C07C 53/12 6C07C 67/37 6C07C 45/49 6C07C 51/54**  
[25] EN  
[54] **HYDROCARBONYLATION OF DIMETHYL ETHER**  
[54] **HYDROCARBONYLATION D'OXYDE DE DIMETHYLE**  
[72] Studer, David William, US  
[72] Waller, Francis Joseph, US  
[73] Air Products and Chemicals, Inc., US  
[22] 1995-09-11  
[30] US (08/308018) 1994-09-16

---

[11] **2,158,083**  
[13] C

[51] **Int.Cl. 6F16L 59/18**  
[25] EN  
[54] **THERMAL INSULATION FOR ANGLE-VALVE PIPING**  
[54] **CALORIFUGE POUR TUYAUTERIES A ROBINETS D'EQUERRE**  
[72] Trueb, Steven R., US  
[72] Trueb, Thomas W., US  
[73] Truebro, Inc., US  
[22] 1995-09-12  
[30] US (08/426,091) 1995-04-21

---

---

[11] **2,158,509**  
[13] C

[51] **Int.Cl. 6F16H 3/44**  
[25] EN  
[54] **TURBOCHARGER DRIVE AND PLANET BEARING THEREFOR**  
[54] **SYTEME D'ENTRAINEMENT POUR TURBOCOMPRESSEUR ET PALIER**  
[72] Blase, James Leonard, US  
[72] McCreary, Charles Henry, US  
[73] GENERAL MOTORS CORPORATION, US  
[22] 1995-09-18  
[30] US (08/315205) 1994-09-29

---

[11] **2,158,571**  
[13] C

[51] **Int.Cl. 6B05B 12/14 6B05B 5/16**  
[25] FR  
[54] **MACHINE DE PROJECTION DE PRODUIT DE REVETEMENT**  
[54] **MACHINE FOR SPRAYING COATING MATERIAL**  
[72] Ehringer, Pierre, FR  
[72] Merabet, Djamel, FR  
[73] SAMES S.A., FR  
[85] 1995-09-18  
[86] 1994-03-31 (PCT/FR94/00364)  
[87] (WO94/22590)  
[30] FR (93/03829) 1993-04-01

---

[11] **2,159,230**  
[13] C

[51] **Int.Cl. 6H02K 5/24 6H02P 9/00**  
[25] EN  
[54] **NOISE REDUCTION IN A SWITCHED RELUCTANCE MOTOR BY CURRENT PROFILE MANIPULATION**  
[54] **REDUCTION DU BRUIT PAR MANIPULATION DU PROFIL DE COURANT DANS UN MOTEUR A RELUCTANCE COMMUTEE**  
[72] Horst, Gary E., US  
[73] Emerson Electric Co., US  
[22] 1995-09-27

---

Canadian Patents Issued  
August 31, 1999

---

[11] **2,160,662**  
[13] C  
[51] Int.Cl. 6C11D 1/66 6C11D 11/02  
6C11D 17/06 6C11D 3/22 6C11D 3/37  
[25] EN  
[54] STRUCTURING LIQUID  
NONIONIC SURFACTANTS PRIOR TO  
GRANULATION PROCESS  
[54] STRUCTURATION DE  
SURFACTIFS LIQUIDES NON  
IONIQUES AVANT LE PROCEDE DE  
GRANULATION  
[72] York, David William, GB  
[72] Donoghue, Scott John, GB  
[72] Fitzgibbon, Kay Emma, GB  
[72] France, Paul Amaat R.G., BE  
[72] Hall, Robin Gibson, GB  
[72] Schmitt, John Christian, DE  
[72] Wilkinson, Carole Patricia D., BE  
[73] Procter & Gamble Company (The), US  
[85] 1995-10-16  
[86] 1994-04-29 (PCT/US94/04843)  
[87] (WO94/25553)  
[30] EP (93870075.4) 1993-04-30

---

[11] **2,160,840**  
[13] C  
[51] Int.Cl. 6H04S 5/02 6H04S 3/02  
[25] EN  
[54] SURROUND SOUND PROCESSOR  
WITH IMPROVED CONTROL  
VOLTAGE GENERATOR  
[54] PROCESSEUR AUDIO  
D'AMBIANCE A GENERATEUR DE  
TENSION DE COMMANDE AMELIORE  
[72] Fosgate, James W., US  
[73] Harman International Industries, Inc., US  
[22] 1995-10-18

---

[11] **2,161,383**  
[13] C  
[51] Int.Cl. 6G06F 17/40  
[25] EN  
[54] EVENT HISTORY DATA  
ACQUISITION  
[54] ACQUISITION DE DONNEES  
HISTORIQUES SUR DES  
EVENEMENTS  
[72] Greer, David A., US  
[72] Schweikert, David E., US  
[73] WESTINGHOUSE AIR BRAKE  
COMPANY, US  
[22] 1995-10-25  
[30] US (08/520,464) 1995-08-28

---

[11] **2,161,475**  
[13] C  
[51] Int.Cl. 6H04Q 7/18  
[25] EN  
[54] ELECTRONIC DEVICE HAVING  
SELECTABLE ALERT MODES  
[54] DISPOSITIF ELECTRONIQUE A  
MODES D'ALERTE  
SELECTIONNABLES  
[72] Murray, Nancy, US  
[72] Silverman, David Phillip, US  
[73] AT&T Corp., US  
[22] 1995-10-26  
[30] US (359,109) 1994-12-19

---

[11] **2,161,934**  
[13] C  
[51] Int.Cl. 6C09J 123/28 6C09J 7/02  
6C09J 123/16  
[25] EN  
[54] PRESSURE SENSITIVE TAPE FOR  
FORMING WATER-TIGHT FIELD  
JOINTS IN RUBBER MEMBRANES  
[54] RUBAN AUTOCOLLANT POUR  
L'EXECUTION IN SITU DE JOINTS  
DANS DES MEMBRANES  
D'ELASTOMERE  
[72] Cotsakis, Daniel John, US  
[72] Senderling, Ronald Lynn, US  
[72] Shears, Nicholas John, US  
[73] Carlisle Companies Incorporated, US  
[22] 1995-11-01  
[30] US (08/336,590) 1994-11-09

---

[11] **2,162,414**  
[13] C  
[51] Int.Cl. 6H04Q 1/02 6H01R 13/46  
[25] EN  
[54] MODULAR CROSS-CONNECT  
SYSTEM  
[54] SYSTEME D'INTERCONNEXION  
MODULAIRE  
[72] Rutkowski, John Anthony, US  
[72] Spitz, William Tracy, US  
[72] Wright, Stanley Everett, US  
[73] AT&T Corp., US  
[22] 1995-11-08  
[30] US (358,872) 1994-12-23

---

[11] **2,162,931**  
[13] C  
[51] Int.Cl. 6H04M 3/54  
[25] EN  
[54] PERSONAL COMMUNICATION  
USING INTELLIGENT TERMINALS  
[54] COMMUNICATIONS  
PERSONNELLES REALISEES AU  
MOYEN DE TERMINAUX  
INTELLIGENTS  
[72] Carlsen, Ralph, US  
[73] AT&T Corp., US  
[22] 1995-11-15  
[30] US (363,496) 1994-12-23

---

[11] **2,163,120**  
[13] C  
[51] Int.Cl. 6C12N 15/82 6A01H 5/00  
6A01N 63/00  
[25] EN  
[54] METHOD OF CONTROLLING  
INSECTS  
[54] METHODE DE LUTTE CONTRE  
LES INSECTES  
[72] Corbin, David Richard, US  
[72] Greenplate, John Thomas, US  
[72] Purcell, John Patrick, US  
[72] Jennings, Michael Girard, US  
[72] Sammons, Robert Douglas, US  
[73] MONSANTO COMPANY, US  
[85] 1995-11-16  
[86] 1994-06-24 (PCT/US94/07252)  
[87] (WO95/01098)  
[30] US (08/083,948) 1993-06-28

---

[11] **2,163,216**  
[13] C  
[51] Int.Cl. 6A61K 31/55 6A61K 31/40  
6A61K 31/435 6A61K 31/47  
[25] EN  
[54] ANXIOLYTIC AGENT  
[54] AGENT ANXIOLYTIQUE  
[72] Yamamoto, Junji, JP  
[72] Arima, Takashi, JP  
[72] Kasahara, Nobuo, JP  
[72] Nanri, Masato, JP  
[73] TAIHO PHARMACEUTICAL CO.,  
LTD., JP  
[85] 1995-11-17  
[86] 1995-03-28 (PCT/JP95/00575)  
[87] (WO95/26187)  
[30] JP (83,934/1994) 1994-03-28

**Brevets canadiens délivrés  
31 août 1999**

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[11] **2,163,257**  
[13] C

[51] **Int.Cl. 6B41J 2/16**  
[25] EN  
[54] **INK JET PRINthead ASSEMBLY HAVING ALIGNED DUAL INTERNAL CHANNEL ARRAYS**  
[54] **TETE D'IMPRESSION A JET D'ENCRE, A DEUX SERIES DE CANAUX INTERNES ALIGNES**  
[72] Hayes, Donald J., US  
[73] COMPAQ COMPUTER CORPORATION, US  
[85] 1995-11-17  
[86] 1994-05-13 (PCT/US94/05520)  
[87] (WO94/27826)  
[30] US (08/066,390) 1993-05-20

---

[11] **2,164,231**  
[13] C

[51] **Int.Cl. 6H04M 11/08 6G06F 17/40**  
[25] EN  
[54] **SYSTEM FOR ON-DEMAND REMOTE ACCESS TO A SELF-GENERATING AUDIO RECORDING, STORAGE, INDEXING AND TRANSACTION SYSTEM**  
[54] **DISPOSITIF D'ACCES A DISTANCE SUR DEMANDE A UN SYSTEME D'ENREGISTREMENT AUDIO, DE STOCKAGE, D'INDEXATION ET D'EXECUTION DE TRANSACTIONS**  
[72] Pocock, Michael Henry, CA  
[73] Pocock, Michael Henry, CA  
[22] 1995-12-01

---

[11] **2,164,393**  
[13] C

[51] **Int.Cl. 6B26B 19/00 6B26B 19/04**  
[25] EN  
[54] **ELECTRIC HAIR TRIMMER**  
[54] **COUPE-CHEVEUX ELECTRIQUE**  
[72] Masuda, Kesayuki, JP  
[73] Izumi Products Company, JP  
[22] 1995-12-04  
[30] JP (7-2447) 1995-01-11

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[11] **2,165,304**  
[13] C

[51] **Int.Cl. 6A61F 5/56**  
[25] EN  
[54] **SNORING AND SLEEP APNEA DEVICE**  
[54] **DISPOSITIF CONTRE LE RONFLEMENT ET L'APNEE DU SOMMEIL**  
[72] Hilsen, Kenneth L., US  
[73] Hilsen, Kenneth L., US  
[85] 1995-12-14  
[86] 1994-06-14 (PCT/US94/06871)  
[87] (WO94/28832)  
[30] US (08/075,801) 1993-06-14

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[11] **2,165,316**  
[13] C

[51] **Int.Cl. 6B43L 19/00**  
[25] EN  
[54] **CORRECTION TAPE DISPENSER**  
[54] **DISTRIBUTEUR DE RUBAN CORRECTEUR**  
[72] Stevens, Christopher John, GB  
[73] GILLETTE COMPANY (THE), US  
[85] 1995-12-14  
[86] 1994-06-08 (PCT/US94/06585)  
[87] (WO95/00334)  
[30] GB (9312520.1) 1993-06-17

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[11] **2,165,318**  
[13] C

[51] **Int.Cl. 6C07D 215/42 6C07D 491/056 6C07D 221/10 6C07F 7/10 6A01N 55/10 6C07D 401/12 6C07D 405/12 6C07D 409/12 6C07D 411/12 6A01N 43/42 6A01N 43/50 6A01N 43/90**  
[25] EN  
[54] **4-AMINO-2-QUINOLINONE DERIVATIVES**  
[54] **DERIVES DE LA 4-AMINO-2-QUINOLEINONE**  
[72] Pak, Chwang Siek, KR  
[72] Choi, Eun Bok, KR  
[72] Yon, Gyu Hwan, KR  
[72] Yang, Heui Cheol, KR  
[72] Lee, Hyeon Kyu, KR  
[72] Choi, Gyung Ja, KR  
[72] Lee, Ge Hyeong, KR  
[72] Lee, Jin Pyo, KR  
[73] KOREA RESEARCH INSTITUTE OF CHEMICAL TECHNOLOGY, KR  
[85] 1995-12-14  
[86] 1994-06-21 (PCT/KR94/00079)  
[87] (WO95/00488)  
[30] KR (93-11382) 1993-06-22

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[11] **2,165,669**  
[13] C

[51] **Int.Cl. 6C12N 15/82 6C12N 5/10 6C12N 15/54**  
[25] EN  
[54] **FRUIT SPECIFIC PROMOTERS**  
[54] **PROMOTEURS POUR FRUITS**  
[72] Conner, Timothy Wilkes, US  
[73] MONSANTO COMPANY, US  
[85] 1995-12-19  
[86] 1994-06-27 (PCT/US94/07072)  
[87] (WO95/02696)  
[30] US (090,523) 1993-07-12

---

[11] **2,165,801**  
[13] C

[51] **Int.Cl. 6H03M 7/00 6H04B 1/707**  
[25] EN  
[54] **RECEIVER FOR A DIRECT SEQUENCE SPREAD SPECTRUM ORTHOGONALLY ENCODED SIGNAL EMPLOYING RAKE PRINCIPLE**  
[54] **RECEPTEUR DE SIGNAUX CODES ORTHOGONALEMENT AVEC ETALEMENT DU SPECTRE EN SEQUENCE DIRECTE**  
[72] Viterbi, Andrew J., US  
[72] Viterbi, Audrey, US  
[73] QUALCOMM INCORPORATED, US  
[85] 1995-12-20  
[86] 1994-06-22 (PCT/US94/06602)  
[87] (WO95/01008)  
[30] US (083,110) 1993-06-24

---

[11] **2,167,027**  
[13] C

[51] **Int.Cl. 6F25J 1/00 6B63B 27/00 6B63G 8/00 6C01B 31/20**  
[25] EN  
[54] **CO2 SEA BOTTOM THROW-AWAY SYSTEM**  
[54] **SYSTEME DE MISE EN DEPOT DE CO2 SUR LES FONDS MARINS**  
[72] Sonoda, Keisuke, JP  
[72] Ozaki, Masahiko, JP  
[72] Fujioka, Yuichi, JP  
[72] Tsukamoto, Osamu, JP  
[73] MITSUBISHI JUKOGYO KABUSHIKI KAISHA, JP  
[22] 1996-01-11  
[30] JP (7-56728) 1995-02-21

---

Canadian Patents Issued  
August 31, 1999

[11] 2,167,232  
[13] C

[51] Int.Cl. 6A01D 34/62  
[25] EN  
[54] **SPRINGLESS ROLLER SCRAPER MECHANISM**  
[54] **MECANISME RACLEUR DE ROULEAU SANS RESSORT**  
[72] Thorman, Christopher Scott, US  
[72] Swenson, Phillip Orland, US  
[72] Reichen, Ronald Lee, US  
[73] Deere & Company, US  
[22] 1996-01-15  
[30] US (08/498,490) 1995-07-05

[11] 2,167,382  
[13] C

[51] Int.Cl. 6C07D 221/18 6C07D 491/056 6A61K 31/47 6A61K 31/495 6A61K 31/535  
[25] EN  
[54] **NOVEL FUSED INDAN DERIVATIVE AND PHARMACEUTICALLY ACCEPTABLE SALT THEREOF**  
[54] **NOUVEAU DERIVE D'INDANE FUSIONNE ET SEL DUDIT DERIVE ACCEPTABLE PHARMACEUTIQUEMENT**  
[72] Okazaki, Shinji, JP  
[72] Asao, Tetsuji, JP  
[72] Yamada, Yuji, JP  
[72] Wakida, Motoji, JP  
[72] Ishida, Keisuke, JP  
[72] Washinosu, Masato, JP  
[72] Utsugi, Teruhiro, JP  
[73] TAIHO PHARMACEUTICAL CO., LTD., JP  
[85] 1996-01-16  
[86] 1995-05-18 (PCT/JP95/00944)  
[87] (WO95/32187)  
[30] JP (6/107190) 1994-05-20

[11] 2,167,449  
[13] C

[51] Int.Cl. 6A47J 27/08  
[25] EN  
[54] **PRESSURE COOKING DEVICE**  
[54] **DISPOSITIF DE CUISSON SOUS PRESSION**  
[72] Huang, Chin-ming, TW  
[73] Huang, Chin-ming, TW  
[22] 1996-01-17

[11] 2,167,801  
[13] C

[51] Int.Cl. 6H04N 7/173 6H04L 12/54  
[25] EN  
[54] **SYSTEM AND METHOD FOR STORING AND FORWARDING AUDIO AND/OR VISUAL INFORMATION ON DEMAND**  
[54] **SYSTEME ET METHODE DE STOCKAGE ET DE TRANSMISSION A LA DEMANDE D'INFORMATIONS AUDIO ET/OU VIDEO**  
[72] Buhro, William Robert, US  
[72] Radowick, Ernest W., US  
[72] Rogers, John Edward, US  
[73] Electronic Data Systems Corporation, US  
[85] 1996-01-22  
[86] 1994-07-19 (PCT/US94/07995)  
[87] (WO95/04431)  
[30] US (096,098) 1993-07-23

[11] 2,168,163  
[13] C

[51] Int.Cl. 6H02K 29/06  
[25] EN  
[54] **SWITCHED RELUCTANCE MOTOR PROVIDING ROTOR POSITION DETECTION AT HIGH SPEEDS WITHOUT A SEPARATE ROTOR SHAFT POSITION SENSOR**  
[54] **MOTEUR A RELUCTANCE COMMUTABLE, A DETECTION DE LA POSITION DU ROTOR A GRANDE VITESSE SANS CAPTEUR DISTINCT DE POSITION DE L'ARBRE ROTOR**  
[72] Van Sistine, Thomas G., US  
[72] Bartos, Ronald P., US  
[72] Houle, Timothy H., US  
[72] Mehlhorn, William L., US  
[73] A.O. SMITH CORPORATION, US  
[22] 1996-01-26  
[30] US (08/403,990) 1995-03-14

[11] 2,169,040  
[13] C

[51] Int.Cl. 6G01F 23/00 6B67D 5/00 6B67D 1/08  
[25] EN  
[54] **APPARATUS AND ARTICLE FOR DETERMINING AND INDICATING LIQUID CONTENT OF KEGS OR BARRELS**  
[54] **APPAREIL ET ARTICLE SERVANT A DETERMINER ET A INDIQUER LE NIVEAU DU LIQUIDE CONTENU DANS UN BARIL OU UN BARILLET**  
[72] Rohm, Edward J., US  
[73] Rohm, Edward J., US  
[22] 1996-02-07

[11] 2,169,576  
[13] C

[51] Int.Cl. 6C09J 131/04 6B42C 9/00 6C09J 103/02 6C09J 123/08  
[25] EN  
[54] **AQUEOUS ADHESIVE COMPOSITIONS FOR USE IN BINDING BOOKS**  
[54] **COMPOSITIONS ADHESIVES AQUEUSES POUR LA RELIURE DE LIVRES**  
[72] Wieczorek, Joseph, Jr., US  
[72] Mahoney, Lynne M., US  
[73] ABLESTIK LABORATORIES, US  
[22] 1996-02-15  
[30] US (08/388,869) 1995-02-15

[11] 2,169,986  
[13] C

[51] Int.Cl. 6G05B 15/02 6A01D 73/00 6G05B 13/02  
[25] EN  
[54] **PROCESS FOR AUTOMATICALLY CONTROLLING A CROP PROCESSING UNIT**  
[54] **COMMANDE AUTOMATIQUE D'EQUIPEMENT AGRICOLE**  
[72] Herlitzius, Thomas, DE  
[72] Bischoff, Lutz, DE  
[73] Deere & Company, US  
[22] 1996-02-21  
[30] DE (195 06 059.8) 1995-02-22

[11] 2,170,911  
[13] C

[51] Int.Cl. 6F25C 1/00  
[25] EN  
[54] **METHOD AND APPARATUS FOR FORMING AND COLLECTING SURGICAL SLUSH**  
[54] **METHODE ET APPAREIL POUR L'OBTENTION ET LA COLLECTE DE SUSPENSIONS EPAISSES CHIRURGICALES**  
[72] Faries, Durward I., Jr., US  
[72] Licata, Mark, US  
[72] Heymann, Bruce R., US  
[73] O.R. SOLUTIONS, INC., US  
[85] 1996-03-01  
[86] 1994-09-14 (PCT/US94/10100)  
[87] (WO95/08744)  
[30] US (125,279) 1993-09-23

**Brevets canadiens délivrés  
31 août 1999**

---

[11] **2,171,693**  
[13] C

[51] **Int.Cl. 6F02D 43/04**  
[25] EN  
[54] **ENGINE MANAGEMENT SYSTEM**  
[54] **SYSTEME DE GESTION D'UN**  
**MOTEUR**  
[72] Nichols, Angelo H., US  
[73] Applied Computer Engineering, Inc., US  
[22] 1996-03-12  
[30] US (08/402,951) 1995-03-13

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[11] **2,172,097**  
[13] C

[51] **Int.Cl. 6E21B 33/06**  
[25] EN  
[54] **DUAL STRING ASSEMBLY FOR**  
**GAS WELLS**  
[54] **TIGES DE FORAGE DOUBLES**  
**POUR PUIITS DE GAZ**  
[72] Mitchell, Morton Lindsay, CA  
[72] Mitchell, Bryson James, CA  
[72] Mitchell, Blair Orvel, CA  
[73] Versatech International Ltd., CA  
[22] 1996-03-19

---

[11] **2,172,160**  
[13] C

[51] **Int.Cl. 6B60K 31/04**  
[25] EN  
[54] **AUTONOMOUS CRUISE**  
**CONTROL**  
[54] **REGULATEUR AUTONOME DE**  
**VITESSE DE CROISIERE**  
[72] Woll, Jerry, US  
[72] Olds, John, US  
[73] Vorad Safety Systems, Inc., US  
[85] 1996-03-19  
[86] 1994-09-28 (PCT/US94/10883)  
[87] (WO95/10053)  
[30] US (130,585) 1993-10-01

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[11] **2,173,147**  
[13] C

[51] **Int.Cl. 6A61K 31/575 6A23L 1/30**  
[25] EN  
[54] **ANTI-OBESITY AGENT**  
[54] **AGENT ANTI-OBESITE**  
[72] Suzuki, Kunio, JP  
[72] Shimizu, Takeshi, JP  
[72] Nakata, Tadashi, JP  
[72] Enomoto, Kotaro, JP  
[73] INSTITUTE OF PHYSICAL AND  
CHEMICAL RESEARCH (THE), JP  
[85] 1996-03-29  
[86] 1994-09-30 (PCT/JP94/01631)  
[87] (WO95/08995)  
[30] JP (245459/1993) 1993-09-30  
[30] JP (235742/1994) 1994-09-29

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[11] **2,173,328**  
[13] C

[51] **Int.Cl. 6C07D 217/26 6C07D 401/02**  
**6C07D 495/04 6C07D 209/08 6C07D 403/**  
**12 6C07D 409/12 6C07D 417/12 6A61K 31/**  
**165 6C07D 295/215 6A61K 31/395 6C07C**  
**323/42 6C07D 215/48 6C07D 211/62**  
**6C07F 9/62 6A61K 31/675 6C07D 213/81**  
[25] EN  
[54] **HIV PROTEASE INHIBITORS**  
[54] **INHIBITEURS DE LA PROTEASE**  
**DU VIH**  
[72] Dressman, Bruce A., US  
[72] Kalish, Vincent J., US  
[72] Fritz, James E., US  
[72] Reich, Siegfried Heinz, US  
[72] Munroe, John E., US  
[72] Jungheim, Louis N., US  
[72] Hammond, Marlys, US  
[72] Hornback, William J., US  
[72] Rodriguez, Michael J., US  
[72] Shepherd, Timothy A., US  
[72] Kaldor, Stephen W., US  
[72] Tatlock, John H., US  
[73] AGOURON PHARMACEUTICALS,  
INC., US  
[85] 1996-04-02  
[86] 1994-10-07 (PCT/US94/11307)  
[87] (WO95/09843)  
[30] US (08/133,543) 1993-10-07  
[30] US (08/190,764) 1994-02-02  
[30] US (08/133,696) 1993-10-07

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[11] **2,173,437**  
[13] C

[51] **Int.Cl. 6C11D 1/94 6C11D 17/08**  
**6C11D 3/20 6C11D 3/50**  
[25] EN  
[54] **LIQUID HARD SURFACE**  
**DETERGENT COMPOSITIONS**  
**CONTAINING AMPHOTERIC**  
**DETERGENT SURFACTANT AND**  
**PERFUME**  
[54] **COMPOSITIONS DETERGENTES**  
**LIQUIDES POUR SURFACES DURES**  
**CONTENANT UN AGENT**  
**TENSIOACTIF DETERGENT**  
**AMPHOTERE AINSI QU'UN PARFUM**  
[72] Masters, Ronald Anthony, US  
[72] Maile, Michael Stephen, US  
[72] Roetker, Timothy Clair, US  
[73] PROCTER & GAMBLE COMPANY  
(THE), US  
[85] 1996-04-03  
[86] 1994-11-04 (PCT/US94/12744)  
[87] (WO95/13345)  
[30] US (08/151094) 1993-11-12

---

[11] **2,174,490**  
[13] C

[51] **Int.Cl. 6C07D 307/60**  
[25] EN  
[54] **PROCESS FOR THE PRODUCTION**  
**OF PETROCHEMICALS**  
[54] **PROCEDE POUR L'OBTENTION**  
**DE PRODUITS PETROCHIMIQUES**  
[72] Tamhankar, Satish S., US  
[72] Stern, Sidney Simon, US  
[72] Acharya, Divyanshu R., US  
[73] The BOC Group, Inc., US  
[22] 1996-04-18  
[30] US (08/457,003) 1995-06-01

---

[11] **2,175,179**  
[13] C

[51] **Int.Cl. 6A61K 7/40 6A61L 31/00**  
**6A61K 7/50**  
[25] EN  
[54] **NON-AQUEOUS EMOLLIENT**  
**IODOPHOR FORMULATIONS**  
[54] **COMPOSITIONS EMOLLIENTES**  
**IODOPHORES NON AQUEUSES**  
[72] Hoang, Minh Quang, US  
[72] Khan, Mohammad Ali, US  
[73] Becton, Dickinson and Company, US  
[22] 1996-04-26  
[30] US (08/440,288) 1995-05-12



Canadian Patents Issued  
August 31, 1999

[11] 2,175,275  
[13] C

[51] Int.Cl. 6C11D 3/395 6C11D 3/39  
6C11D 1/83  
[25] EN  
[54] AUTOMATIC DISHWASHING  
COMPOSITIONS COMPRISING  
MULTIQUATERNARY BLEACH  
ACTIVATORS  
[54] COMPOSITIONS A BASE  
D'ACTIVATEURS DE BLANCHIMENT  
MULTIQUATERNAIRES POUR LAVE-  
VAISSELLE  
[72] Sivik, Mark Robert, US  
[72] Taylor, Lucille Florence, US  
[72] Burckett-St. Laurent, James C. T. Roger,  
US  
[73] PROCTER & GAMBLE COMPANY  
(THE), US  
[22] 1996-04-29  
[30] US (08/438,126) 1995-05-08

[11] 2,175,396  
[13] C

[51] Int.Cl. 6F27D 1/16  
[25] EN  
[54] METHOD OF INSTALLING A  
REFRACTORY LINING  
[54] METHODE DE POSE D'UN  
REVETEMENT REFRACTAIRE  
[72] Soofi, Madjid, US  
[72] Irwin, James S., US  
[72] Connors, Charles W., Jr., US  
[73] Magneco/Metrel, Inc., US  
[22] 1996-04-30  
[30] US (08/446,436) 1995-05-22

[11] 2,175,401  
[13] C

[51] Int.Cl. 6H01F 1/047 6H01F 1/16  
[25] EN  
[54] MAGNETIC STEEL SHEET  
HAVING EXCELLENT MAGNETIC  
CHARACTERISTICS AND BLANKING  
PERFORMANCE  
[54] TOLE D'ACIER MAGNETIQUE  
AYANT D'EXCELLENTE  
CARACTERISTIQUES MAGNETIQUES  
ET APTITUDES AU DECOUPAGE  
[72] Uenoya, Shigeo, JP  
[72] Tomida, Toshiro, JP  
[73] Sumitomo Metal Industries, Ltd., JP  
[22] 1996-04-30  
[30] JP (108483/1995) 1995-05-02

[11] 2,175,473  
[13] C

[51] Int.Cl. 6G06F 17/60  
[25] EN  
[54] ELECTRONIC BILL PAY SYSTEM  
[54] SYSTEME DE PAIEMENT DE  
FACTURES ELECTRONIQUE  
[72] Hilt, James J., US  
[72] Pardue, Stephen W., US  
[72] Hodges, Ron, US  
[72] Powar, William L., US  
[73] VISA INTERNATIONAL SERVICE  
ASSOCIATION, US  
[85] 1996-04-30  
[86] 1994-10-18 (PCT/US94/11890)  
[87] (WO95/12859)  
[30] US (08/146,515) 1993-11-01

[11] 2,175,781  
[13] C

[51] Int.Cl. 6C07D 307/60 6C07D 303/04  
6C07C 21/06 6C07C 47/07 6C07C 255/08  
6C07D 301/08 6C07C 17/152 6C07C 253/  
24 6C07C 45/34 6C07D 307/89  
[25] EN  
[54] PROCESS FOR THE PRODUCTION  
OF PETROCHEMICALS  
[54] PROCEDE DE PRODUCTION DE  
MATIERES EXTRAITES OU DERIVEES  
DU PETROLE  
[72] Acharya, Divyanshu R., US  
[72] Tamhankar, Satish S., US  
[73] The BOC Group, Inc., US  
[22] 1996-05-03  
[30] US (08/494,293) 1995-06-23

[11] 2,176,344  
[13] C

[51] Int.Cl. 6F16K 11/10  
[25] EN  
[54] VALVE STACK ASSEMBLY  
[54] AGENCEMENT DE VALVES  
JUXTAPOSEES  
[72] Framberg, Norman S., US  
[73] Mead Fluid Dynamics, Inc., US  
[85] 1996-05-10  
[86] 1994-10-31 (PCT/US94/12485)  
[87] (WO95/14875)  
[30] US (156,088) 1993-11-22

[11] 2,176,821  
[13] C

[51] Int.Cl. 6H04L 29/04 6H04L 12/28  
[25] EN  
[54] SYSTEM FOR MANAGING  
NETWORKED COMPUTER  
APPLICATIONS  
[54] SYSTEME DE GESTION  
D'APPLICATIONS INFORMATIQUES  
INTERCONNECTEES  
[72] Berteau, C. Donald, US  
[73] GEONET LIMITED L.P., US  
[85] 1996-05-16  
[86] 1995-02-07 (PCT/US95/01387)  
[87] (WO95/24104)  
[30] US (205,090) 1994-03-03

[11] 2,176,895  
[13] C

[51] Int.Cl. 6C12Q 1/06 6C12Q 1/10  
[25] EN  
[54] TEST KIT AND METHOD FOR THE  
QUANTITATIVE DETERMINATION OF  
COLIFORM BACTERIA AND E. COLI  
[54] TROUSSE ET METHODE POUR  
L'ANALYSE QUANTITATIVE DE  
BACTERIES COLIFORMES ET DE E.  
COLI  
[72] Zomer, Eliezer, US  
[73] Charm Sciences, Inc., US  
[22] 1996-05-17  
[30] US (08/446,039) 1995-05-19

[11] 2,177,210  
[13] C

[51] Int.Cl. 6B43K 8/14  
[25] EN  
[54] OFF-CENTER POINT MARKER  
TIP  
[54] MARQUEUR A POINTE  
EXCENTREE  
[72] Baudino, Rodney J., US  
[73] Sanford Corporation, US  
[22] 1996-05-23  
[30] US (08/485,542) 1995-06-07

**Brevets canadiens délivrés  
31 août 1999**

[11] **2,177,273**  
[13] C

[51] **Int.Cl. 6H04M 1/00 6H04M 1/05**  
[25] FR  
[54] **DISPOSITIF DE COMMUTATION POUR UN POSTE TELEPHONIQUE A COMBINE PERMETTANT LA COMMUTATION D'UN APPAREIL ANNEXE PAR SUBSTITUTION**  
[54] **DEVICE FOR SWITCHING BETWEEN A TELEPHONE HANDSET AND A SUBSTITUTE SECONDARY APPARATUS**  
[72] Parment, Philippe, FR  
[72] Dubournais, Dominique, FR  
[73] PRESCOM, FR  
[85] 1996-05-23  
[86] 1994-11-30 (PCT/FR94/01400)  
[87] (WO95/15642)  
[30] FR (93-14383) 1993-12-01

[11] **2,177,627**  
[13] C

[51] **Int.Cl. 6B61D 17/04 6B61D 13/00**  
[25] EN  
[54] **RAIL-BORNE MOTOR COACH**  
[54] **VEHICULE AUTOMOTEUR SUR RAILS**  
[72] Tegeler, Ferdinand, DE  
[73] ABB DAIMLER-BENZ TRANSPORTATION (TECHNOLOGY) GMBH, DE  
[85] 1996-05-29  
[86] 1995-09-23 (PCT/EP95/03777)  
[87] (WO96/10509)  
[30] DE (G 94 15 771.5 U) 1994-09-30

[11] **2,178,535**  
[13] C

[51] **Int.Cl. 6A01D 34/73**  
[25] EN  
[54] **SHREDDING ATTACHMENT FOR ROTARY CUTTER**  
[54] **ORGANE DE DECHIQUETAGE POUR FRAISE**  
[72] FRIESEN, Henry, CA  
[73] Deere & Company, US  
[22] 1996-06-07  
[30] US (08/521,000) 1995-08-30

[11] **2,178,676**  
[13] C

[51] **Int.Cl. 6A41D 1/20 6A47G 9/02 6A41B 13/06**  
[25] EN  
[54] **COMBINATION NURSING BLANKET AND CRADLING AID**  
[54] **COMBINAISON D'UNE COUVERTURE ET D'UN MANCHON TUBULAIRE POUR L'ALLAITEMENT**  
[72] Larson, Karen Marie, CA  
[72] Larson, Darlene Rose, CA  
[73] Larson, Karen Marie, CA  
[73] Larson, Darlene Rose, CA  
[22] 1996-06-10

[11] **2,178,679**  
[13] C

[51] **Int.Cl. 6B41M 5/20 6B41F 16/00 6B41F 5/22 6B41J 2/385**  
[25] EN  
[54] **ELECTROCOAGULATION PRINTING APPARATUS**  
[54] **DISPOSITIF D'IMPRESSON A ELECTROCOAGULATION**  
[72] Castegnier, Adrien, CA  
[72] Lepine, Normand, CA  
[72] Laplante, Christian, CA  
[72] Gadbois, Gilles, CA  
[73] ELCORSY TECHNOLOGY INC., CA  
[22] 1996-06-10

[11] **2,179,676**  
[13] C

[51] **Int.Cl. 6F04B 37/08 6F04B 15/00**  
[25] EN  
[54] **CRYOGENIC PUMP SYSTEM**  
[54] **SYSTEME POUR CRYOPOMPES**  
[72] Borcuch, John Patrick, US  
[72] White, Norman Henry, US  
[72] DeMarco, Francis Ward, US  
[73] PRAXAIR TECHNOLOGY, INC., US  
[22] 1996-06-21  
[30] US (08/498,809) 1995-07-06

[11] **2,179,964**  
[13] C

[51] **Int.Cl. 6B05B 5/053**  
[25] EN  
[54] **ELECTROSTATIC SPRAY APPLIANCE FOR COATING MATERIAL**  
[54] **APPAREIL DE PULVERISATION ELECTROSTATIQUE D'UN MATERIAU DE REVETEMENT**  
[72] Buschor, Karl, CH  
[73] GEMA VOLSTATIC AG, CH  
[22] 1996-06-26  
[30] DE (195 28 398.8) 1995-08-02

[11] **2,180,323**  
[13] C

[51] **Int.Cl. 6B60R 21/04 6B60R 13/02**  
[25] EN  
[54] **COLLISION ENERGY ABSORBING STRUCTURE BY VEHICLE INTERIOR TRIM MATERIAL**  
[54] **STRUCTURE D'ABSORPTION DE L'ENERGIE ASSOCIEE AU MATERIAU DANS LA GARNITURE INTERIEURE D'UN VEHICULE**  
[72] Suga, Hitoshi, JP  
[73] Toyota Jidosha Kabushiki Kaisha, JP  
[22] 1996-07-02  
[30] JP (7-197926) 1995-07-12

[11] **2,180,476**  
[13] C

[51] **Int.Cl. 6B01J 21/20 6B01J 21/18 6B01J 20/34 6B01D 53/52 6B01D 53/96**  
[25] EN  
[54] **PROCESS FOR REGENERATING NITROGEN-TREATED CARBONACEOUS CHARS USED FOR HYDROGEN SULFIDE REMOVAL**  
[54] **PROCEDE DE REGENERATION DE CHARBON CARBONE TRAITE A L'AZOTE UTILISE POUR L'EXTRACTION D'ACIDE SULFHYDRIQUE**  
[72] Butterworth, Steven L., US  
[72] Hayden, Richard A., US  
[73] Calgon Carbon Corporation,  
[85] 1996-07-03  
[86] 1995-03-29 (PCT/US95/03858)  
[87] (WO95/26230)  
[30] US (219,625) 1994-03-29

Canadian Patents Issued  
August 31, 1999

[11] 2,181,994  
[13] C

[51] Int.Cl. 6H04Q 3/64  
[25] EN  
[54] WORK AT HOME AGENT ACD  
CALL DISTRIBUTION  
[54] SYSTEME AUTOMATIQUE DE  
REPARTITION D'APPELS DE  
PERSONNES PRATIQUANT LE  
TELETRAVAIL  
[72] Sand, Paul Raymond, US  
[73] AT&T CORP., US  
[85] 1996-07-24  
[86] 1994-06-15 (PCT/US94/06765)  
[87] (WO95/20860)  
[30] US (189,477) 1994-01-31

[11] 2,183,314  
[13] C

[51] Int.Cl. 6C07D 471/04 6C07D 487/04  
6C07D 498/04 6C07D 513/04 6C07D 491/  
147 6A61K 31/55  
[25] EN  
[54] NOVEL 2-SUBSTITUTED INDANE-  
2-MERCAPTOACETYLAMIDE  
DISULFIDE DERIVATIVES USEFUL AS  
INHIBITORS OF ENKEPHALINASE  
AND ACE  
[54] NOUVEAUX DERIVES BISULFURE  
D'IDANE-2-  
MERCAPTOACETYLAMIDES  
SUBSTITUES EN POSITION 2, UTILES  
COMME INHIBITEURS DE  
L'ENCEPHALINASE ET DE L'ENZYME  
DE CONVERSION DE  
L'ANGIOTENSINE (ACE)  
[72] French, John F., JP  
[72] Warshawsky, Alan M., US  
[72] Mehdi, Shujaath, US  
[72] Beight, Douglas W., US  
[72] Kehne, John H., US  
[72] Flynn, Gary A., US  
[73] MERRELL PHARMACEUTICALS  
INC., US  
[85] 1996-08-14  
[86] 1994-12-13 (PCT/US94/14338)  
[87] (WO95/21857)  
[30] US (08/195,526) 1994-02-14

[11] 2,183,315  
[13] C

[51] Int.Cl. 6C07D 223/16 6C07D 491/056  
6C07D 401/12 6C07D 403/12 6C07D 405/  
12 6C07D 409/12 6C07D 413/12 6C07D  
417/12 6A61K 31/55  
[25] EN  
[54] NOVEL  
MERCAPTOACETYLAMIDO 1,3,4,5-  
TETRAHYDRO-BENZO-C|AZEPIN-3-  
ONE DISULFIDE DERIVATIVES  
USEFUL AS INHIBITORS OF  
ENKEPHALINASE AND ACE  
[54] NOUVEAUX DERIVES BISULFURE  
DE MERCAPTOACETYLAMIDO 1,3,4,5-  
TETRAHYDRO-BENZO-C|AZEPINE-3-  
ONE UTILES EN TANT  
QU'INHIBITEURS DE  
L'ENKEPHALINASE ET DE L'ENZYME  
DE CONVERSION DE  
L'ANGIOTENSINE  
[72] Mehdi, Shujaath, US  
[72] Warshawsky, Alan M., US  
[72] Flynn, Gary A., US  
[72] Beight, Douglas W., US  
[72] Kehne, John H., US  
[72] French, John F., JP  
[73] MERRELL PHARMACEUTICALS  
INC., US  
[85] 1996-08-14  
[86] 1995-01-09 (PCT/US95/00279)  
[87] (WO95/21854)  
[30] US (08/195,407) 1994-02-14  
[30] US (08/226,799) 1994-04-12

[11] 2,184,950  
[13] C

[51] Int.Cl. 6E01C 23/085 6E01H 5/12  
[25] EN  
[54] ROAD RESURFACING SYSTEM  
[54] SYSTEME DE RECHARGEMENT  
DE CHAUSSEES  
[72] Culver, Larry G., CA  
[73] ROAD BADGER INC., CA  
[22] 1996-09-06

[11] 2,185,142  
[13] C

[51] Int.Cl. 6F16K 31/128  
[25] EN  
[54] PRESSURE BALANCING DEVICE  
[54] DISPOSITIF D'EQUILIBRAGE DE  
LA PRESSION  
[72] Knapp, Alfons, DE  
[73] Masco Corporation of Indiana, US  
[85] 1996-09-09  
[86] 1996-01-11 (PCT/US96/00494)  
[87] (WO96/21819)  
[30] IT (TO95A000008) 1995-01-10

[11] 2,185,900  
[13] C

[51] Int.Cl. 6B26B 21/40  
[25] EN  
[54] SAFETY RAZORS  
[54] RASOIRS DE SURETE  
[72] Wain, Kevin James, GB  
[72] Brown, Frank Edward, GB  
[73] Gillette Company (The), US  
[85] 1996-09-18  
[86] 1995-04-04 (PCT/GB95/00777)  
[87] (WO95/29043)  
[30] GB (9407896.1) 1994-04-21

[11] 2,185,997  
[13] C

[51] Int.Cl. 6A62C 35/68  
[25] EN  
[54] PIPEWORK FOR SPRINKLER  
SYSTEMS  
[54] TUYAUTERIE POUR  
INSTALLATIONS A TETES  
D'EXTINCTION AUTOMATIQUES  
[72] Vieregge, Uwe, DE  
[73] Vieregge, Uwe, DE  
[85] 1996-09-19  
[86] 1995-03-13 (PCT/EP95/00924)  
[87] (WO95/25923)  
[30] DE (P 44 09 904.5) 1994-03-23

[11] 2,186,186  
[13] C

[51] Int.Cl. 6H01Q 9/26  
[25] EN  
[54] BROADBAND ANTENNA USING A  
SEMICIRCULAR RADIATOR  
[54] ANTENNE A LARGE BANDE  
UTILISANT UN RADIATEUR  
SEMICIRCULAIRE  
[72] Ihara, Taisuke, JP  
[72] Kijima, Makoto, JP  
[72] Tsunekawa, Koichi, JP  
[73] NTT Mobile Communications Network  
Inc., JP  
[22] 1996-09-23  
[30] JP (249712/95) 1995-09-27  
[30] JP (321906/95) 1995-12-11

**Brevets canadiens délivrés  
31 août 1999**

---

[11] **2,186,537**  
[13] C

[51] **Int.Cl. 6B25G 3/30 6B25G 3/12 6A01B 1/22**  
[25] EN  
[54] **TOOL HANDLE MOUNTING STRUCTURE FOR GARDEN TOOLS**  
[54] **DISPOSITIF DE MONTAGE POUR ARTICLES DE JARDIN**  
[72] Hsu, Chun-Li, TW  
[73] Hsu, Chun-Li, TW  
[22] 1996-09-26

---

[11] **2,186,834**  
[13] C

[51] **Int.Cl. 6C09D 5/02 6C09D 127/00 6C09D 133/02 6C09D 133/04 6C09D 7/12**  
[25] EN  
[54] **ONE-COAT, WATERBORNE COATING SYSTEM FOR UNTREATED POLYPROPYLENE BASED SUBSTRATES**  
[54] **SYSTEME DE REVETEMENT AQUEUX, MONOCOUCHE, POUR SUBSTRATS A BASE DE POLYPROPYLENE NON TRAITES**  
[72] Bugajski, James, US  
[72] Kooy, Robert, US  
[72] Moeller, Raymond, J., US  
[72] Jackson, Michael L., US  
[73] Bee Chemical Company, US  
[22] 1996-09-30  
[30] US (60/006,754) 1995-11-15  
[30] US (08/648,783) 1996-05-16

---

[11] **2,187,284**  
[13] C

[51] **Int.Cl. 6E04C 2/26 6F16B 15/00 6B29C 43/18 6E04B 2/84**  
[25] EN  
[54] **HIGHLY INSULATIVE CONNECTOR RODS AND METHODS FOR THEIR MANUFACTURE AND USE IN HIGHLY INSULATED COMPOSITE WALLS**  
[54] **TIGES DE LIAISON FORTEMENT ISOLANTES, LEURS PROCEDES DE FABRICATION ET LEUR UTILISATION DANS DES PAROIS COMPOSITES FORTEMENT ISOLEES**  
[72] Keith, David O., US  
[72] Hansen, David M., US  
[73] H.K. COMPOSITES, INC., US  
[85] 1996-10-07  
[86] 1995-03-28 (PCT/US95/03842)  
[87] (WO95/27835)  
[30] US (08/225,910) 1994-04-08

---

---

[11] \* **2,187,843**  
[13] C

[51] **Int.Cl. 6G01V 1/153**  
[25] EN  
[54] **SWINGING-WEIGHT VIBRATOR FOR SEISMIC EXPLORATION**  
[54] **SYSTEME DE VIBRATEURS A MASSE VARIABLE SERVANT A L'EXPLORATION SISMIQUE**  
[72] Anstey, Nigel A., GB  
[73] Anstey, Nigel A., GB  
[22] 1996-10-15  
[30] GB (9524689.8) 1995-12-02

---

[11] **2,188,026**  
[13] C

[51] **Int.Cl. 6B05B 9/04**  
[25] EN  
[54] **TWIN TUBE LOCKING ASSEMBLY**  
[54] **ENSEMBLE DE SERRAGE POUR TUYAUX JUMEALES**  
[72] Anderson, Richard P., US  
[72] Steinberg, Timothy D., US  
[72] Svendsen, John M., US  
[73] Wagner Spray Tech Corporation, US  
[85] 1996-10-16  
[86] 1995-04-17 (PCT/US95/04505)  
[87] (WO95/28231)  
[30] US (229,240) 1994-04-18

---

[11] **2,188,434**  
[13] C

[51] **Int.Cl. 6C12N 1/38 6C12P 21/02**  
[25] EN  
[54] **METHOD FOR CONTROLLING METALLOPHOSPHATE PRECIPITATION IN HIGH CELL DENSITY FERMENTATIONS**  
[54] **PROCEDE DE REDUCTION DE LA PRECIPITATION AU METALLOPHOSPHATE DANS DES FERMENTATIONS A HAUTE DENSITE CELLULAIRE**  
[72] Curless, Craig Eric, US  
[72] Baclaski, Jeffrey Burke, US  
[73] Amgen Inc., US  
[85] 1996-10-21  
[86] 1995-04-27 (PCT/US95/05294)  
[87] (WO95/29986)  
[30] US (08/235,573) 1994-04-28

---

---

[11] **2,188,592**  
[13] C

[51] **Int.Cl. 6B23K 11/06**  
[25] EN  
[54] **SEAM WELDING METHOD AND SEAM WELDING APPARATUS**  
[54] **PROCEDE ET APPAREIL DE SOUDAGE A LA MOLETTE**  
[72] Fukushima, Toshihiro, JP  
[72] Tanzawa, Masaki, JP  
[72] Kondou, Nobuhide, JP  
[72] Natsumi, Fumiaki, JP  
[72] Toda, Munetaka, JP  
[73] TOYOTA JIDOSHA KABUSHIKI KAISHA, JP  
[85] 1996-10-22  
[86] 1996-02-13 (PCT/JP96/00302)  
[87] (WO96/26036)  
[30] JP (7/59758) 1995-02-22

---

[11] **2,192,095**  
[13] C

[51] **Int.Cl. 6C12Q 1/68 6G01N 33/531 6G01N 33/543**  
[25] EN  
[54] **METHOD AND APPARATUS FOR FABRICATING MICROARRAYS OF BIOLOGICAL SAMPLES**  
[54] **METHODE ET APPAREIL POUR OBTENIR DES MICRODISTRIBUTIONS D'ECHANTILLONS BIOLOGIQUES**  
[72] Shalon, Tidhar Dari, US  
[72] Brown, Patrick O., US  
[73] Board of Trustees of the Leland Stanford Junior University (The), US  
[22] 1995-06-16  
[30] US (08/261,388) 1994-06-17  
[30] US (08/477,809) 1995-06-07

---

[11] **2,193,067**  
[13] C

[51] **Int.Cl. 6A41F 3/00**  
[25] EN  
[54] **SUSPENDERS THAT SUPPORT PANTS WITH BELT**  
[54] **BRETELLES SUPPORTANT DES PANTALONS POURVUS D'UNE CEINTURE**  
[72] Perry, Don A., US  
[73] Perry, Don A., US  
[85] 1996-12-16  
[86] 1995-06-14 (PCT/US95/07582)  
[87] (WO95/35045)  
[30] US (08/262,245) 1994-06-17

---

Canadian Patents Issued  
August 31, 1999

[11] 2,193,077  
[13] C

[51] Int.Cl. 6H04M 11/00  
[25] EN  
[54] **TELEMETRY ACCESS ARRANGEMENT**  
[54] **TELERELEVÉ DE COMPTEURS**  
[72] Garland, Stuart Mandel, US  
[72] Schull, Jerome W., US  
[73] AT&T CORP., US  
[73] BELLSOUTH CORPORATION, US  
[85] 1996-12-16  
[86] 1995-01-26 (PCT/US95/01173)  
[87] (WO96/01018)  
[30] US (266,831) 1994-06-28

[11] 2,194,345  
[13] C

[51] Int.Cl. 6B65H 29/12 6G07D 13/00  
**6B65H 5/02**  
[25] EN  
[54] **BILL HANDLING MACHINE**  
[54] **APPAREIL DE MANUTENTION DE BILLETS DE BANQUE**  
[72] Arikawa, Junichi, JP  
[72] Atsumi, Hideo, JP  
[72] Inage, Toru, JP  
[72] Iida, Wataru, JP  
[72] Katoh, Yoshiyuki, JP  
[73] Laurel Bank Machines Co., Ltd., JP  
[22] 1997-01-03  
[30] JP (43528/1996) 1996-02-29

[11] 2,195,966  
[13] C

[51] Int.Cl. 6E21B 43/267 6E21B 43/04  
[25] EN  
[54] **METHOD OF FRACTURING AND PROPPING A FORMATION**  
[54] **PROCEDE POUR FRACTURER ET POUR SOUTENIR UNE FORMATION**  
[72] Jones, Lloyd G., US  
[73] Mobil Oil Corporation, US  
[85] 1997-01-24  
[86] 1995-06-23 (PCT/US95/08885)  
[87] (WO96/04463)  
[30] US (08/286,367) 1994-08-05

[11] 2,196,724  
[13] C

[51] Int.Cl. 6B65H 29/20 6G07F 19/00  
**6B65H 29/12**  
[25] EN  
[54] **BILL HANDLING MACHINE**  
[54] **APPAREIL DE MANUTENTION DE BILLETS DE BANQUE**  
[72] Inage, Toru, JP  
[72] Iida, Wataru, JP  
[72] Katoh, Yoshiyuki, JP  
[72] Arikawa, Junichi, JP  
[72] Atsumi, Hideo, JP  
[73] LAUREL BANK MACHINES CO., LTD., JP  
[22] 1997-02-04  
[30] JP (43529/1996) 1996-02-29

[11] 2,196,725  
[13] C

[51] Int.Cl. 6B65H 31/26 6G07F 19/00  
**6B65H 29/22 6B65H 31/34**  
[25] EN  
[54] **BILL HANDLING MACHINE**  
[54] **APPAREIL DE MANUTENTION DE BILLETS DE BANQUE**  
[72] Arikawa, Junichi, JP  
[72] Katoh, Yoshiyuki, JP  
[72] Inage, Toru, JP  
[72] Atsumi, Hideo, JP  
[72] Iida, Wataru, JP  
[73] LAUREL BANK MACHINES CO., LTD., JP  
[22] 1997-02-04  
[30] JP (43527/1996) 1996-02-29  
[30] JP (329788/1996) 1996-12-10

[11] 2,199,673  
[13] C

[51] Int.Cl. 6C09B 17/00  
[25] EN  
[54] **WATER-REDUCIBLE NIGROSINE DYE COMPOSITIONS**  
[54] **COMPOSITIONS DE COLORANT DE NIGROSINE HYDROREDUCTIBLE**  
[72] CAPUTO, Peter A., US  
[72] ZIMIN, Alejandro, Sr., US  
[73] MORTON INTERNATIONAL, INC., US  
[22] 1997-03-11  
[30] US (08/629,127) 1996-04-08

[11] 2,202,638  
[13] C

[51] Int.Cl. 6G01V 3/12 6G01S 13/10  
**6G01S 7/285 6G01V 3/38 6G01S 13/88**  
[25] EN  
[54] **SYSTEM AND METHOD FOR EARTH PROBING WITH DEEP SUBSURFACE PENETRATION USING LOW FREQUENCY ELECTROMAGNETIC SIGNALS**  
[54] **SYSTEME ET PROCEDE DE SONDAGE A FORTE PENETRATION SOUTERRAINE A L'AIDE DE SIGNAUX ELECTROMAGNETIQUES BASSE FREQUENCE**  
[72] BROWN, Russell D., US  
[72] VAN ETEN, Paul, US  
[73] BROWN, Russell D., US  
[73] VAN ETEN, Paul, US  
[85] 1997-04-14  
[86] 1994-10-17 (PCT/US94/11769)  
[87] (WO96/12200)

[11] 2,204,218  
[13] C

[51] Int.Cl. 6H02J 9/06  
[25] EN  
[54] **METHOD AND APPARATUS FOR OPERATING LED ARRAY AND CHARGING CIRCUIT FOR EMERGENCY LED OPERATION INCLUDING DC BOOST CIRCUIT ALLOWING SERIES CONNECTION OF LED ARRAY AND BATTERY**  
[54] **PROCEDE ET APPAREIL DE MISE EN CIRCUIT D'UN ENSEMBLE DE DIODES ELECTROLUMINESCENTES, AINSI QU'UN CIRCUIT DE CHARGEMENT POUR LEUR UTILISATION EN SITUATION D'URGENCE A L'AIDE D'UN CIRCUIT DE CHARGE DC PERMETTANT LA CONNEXION EN SERIE DE L'ENSEMBLE DE DIODES ELECTROLUMINESCENTES ET D'UN ACCUMULATEUR**  
[72] JOHNSON, James C., US  
[73] NSI ENTERPRISES, INC., US  
[22] 1997-05-01  
[30] US (08/675,109) 1996-07-03

**Brevets canadiens délivrés  
31 août 1999**

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[11] **2,208,330**  
[13] C

[51] **Int.Cl. 6H02M 7/515 6H02J 9/00**  
[25] EN  
[54] **CONTROLLER FOR POWER TRANSDUCERS**  
[54] **CONTROLEUR POUR TRANSDUCTEURS DE PUISSANCE**  
[72] SANADA, Kazunori, JP  
[73] MITSUBISHI DENKI KABUSHIKI KAISHA, JP  
[22] 1997-06-20  
[30] JP (9-22418) 1997-02-05

---

[11] **2,214,896**  
[13] C

[51] **Int.Cl. 6B42B 5/00**  
[25] EN  
[54] **METHOD OF FOLDING A SIGNATURE FOR USE IN BOOKBINDING**  
[54] **PROCEDE DE PLIAGE DE FEUILLES DESTINE A LA RELIURE**  
[72] BELLANCA, Joseph V., US  
[73] BELLANCA, Joseph V., US  
[85] 1997-09-08  
[86] 1996-03-14 (PCT/US96/03509)  
[87] (WO96/29206)  
[30] US (08/412,311) 1995-03-20

---

[11] **2,218,600**  
[13] C

[51] **Int.Cl. 6E04B 2/86 6E04G 11/06 6E04G 11/08**  
[25] EN  
[54] **MODULAR FORMWORK ELEMENTS AND ASSEMBLY**  
[54] **ELEMENTS DE COFFRAGE MODULAIRES ET METHODE D'ASSEMBLAGE**  
[72] PICCONE, Francesco, CA  
[73] THE GLOBAL ENGINEERING TRUST, BB  
[22] 1997-10-17

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---

[11] **2,218,755**  
[13] C

[51] **Int.Cl. 6C12N 5/18 6C07K 16/28**  
[25] EN  
[54] **MONOCLONAL ANTIBODY TO HUMAN BETA 2 INTEGRIN ALPHA SUBUNIT**  
[54] **ANTICORPS MONOCLONAL ANTI-SOUS-UNITE ALPHA DE L'INTEGRINE BETA 2 HUMAINE**  
[72] GALLATIN, W. Michael, US  
[72] VAN DER VIEREN, Monica, US  
[73] ICOS CORPORATION, US  
[85] 1997-10-21  
[86] 1997-02-24 (PCT/US97/02713)  
[87] (WO97/31099)  
[30] US (08/605,672) 1996-02-22

---

[11] **2,223,067**  
[13] C

[51] **Int.Cl. 6B61L 29/08**  
[25] EN  
[54] **HIGHWAY CROSSING GUARD MECHANISM CONTROLLER**  
[54] **COMMANDE DU MECANISME DES BARRIERES AUX PASSAGES A NIVEAU**  
[72] WILLIAMSON, N. Rodgers Jr., US  
[72] JONES, Richard S., US  
[73] Union Switch & Signal Inc., US  
[22] 1997-12-01  
[30] US (790,777) 1997-01-30

---

[11] **2,237,001**  
[13] C

[51] **Int.Cl. 6E01H 5/09 6A01B 13/08**  
[25] EN  
[54] **FROZEN TOP SOIL CUTTER**  
[54] **OUTIL DE DECAPAGE DE SOLS GELES**  
[72] BIEGEL, Brent C., CA  
[72] BIEGEL, Douglas A., CA  
[72] BIEGEL, Jeffrey D., CA  
[73] BIEGEL, Brent C., CA  
[73] BIEGEL, Douglas A., CA  
[73] BIEGEL, Jeffrey D., CA  
[22] 1998-07-10  
[30] US (09/099,558) 1998-06-18

**Canadian Patents Issued  
August 31, 1999**

# Canadian Laid-Open Applications

July 18, 1999 - July 24, 1999

## Demands canadiennes mises à la disponibilité du public

18 juillet 1999 - 24 juillet 1999

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[21] **2,220,119**  
[13] A1  
[51] **Int.Cl. 6A01K 87/00 6F21V 33/00**  
[25] EN  
[54] **LUMINATING LIGHTENING STICK**  
[54] **TIGE LUMINEUSE**  
[72] DeCARLO, Ricky Thomas, CA  
[71] DeCARLO, Ricky Thomas, CA  
[22] 1998-01-20  
[43] 1999-07-20

---

[21] **2,220,122**  
[13] A1  
[51] **Int.Cl. 6G04B 19/06**  
[25] EN  
[54] **RANDOM TIME**  
[54] **HORLOGE ALEATOIRE**  
[72] SMITH, Mark David, CA  
[71] SMITH, Mark David, CA  
[22] 1998-01-20  
[43] 1999-07-20

---

[21] **2,220,858**  
[13] A1  
[51] **Int.Cl. 6F02B 27/04 6F02D 45/00**  
[25] EN  
[54] **A PRECISE, CONTROLLED EXHAUST/INTAKE SYSTEM FOR THE INTERNAL COMBUSTION ENGINE**  
[54] **SYSTEME DE CONTROLE PRECIS D'ADMISSION/D'ECHAPPEMENT D'UN MOTEUR A COMBUSTION INTERNE**  
[72] TAYLOR, Lloyd, CA  
[71] TAYLOR, Lloyd, CA  
[22] 1998-01-19  
[43] 1999-07-19

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[21] **2,220,864**  
[13] A1  
[51] **Int.Cl. 6A61F 2/06**  
[25] EN  
[54] **BIFSTENT**  
[54] **TUTEUR POUR LESIONS BIFURQUEES**  
[72] HUQ, Nisar, CA  
[71] HUQ, Nisar, CA  
[22] 1998-01-20  
[43] 1999-07-20

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[21] **2,220,870**  
[13] A1  
[51] **Int.Cl. 6G06F 1/16**  
[25] EN  
[54] **EQUIPMENT SECURITY APPARATUS**  
[54] **DISPOSITIF D'EQUIPEMENT DE SECURITE**  
[72] LAFLEUR, André, CA  
[72] BUISSIERE, Eric, CA  
[72] VÉZINA, Donald, CA  
[72] PATENAUDE, Pierre, CA  
[71] LAFLEUR, André, CA  
[71] BUISSIERE, Eric, CA  
[71] VÉZINA, Donald, CA  
[71] PATENAUDE, Pierre, CA  
[22] 1998-01-20  
[43] 1999-07-20

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[21] **2,220,874**  
[13] A1  
[51] **Int.Cl. 6H05B 3/00 6H05B 1/02**  
[25] EN  
[54] **HEATED HYDRO POWER LINE**  
[54] **LIGNE HYDRO-ELECTRIQUE CHAUFFANTE**  
[72] BARDHAN, Bibhuti Bhusan, CA  
[71] BARDHAN, Bibhuti Bhusan, CA  
[22] 1998-01-20  
[43] 1999-07-20

---

[21] **2,220,882**  
[13] A1  
[51] **Int.Cl. 6E02B 15/04 6E02B 15/10 6E04H 4/16**  
[25] EN  
[54] **SKIMMER AND SKIMMER HEADS FOR OIL AND OTHER FLOATING MATTER**  
[54] **ECREMEUR ET TETES D'ECREMEUR PERMETTANT DE RECUPERER DU PETROLE ET D'AUTRES MATIERES FLOTTANTES**  
[72] MEIER, Detlef G., CA  
[71] MEIER, Detlef G., CA  
[22] 1998-01-20  
[43] 1999-07-20

---

[21] **2,220,885**  
[13] A1  
[51] **Int.Cl. 6B63B 22/00 6B09B 3/00**  
[25] EN  
[54] **ENVIRONMENTALLY COMPATIBLE MARINE FLOAT**  
[54] **FLOTTEUR MARITIME COMPATIBLE AVEC L'ENVIRONNEMENT**  
[72] JIBB, Brian, CA  
[71] JIBB, Brian, CA  
[22] 1998-01-20  
[43] 1999-07-20

---

[21] **2,220,888**  
[13] A1  
[51] **Int.Cl. 6A61H 3/02**  
[25] EN  
[54] **ADJUSTABLE CRUTCH**  
[54] **STABILISATEUR POUR ESCALIERS**  
[72] COLE, Cora, CA  
[72] MUSIAL, Tom, CA  
[71] COLE, Cora, CA  
[71] MUSIAL, Tom, CA  
[22] 1998-01-20  
[43] 1999-07-20



Canadian Laid-Open Applications  
July 18, 1999 - July 24, 1999

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[21] 2,220,890  
[13] A1  
[51] Int.Cl. 6F17D 1/02 6F28D 21/00  
6F16L 55/00 6A01G 9/24  
[25] EN  
[54] SYSTEM AND METHOD FOR  
RECOVERY OF WASTE HEAT FROM  
PIPELINES  
[54] SYSTEME ET METHODE DE  
RECUPERATION DE LA CHALEUR  
PERDUE PAR LES PIPELINES  
[72] CROSSMAN, William Herbert, CA  
[71] CROSSMAN, William Herbert, CA  
[22] 1998-01-20  
[43] 1999-07-20

---

[21] 2,220,896  
[13] A1  
[51] Int.Cl. 6E04H 17/14 6E06B 11/02  
6E05F 15/16  
[25] EN  
[54] THE ELECTRONIC BAR  
[54] BARRIERE ELECTRONIQUE  
[72] BUJALSKI, Wlodzimierz, CA  
[71] BUJALSKI, Wlodzimierz, CA  
[22] 1998-01-20  
[43] 1999-07-20

---

[21] 2,221,021  
[13] A1  
[51] Int.Cl. 6A47G 29/12  
[25] EN  
[54] OLIVER NEWSPAPER MAIL-TEC  
[54] AVERTISSEUR D'ARRIVEE DE  
JOURNAL  
[72] REDMAN, Carl O., CA  
[71] REDMAN, Carl O., CA  
[22] 1998-01-20  
[43] 1999-07-20

---

[21] 2,221,022  
[13] A1  
[51] Int.Cl. 6G01N 1/16 6A01F 25/00  
[25] EN  
[54] EDMUNDS GRAIN BIN SAMPLER  
[54] DISPOSITIF POUR  
ECHANTILLONNER LE GRAIN  
[72] EDMUNDS, Glen, CA  
[71] EDMUNDS, Glen, CA  
[22] 1998-01-20  
[43] 1999-07-20

---

[21] 2,221,036  
[13] A1  
[51] Int.Cl. 6A47H 3/00  
[25] EN  
[54] POLY SHOWER CURTAIN  
[54] RIDEAU DE DOUCHE POLY  
[72] MORRIS, Blaine, CA  
[71] MORRIS, Blaine, CA  
[22] 1998-01-20  
[43] 1999-07-20

---

[21] 2,221,061  
[13] A1  
[51] Int.Cl. 6H01R 13/62 6H01R 13/58  
[25] EN  
[54] UNNAMED  
[54] SANS NOM  
[72] ZUBRISKI, Bruce Anthony, CA  
[71] ZUBRISKI, Bruce Anthony, CA  
[22] 1998-01-22  
[43] 1999-07-22

---

[21] 2,221,064  
[13] A1  
[51] Int.Cl. 6A63B 5/20  
[25] EN  
[54] SKIPPING CABLE FOR INDOOR  
AND OUTDOOR SKIPPING AND SKIP  
JOGGING  
[54] CABLE A SAUTER POUR  
L'INTERIEUR ET L'EXTERIEUR ET  
POUR LE JOGGING A SAUTS  
[72] KOSKINEN, Jarmo O., CA  
[71] KOSKINEN, Jarmo O., CA  
[22] 1998-01-22  
[43] 1999-07-22

---

[21] 2,221,066  
[13] A1  
[51] Int.Cl. 6A47K 13/30 6E03D 9/02  
[25] EN  
[54] DISINFECTING TOILET SEAT  
SYSTEM  
[54] SYSTEME DE DESINFECTION  
POUR SIEGES DE TOILETTE  
[72] YEUNG, Shu-Ki, CA  
[71] YEUNG, Shu-Ki, CA  
[22] 1998-01-22  
[43] 1999-07-22

---

[21] 2,221,067  
[13] A1  
[51] Int.Cl. 6A63B 59/14  
[25] EN  
[54] GOALIE HOCKEY STICK :  
CONCAVE CURVATURE ALONG THE  
LONGITUDINAL AXIS OF THE  
PADDLE  
[54] BATON DE HOCKEY POUR  
GARDIEN DE BUT : COURBURE  
CONCAVE LE LONG DE L'AXE  
LONGITUDINAL DU BLOC DU  
MANCHE  
[72] MAYHEW, Kent, CA  
[71] MAYHEW, Kent, CA  
[22] 1998-01-23  
[43] 1999-07-23

---

[21] 2,221,070  
[13] A1  
[51] Int.Cl. 6E04D 13/076  
[25] EN  
[54] THE SOLAR HEAT TROUGHS  
[54] ABREUVOIR CHAUFFE A  
L'ENERGIE SOLAIRE  
[72] SHEWCHUK, Sophie, CA  
[72] ANGUS, Gerry, CA  
[71] SHEWCHUK, Sophie, CA  
[71] ANGUS, Gerry, CA  
[22] 1998-01-23  
[43] 1999-07-23

---

[21] 2,221,327  
[13] A1  
[51] Int.Cl. 6A47C 23/02  
[25] EN  
[54] REMOVABLE SEAT CUSHION  
SYSTEM  
[54] SYSTEME DE COUSSINS DE  
SIDGES AMOVIBLES  
[72] ZAMMIT, John, GB  
[71] Caneth Furniture Designs Ltd., GB  
[22] 1998-01-21  
[43] 1999-07-21

---

[21] 2,221,584  
[13] A1  
[51] Int.Cl. 6B25B 11/00 6A61C 19/00  
6B25H 1/00 6B21J 19/00 6B23Q 3/02  
6A61G 15/14  
[25] EN  
[54] FOCUS WORK SUPPORT  
[54] SUPPORT DE TRAVAIL  
FOCALISER  
[72] HABISREITINGER, Walter, CA  
[71] HABISREITINGER, Walter, CA  
[22] 1998-01-22  
[43] 1999-07-22

**Demandes canadiennes mises à la disponibilité du public**  
**18 juillet 1999 - 24 juillet 1999**

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[21] **2,221,593**  
[13] A1

[51] **Int.Cl. 6B62D 35/00**  
[25] EN  
[54] **APPARATUS FOR REDUCING DRAG**  
[54] **APPAREIL DE REDUCTION DE TRAINEE**  
[72] BASARABA, Timothy M., CA  
[71] BASARABA, Timothy M., CA  
[22] 1998-01-22  
[43] 1999-07-22

---

[21] **2,221,596**  
[13] A1

[51] **Int.Cl. 6A63B 59/14**  
[25] EN  
[54] **STICK SAVER**  
[54] **PROTEGE-BATON**  
[72] AMMATURO, Luigia, CA  
[71] AMMATURO, Luigia, CA  
[22] 1998-01-23  
[43] 1999-07-23

---

[21] **2,222,862**  
[13] A1

[51] **Int.Cl. 6E03D 5/094**  
[25] EN  
[54] **INTER FLUSH-TOILET**  
[54] **TOILETTE A COMMANDE DE CHASSE D'EAU**  
[72] CHONG, Kam Hui, CA  
[72] LIU, Shu Min, CA  
[71] CHONG, Kam Hui, CA  
[71] LIU, Shu Min, CA  
[22] 1998-01-20  
[43] 1999-07-20

---

[21] **2,222,920**  
[13] A1

[51] **Int.Cl. 6A47K 17/02**  
[25] FR  
[54] **ACCOUDOIR RETRACTABLE**  
[54] **RETRACTABLE ARMREST**  
[72] MALOUIN, Carl, CA  
[72] MALOUIN, Jean-Berchmans, CA  
[72] TREMBLAY, Nancy, CA  
[71] MALOUIN, Carl, CA  
[71] MALOUIN, Jean-Berchmans, CA  
[71] TREMBLAY, Nancy, CA  
[22] 1998-01-20  
[43] 1999-07-20

---

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[21] **2,222,924**  
[13] A1

[51] **Int.Cl. 6A63B 59/00 6A63B 59/14 6A63B 59/18**  
[25] FR  
[54] **BATON DE RINGUETTE(OU EQUIVALENT) - SECTION DE CONTROLE**  
[54] **RINGETTE STICK (OR EQUIVALENT) - CONTROL SECTION**  
[72] CHEVALIER, Normand, CA  
[71] CHEVALIER, Normand, CA  
[22] 1998-01-20  
[43] 1999-07-20

---

[21] **2,222,932**  
[13] A1

[51] **Int.Cl. 6A47K 17/02**  
[25] FR  
[54] **POIGNEE D'APPUI POUR REBORD ET INTERIEUR DE BAIN**  
[54] **SUPPORT HANDLE FOR EDGE AND INSIDE OF BATHTUB**  
[72] MALOUIN, Jean-Berchmans, CA  
[72] TREMBLAY, Nancy, CA  
[72] MALOUIN, Carl, CA  
[71] MALOUIN, Jean-Berchmans, CA  
[71] TREMBLAY, Nancy, CA  
[71] MALOUIN, Carl, CA  
[22] 1998-01-20  
[43] 1999-07-20

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[21] **2,222,937**  
[13] A1

[51] **Int.Cl. 6G05B 24/02**  
[25] FR  
[54] **VIBRE-GLACE**  
[54] **ICE VIBRATOR**  
[72] BOUCHARD, Mario, CA  
[71] BOUCHARD, Mario, CA  
[22] 1998-01-21  
[43] 1999-07-21

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[21] **2,223,920**  
[13] A1

[51] **Int.Cl. 6C10M 139/00 6C10M 107/02**  
[25] EN  
[54] **LUBRICATING OIL COMPOSITION FOR INTERNAL COMPOSITION ENGINES**  
[54] **COMPOSITION D'UNE HUILE DE LUBRIFICATION POUR MOTEURS A COMBUSTION INTERNE**  
[72] KANBARA, Makoto, JP  
[72] KOGANEI, Katsuya, JP  
[71] TONEN CORPORATION, JP  
[22] 1998-01-20  
[43] 1999-07-20

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[21] **2,224,090**  
[13] A1

[51] **Int.Cl. 6C22B 3/42 6C22B 34/14 6B01D 59/30**  
[25] EN  
[54] **ZIRCONIUM AND HAFNIUM SEPARATION IN SULFATE SOLUTIONS USING CONTINUOUS ION EXCHANGE CHROMATOGRAPHY**  
[54] **SEPARATION DU ZIRCONIUM ET DU HAFNIUM DANS DES SOLUTIONS DE SULFATE UTILISANT LA CHOMATOGRAPHIE A ECHANGEUSE D'ANIONS CONTINU**  
[72] SNYDER, Thomas Stephen, US  
[72] BELESKI, Richard, US  
[72] BYERS, Charles, US  
[72] SISSON, Warren, US  
[72] FRANCIS, Timothy Lloyd, US  
[72] NAYAK, Umesh, US  
[71] Westinghouse Electric Corporation, US  
[22] 1998-01-19  
[43] 1999-07-19

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[21] **2,224,116**  
[13] A1

[51] **Int.Cl. 6C22B 3/42**  
[25] EN  
[54] **ZIRCONIUM AND HAFNIUM SEPARATION IN CHLORIDE SOLUTIONS USING CONTINUOUS ION EXCHANGE CHROMATOGRAPHY**  
[54] **SEPARATION DU ZIRCONIUM ET DU HAFNIUM DANS DES SOLUTIONS DE CHLORURES UTILISANT LA CHROMATOGRAPHIE A ECHANGES D'ANIONS CONTINU**  
[72] FRANCIS, Timothy Lloyd, US  
[72] BELESKI, Richard J., US  
[72] SNYDER, Thomas Stephen, US  
[72] BYERS, Charles H., US  
[72] NAYAK, Umesh, US  
[72] SISSON, Warren G., US  
[71] Westinghouse Electric Corporation, US  
[22] 1998-01-19  
[43] 1999-07-19

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Canadian Laid-Open Applications  
July 18, 1999 - July 24, 1999

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[21] **2,224,762**  
[13] A1  
[51] **Int.Cl. 6B41F 1/16 6B41F 3/34**  
[25] EN  
[54] **VARIABLE CUTOFF PRESS UNIT  
POUR UNE PRESSE**  
[72] ERBSTEIN, Bob, US  
[71] IMPRIMERIES  
TRANSCONTINENTAL INC./  
TRANSCONTINENTAL PRINTING INC.,  
CA  
[22] 1998-01-23  
[43] 1999-07-23

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[21] **2,227,266**  
[13] A1  
[51] **Int.Cl. 6B63H 21/36 6B63H 20/32**  
[25] EN  
[54] **PROTECTION DEVICE FOR THE  
LOWER GEAR HOUSING OF A BOAT  
MOTOR**  
[54] **DISPOSITIF DE PROTECTION DE  
BOITES DE VITESSE INFERIEURS  
D'UN MOTEUR HORS-BORD**  
[72] COUSINS, Gerald M., CA  
[71] COUSINS, Gerald M., CA  
[22] 1998-01-19  
[43] 1999-07-19

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[21] **2,227,349**  
[13] A1  
[51] **Int.Cl. 6A61G 7/07 6A47G 9/02**  
[25] EN  
[54] **ADJUSTABLE THERAPEUTIC  
PILLOW**  
[54] **OREILLER THERAPEUTIQUE  
REGLABLE**  
[72] TARI, Antonio, CA  
[72] PRIOLO, Gino P., CA  
[71] TARI, Antonio, CA  
[71] PRIOLO, Gino P., CA  
[22] 1998-01-20  
[43] 1999-07-20

---

[21] **2,224,917**  
[13] A1  
[51] **Int.Cl. 6E21B 33/134**  
[25] EN  
[54] **IMPROVED BRIDGE PLUG FOR A  
WELL BORE**  
[54] **BOUCHON D'OBSTRUCTION  
AMELIOREE POUR UN Puits DE  
FORAGE**  
[72] JANI, William, CA  
[71] JANI, William, CA  
[22] 1998-01-23  
[43] 1999-07-23

---

[21] **2,227,269**  
[13] A1  
[51] **Int.Cl. 6B08B 7/00 6H01F 41/00**  
[25] EN  
[54] **METHOD OF  
DECONTAMINATING PCB  
TRANSFORMERS**  
[54] **METHODE DE  
DECONTAMINATION DES  
TRANSFORMATEURS AUX PCB**  
[72] ROBERTSON, William, CA  
[71] ROBERTSON, William, CA  
[22] 1998-01-20  
[43] 1999-07-20

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[21] **2,227,355**  
[13] A1  
[51] **Int.Cl. 6F25D 25/02**  
[25] EN  
[54] **BASKET MOUNTING  
ARRANGEMENT FOR A  
REFRIGERATOR**  
[54] **MONTAGE D'UN PANIER POUR  
REFRIGERATEUR**  
[72] ATALLA, Samir, CA  
[72] SIMMONS, Edward George, CA  
[71] ATALLA, Samir, CA  
[71] SIMMONS, Edward George, CA  
[22] 1998-01-19  
[43] 1999-07-19

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[21] **2,224,981**  
[13] A1  
[51] **Int.Cl. 6B60J 1/14**  
[25] EN  
[54] **FLUSH-MOUNTED FRAMELESS  
VEHICLE WINDOW**  
[54] **FENETRE POUR VEHICULE SANS  
CADRE**  
[72] BEAUREGARD, Réjean, CA  
[72] CARRIER, Serge, CA  
[72] BLACKBURN, Raymond, CA  
[71] PREVOST CAR INC., CA  
[22] 1998-01-23  
[43] 1999-07-23

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[21] **2,227,337**  
[13] A1  
[51] **Int.Cl. 6A61K 38/13 6A61K 31/70**  
[25] EN  
[54] **USE OF FRUCTOSE  
DIPHOSPHATE TO REDUCE  
CYCLOSPORINE DOSAGES AFTER  
ORGAN TRANSPLANTATION**  
[54] **UTILISATION DE DISPHOSPHATE  
DE FRUCTOSE AFIN DE REDUIRE LES  
DOSAGES DE CYCLOSPORINE APRES  
UNE TRANSPLANTATION  
D'ORGANES**  
[72] MARKOV, Angel K., US  
[71] MARKOV, Angel K., US  
[22] 1998-01-19  
[43] 1999-07-19

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[21] **2,227,361**  
[13] A1  
[51] **Int.Cl. 6G06T 15/70**  
[25] EN  
[54] **METHOD AND APPARATUS FOR  
PROVIDING REAL-TIME ANIMATION  
UTILIZING A DATABASE OF  
EXPRESSIONS**  
[54] **METHODE ET APPAREIL POUR  
FOURNIR DE L'ANIMATION EN  
TEMPS REEL EN UTILISANT UNE  
BASE DE DONNES D'EXPRESSIONS**  
[72] LACHAPPELLE, Pierre, CA  
[71] TAARNA STUDIOS INC., CA  
[22] 1998-01-19  
[43] 1999-07-19

---

[21] **2,227,253**  
[13] A1  
[51] **Int.Cl. 6B60R 19/42 6B60R 25/00**  
[25] EN  
[54] **REMOVABLE SIDE BUMPER FOR  
MOTOR VEHICLES WITH THEFT  
DETERRENT**  
[54] **PARE-CHOCS AMOVIBLE POUR  
VEHICULES A MOTEUR AVEC  
SYSTEME ANTI-VOL**  
[72] HOOPER, Gary, CA  
[71] HOOPER, Gary, CA  
[22] 1998-01-19  
[43] 1999-07-19

**Demandes canadiennes mises à la disponibilité du public**  
**18 juillet 1999 - 24 juillet 1999**

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[21] **2,227,368**  
[13] A1

[51] **Int.Cl. 6F24H 9/20**  
[25] EN  
[54] **EXPANSION BLADDER FOR HOT WATER TANK**  
[54] **POCHE EXTENSIBLE POUR CHAUFFE-EAU**  
[72] PICHETTE, Jean, CA  
[71] PICHETTE, Jean, CA  
[22] 1998-01-19  
[43] 1999-07-19

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[21] **2,227,395**  
[13] A1

[51] **Int.Cl. 6G01K 7/06 6F23N 5/10**  
[25] EN  
[54] **IMPROVEMENTS IN THERMOCOUPLE ASSEMBLIES**  
[54] **AMELIORATIONS DANS UN ASSEMBLAGE DE THERMOCOUPLE**  
[72] FINNEY, Philip F., US  
[71] FINNEY, Philip F., US  
[22] 1998-01-19  
[43] 1999-07-19

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[21] **2,227,566**  
[13] A1

[51] **Int.Cl. 6B07B 1/28**  
[25] EN  
[54] **INFEEED CHUTE**  
[54] **GOULOTTE D'ALIMENTATION**  
[72] BOTA, Sorin M., US  
[72] ZRELOFF, Peter J., US  
[72] JONES, Wayne, US  
[71] BMH WOOD TECHNOLOGY, INC., US  
[22] 1998-01-20  
[43] 1999-07-20

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[21] **2,227,382**  
[13] A1

[51] **Int.Cl. 6G01N 31/22 6G01N 21/01 6G01N 33/22 6G01N 21/78**  
[25] EN  
[54] **APPARATUS FOR FLUID ANALYSIS**  
[54] **APPAREIL D'ANALYSE DE FLUIDES**  
[72] PAQUETTE, Gilbert P., CA  
[72] CLARK, Douglas A., CA  
[72] CALON, Reginald S., CA  
[71] GULF CANADA RESOURCES LTD., CA  
[22] 1998-01-20  
[43] 1999-07-20

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[21] **2,227,399**  
[13] A1

[51] **Int.Cl. 6E21B 33/06**  
[25] EN  
[54] **WELLHEAD EQUIPMENT THAT USE POLYMER SEALING ELEMENTS TO SEAL OFF WELL PRESSURE**  
[54] **EQUIPEMENT DE TETE DE Puits COMPORTANT DES ELEMENTS D'ETANCHEITE EN POLYMERE, POUR CONTENIR LA PRESSION EN TETE DE Puits**  
[72] WIEDEMANN, Jim Lee, CA  
[71] 740914 Alberta Ltd., CA  
[22] 1998-01-20  
[43] 1999-07-20

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[21] **2,227,571**  
[13] A1

[51] **Int.Cl. 6B28D 1/14**  
[25] EN  
[54] **TOOL FOR ALIGNING A PORTABLE BORING BAR FOR REBORING OF A BORE AT A LOCATION RELATIVE TO A FURTHER BORE**  
[54] **OUTIL D'ALIGNEMENT D'UNE BARRE D'ALEPAGE PORTATIVE PERMETTANT UN REALESAGE A UN EMPLACEMENT RELATIF A UN AUTRE TROU ALESE**  
[72] HAYNES, George C., US  
[71] HAYNES, George C., US  
[22] 1998-01-20  
[43] 1999-07-20

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[21] **2,227,392**  
[13] A1

[51] **Int.Cl. 6H04L 12/54**  
[25] EN  
[54] **DEVICE AND SYSTEM TO FACILITATE ACCESSING ELECTRONIC MAIL FROM REMOTE USER-INTERFACE DEVICES**  
[54] **SYSTEME ET DISPOSITIF FACILITANT L'ACCES AU COURRIER ELECTRONIQUE A PARTIR D'UN DISPOSITIF INTERFACE/USAGER ELOIGNE**  
[72] SCHUETZE, Robert Charles, CA  
[71] AURORA COMMUNICATIONS EXCHANGE LTD., CA  
[22] 1998-01-19  
[43] 1999-07-19

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[21] **2,227,454**  
[13] A1

[51] **Int.Cl. 6A01C 5/02**  
[25] EN  
[54] **COMBINED FURROWING AND TAMPING TOOL**  
[54] **OUTIL COMBINE D'OUVERTURE DE SILLONS ET DE BOURRAGE**  
[72] FLEMING, Damon S., US  
[71] FLEMING, Damon S., US  
[22] 1998-01-20  
[43] 1999-07-20

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[21] **2,227,635**  
[13] A1

[51] **Int.Cl. 6H02G 3/08 6H02G 3/18**  
[25] EN  
[54] **DUAL PURPOSE ELECTRICAL BOX**  
[54] **BOITE ELECTRIQUE A DOUBLE USAGE**  
[72] DAVIS, Jeffrey E., US  
[72] HERTH, Greg B., US  
[71] DAVIS, Jeffrey E., US  
[71] HERTH, Greg B., US  
[22] 1998-01-21  
[43] 1999-07-21

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[21] **2,227,523**  
[13] A1

[51] **Int.Cl. 6H02B 15/00 6H05B 1/02 6F24D 19/10**  
[25] EN  
[54] **DOMESTIC ELECTRIC ENERGY CONTROL**  
[54] **SYSTEME DE CONTROLE DE L'ENERGIE ELECTRIQUE RESIDENTIELLE**  
[72] LANGFORD, Newton, AU  
[71] AQUABEAT PTY LTD., AU  
[22] 1998-01-20  
[43] 1999-07-20

---

Canadian Laid-Open Applications  
July 18, 1999 - July 24, 1999

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[21] **2,227,645**  
[13] A1  
[51] **Int.Cl. 6A41D 19/00 6A61B 19/04 6B29C 41/32**  
[25] EN  
[54] **MULTI-LAYERED THIN-WALLED POWDER-FREE ARTICLES MANUFACTURED FROM STYRENE BLOCK COPOLYMERS**  
[54] **ARTICLES MULTICOUCHES, A PAROIS MINCES, EXEMPTS DE Poudre, FABRIQUES A PARTIR DE COPOLYMERES SEQUENCES DE STYRENE**  
[72] HACKER, David M, CA  
[72] GAETZ, Lisa, CA  
[72] SHARMA, Pam, CA  
[72] LEIDNER, Jacob, CA  
[71] ECI MEDICAL TECHNOLOGIES INC., CA  
[22] 1998-01-21  
[43] 1999-07-21

---

[21] **2,227,647**  
[13] A1  
[51] **Int.Cl. 6A47C 3/026**  
[25] EN  
[54] **TILT MECHANISM FOR CHAIRS**  
[54] **MECANISME D'INCLINAISON POUR SIEGES**  
[72] OKANO, Hiroshi, CA  
[71] OKANO, Hiroshi, CA  
[22] 1998-01-21  
[43] 1999-07-21

---

[21] **2,227,653**  
[13] A1  
[51] **Int.Cl. 6A63D 15/00 6A47B 3/00**  
[25] EN  
[54] **GAME TABLE TILT AND ROLL SUPPORT**  
[54] **SUPPORT D'INCLINAISON ET DE ROULEMENT POUR TABLE DE JEU**  
[72] GROVER, Douglas B., US  
[71] GROVER, Douglas B., US  
[22] 1998-01-21  
[43] 1999-07-21

---

---

[21] **2,227,659**  
[13] A1  
[51] **Int.Cl. 6H02G 3/08 6G05B 15/02**  
[25] EN  
[54] **ENCLOSURE FOR INTERFACING ELECTRICAL AND CONTROL OR COMMUNICATION DEVICES**  
[54] **BOITIER D'INTERFACAGE DE DISPOSITIFS ELECTRIQUES AVEC DES DISPOSITIFS DE COMMANDE OU DE COMMUNICATION**  
[72] O'DONNELL, Patrick, CA  
[71] O'DONNELL, Patrick, CA  
[22] 1998-01-21  
[43] 1999-07-21

---

[21] **2,227,666**  
[13] A1  
[51] **Int.Cl. 6A01M 21/00**  
[25] EN  
[54] **NOXIOUS WEED CONTROL BY SOIL SOLARIZATION**  
[54] **LUTTE CONTRE LES MAUVAISES HERBES NUISIBLES PAR SOLARISATION DU SOL**  
[72] FORNARI, Frank, US  
[72] SINCLAIR, Thomas R., US  
[72] CHASE, Carlene A., US  
[72] CHELLEMI, Daniel O., US  
[71] FORNARI, Frank, US  
[71] SINCLAIR, Thomas R., US  
[71] CHASE, Carlene A., US  
[71] CHELLEMI, Daniel O., US  
[22] 1998-01-21  
[43] 1999-07-21

---

[21] **2,227,667**  
[13] A1  
[51] **Int.Cl. 6C10G 1/00 6B01F 3/12**  
[25] EN  
[54] **AGITATED SLURRY PUMP BOX FOR OIL SAND HYDROTRANSPORT**  
[54] **CAISSE DE POMPE A BOUE AGITEE POUR L'HYDROTRANSPORT DE SABLE PETROLIFERE**  
[72] CYMERMAN, George, CA  
[72] MACIEJEWSKI, Waldemar, CA  
[72] McTURK, Jim, CA  
[72] KERSHAW, Derrick, CA  
[71] CYMERMAN, George, CA  
[71] MACIEJEWSKI, Waldemar, CA  
[71] McTURK, Jim, CA  
[71] KERSHAW, Derrick, CA  
[22] 1998-01-22  
[43] 1999-07-22

---

---

[21] **2,227,668**  
[13] A1  
[51] **Int.Cl. 6B65H 21/00**  
[25] EN  
[54] **AUTOMATED TAPE SPLICING SYSTEM**  
[54] **SYSTEME AUTOMATISE DE COLLAGE DE BANDE**  
[72] CAIRNS, John, CA  
[71] Intertape Polymer Group, CA  
[22] 1998-01-21  
[43] 1999-07-21

---

[21] **2,227,674**  
[13] A1  
[51] **Int.Cl. 6C08F 6/02**  
[25] EN  
[54] **CATALYST DEACTIVATION**  
[54] **DESACTIVATION DE CATALYSEUR**  
[72] SANTRY, Linda Jean, CA  
[72] BROWN, Stephen John, CA  
[72] SIBTAIN, Fazle, CA  
[72] NICOLA, Antonio Pietro, CA  
[71] NOVA Chemicals Ltd., CA  
[22] 1998-01-21  
[43] 1999-07-21

---

[21] **2,227,676**  
[13] A1  
[51] **Int.Cl. 6F02D 41/30 6F02D 33/00**  
[25] EN  
[54] **METHOD FOR INTERNAL COMBUSTION ENGINE START-UP**  
[54] **METHODE DE DEMARRAGE DE MOTEUR A COMBUSTION INTERNE**  
[72] ROMZEK, Martin Anthony, US  
[71] DETROIT DIESEL CORPORATION, US  
[22] 1998-01-21  
[43] 1999-07-21

---

[21] **2,227,680**  
[13] A1  
[51] **Int.Cl. 6G06K 11/18 6G06F 3/033**  
[25] EN  
[54] **MULTI-FUNCTION MOUSE**  
[54] **SOURIS MULTI-FONCTIONNELLE**  
[72] BARDHAN, Bibhuti Bhusan, CA  
[71] BARDHAN, Bibhuti Bhusan, CA  
[22] 1998-01-22  
[43] 1999-07-22

---

**Demandes canadiennes mises à la disponibilité du public**  
**18 juillet 1999 - 24 juillet 1999**

---

[21] **2,227,683**  
[13] A1

[51] **Int.Cl. 6F22B 1/00**  
[25] EN  
[54] **A PLASMA ARC STEAM GENERATOR**  
[54] **GENERATEUR DE VAPEUR A ARC AU PLASMA**  
[72] BURKINSHAW, Orville Victor, CA  
[71] BURKINSHAW, Orville Victor, CA  
[22] 1998-01-22  
[43] 1999-07-22

---

[21] **2,227,702**  
[13] A1

[51] **Int.Cl. 6A01K 97/10 6A01K 97/01**  
[25] EN  
[54] **MULTIPURPOSE FISHING ROD HOLDER**  
[54] **SUPPORT DE CANNE A PECHE POLYVALENT**  
[72] BEATTIE, Barry, CA  
[71] BEATTIE, Barry, CA  
[22] 1998-01-21  
[43] 1999-07-21

---

[21] **2,227,706**  
[13] A1

[51] **Int.Cl. 6A61K 35/12 6A61K 31/19 6A61K 31/215**  
[25] EN  
[54] **PIG APPEASING PHEROMONES TO DECREASE STRESS, ANXIETY AND AGGRESSIVENESS**  
[54] **PHEROMONES D'APAISEMENT POUR DIMINUER LE STRESS, L'ANXIETE ET L'AGRESSIVITE DE PORCS**  
[72] PAGEAT, Patrick, FR  
[71] FIDELINE, FR  
[22] 1998-01-21  
[43] 1999-07-21

---

[21] **2,227,707**  
[13] A1

[51] **Int.Cl. 6F04B 49/22 6F04B 47/00**  
[25] EN  
[54] **CONTROL APPARATUS FOR A PUMP**  
[54] **DISPOSITIF DE COMMANDE POUR POMPE**  
[72] BORLE, Del, CA  
[71] BORLE, Del, CA  
[22] 1998-01-21  
[43] 1999-07-21

---

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[21] **2,227,710**  
[13] A1

[51] **Int.Cl. 6G05D 25/02 6H05B 43/00 6H05B 41/36**  
[25] EN  
[54] **DISTANCE-BASED CONTROL OF LIGHTING PARAMETERS**  
[54] **CONTROLE BASEE A DISTANCE POUR PARAMETRES DES LUMIERES**  
[72] BAUER, Will N., CA  
[71] BAUER, Will N., CA  
[22] 1998-01-21  
[43] 1999-07-21

---

[21] **2,227,717**  
[13] A1

[51] **Int.Cl. 6B62D 55/20**  
[25] EN  
[54] **A REVERSIBLE TRACK LINK FOR AN ENDLESS TRACK**  
[54] **PATIN DE CHENILLE REVERSIBLE**  
[72] UMBARGER, Daryl, US  
[71] UMBARGER, Daryl, US  
[22] 1998-01-22  
[43] 1999-07-22

---

[21] **2,227,739**  
[13] A1

[51] **Int.Cl. 6A47J 37/08**  
[25] EN  
[54] **TOASTER**  
[54] **GRILLE-PAIN**  
[72] MICHALUK, Gerald A., CA  
[71] MICHALUK, Gerald A., CA  
[22] 1998-01-23  
[43] 1999-07-23

---

[21] **2,227,747**  
[13] A1

[51] **Int.Cl. 6H02M 11/00**  
[25] EN  
[54] **BUCK REGULATOR WITH PLURAL OUTPUTS**  
[54] **REGULATEUR DEVOLTEUR A SORTIES MULTIPLES**  
[72] EDWARDS, Gary Arthur, CA  
[72] ORR, Raymond Kenneth, CA  
[71] EDWARDS, Gary Arthur, CA  
[71] ORR, Raymond Kenneth, CA  
[22] 1998-01-23  
[43] 1999-07-23

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[21] **2,227,805**  
[13] A1

[51] **Int.Cl. 6F16L 15/04**  
[25] EN  
[54] **METHOD AND APPARATUS FOR JOINING HELICALLY WOUND PIPES**  
[54] **METHODE ET APPAREIL D'ASSEMBLAGE DE TUYAUX BOBINES EN HELICE**  
[72] PELKINEN, Roy Lauri Uolevi, CA  
[72] ROSS, Paul Turner, CA  
[72] DOOLAN, Gordon Thomas, CA  
[71] Pacific Poly-Pipe Products Ltd., CA  
[22] 1998-01-23  
[43] 1999-07-23

---

[21] **2,227,806**  
[13] A1

[51] **Int.Cl. 6H01J 49/06 6H01J 49/04**  
[25] EN  
[54] **SPECTROMETER PROVIDED WITH PULSED ION SOURCE AND TRANSMISSION DEVICE TO DAMP ION MOTION AND METHOD OF USE**  
[54] **SPECTROMETRE MUNI D'UNE SOURCE D'IONS PULSEE ET DISPOSITIF DE TRANSMISSION POUR AMORTIR LA VITESSE DES IONS, ET METHODE D'UTILISATION**  
[72] ENS, Erich W., CA  
[72] KRUTCHINSKY, Andrew N., CA  
[72] LOBODA, Alexandre V., CA  
[72] STANDING, Kenneth G., CA  
[72] SPICER, Victor L., CA  
[71] University of Manitoba, CA  
[22] 1998-01-23  
[43] 1999-07-23

---

[21] **2,227,809**  
[13] A1

[51] **Int.Cl. 6B65D 47/22 6A45F 3/20**  
[25] EN  
[54] **BITE VALVE FOR HYDRATION BLADDER**  
[54] **COMMANCE BUCCALE POUR VESSIE D'HYDRATATION**  
[72] HOSKINS, Matthew W., US  
[72] BOILEAU, Michel A., US  
[71] K-2 CORPORATION, US  
[22] 1998-01-23  
[43] 1999-07-21  
[30] US (09/010,388) 1998-01-21

---

Canadian Laid-Open Applications  
July 18, 1999 - July 24, 1999

---

[21] **2,227,827**  
[13] A1  
[51] **Int.Cl. 6C12N 5/10 6C12Q 1/02**  
**6C12N 5/06 6C12N 5/08 6A61K 35/44**  
[25] EN  
[54] **IN VITRO ARTIFICIAL CORNEA**  
**AND SCLERA**  
[54] **CORNEE ET SCLEROTIQUE**  
**ARTIFICIELLES IN VITRO**  
[72] unknown, ZZ  
[71] University of Ottawa, CA  
[22] 1998-01-23  
[43] 1999-07-23

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[21] **2,227,831**  
[13] A1  
[51] **Int.Cl. 6A63C 1/00**  
[25] EN  
[54] **SKATE BLADE HOLDER**  
[54] **PORTE-LAME DE PATIN**  
[72] BOYER, Geoffrey, CA  
[71] BOYER, Geoffrey, CA  
[22] 1998-01-23  
[43] 1999-07-23

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[21] **2,227,846**  
[13] A1  
[51] **Int.Cl. 6B25B 27/14**  
[25] EN  
[54] **HINGE PIN EXTRACTOR**  
[54] **EXTRACTEUR D'AXE DE**  
**CHARNIERE**  
[72] CLAYSON, Stephen, CA  
[71] CLAYSON, Stephen, CA  
[71] CLAYSON, Diana, CA  
[22] 1998-01-23  
[43] 1999-07-23

---

[21] **2,227,854**  
[13] A1  
[51] **Int.Cl. 6H02G 7/20**  
[25] EN  
[54] **APPARATUS FOR LATERALLY**  
**OFFSETTING POWER LINES FROM**  
**UTILITY POLES**  
[54] **APPAREILS POUR LE DECALAGE**  
**LATERAL DE LIGNES ELECTRIQUES**  
**D'UN POTEAU**  
[72] BLANDING, Douglas, US  
[71] BLANDING, Douglas, US  
[22] 1998-01-22  
[43] 1999-07-22

---

[21] **2,227,861**  
[13] A1  
[51] **Int.Cl. 6D21H 23/04 6D21H 21/14**  
**6D21H 17/68**  
[25] EN  
[54] **A METHOD FOR ENHANCING**  
**THE ANTI-SKID OR FRICTION**  
**PROPERTIES OF A CELLULOSIC**  
**FIBER**  
[54] **METHODE POUR ACCROITRE**  
**LES PROPRIETES ANTIDERAPANTES**  
**OU DE FRICTION D'UNE FIBRE**  
**CELLULOSIQUE**  
[72] TILLIRSON, Eric, US  
[71] Vinings Industries, Inc., US  
[22] 1998-01-22  
[43] 1999-07-21  
[30] US (09/010,427) 1998-01-21

---

[21] **2,227,863**  
[13] A1  
[51] **Int.Cl. 6E01H 5/06**  
[25] EN  
[54] **SNOW BLADE ATTACHMENT**  
[54] **ACCESSOIRES POUR ETRAVES**  
**DE CHASSE-NEIGE**  
[72] DUGAS, Gerard G., CA  
[71] DUGAS, Gerard G., CA  
[22] 1998-01-22  
[43] 1999-07-22

---

[21] **2,228,023**  
[13] A1  
[51] **Int.Cl. 6B07C 5/342 6G01N 33/46**  
**6G01N 21/55**  
[25] EN  
[54] **METHOD AND APPARATUS FOR**  
**CLASSIFYING BATCHES OF WOOD**  
**CHIPS OR THE LIKE**  
[54] **METHODE ET APPAREIL POUR**  
**LE CLASSEMENT DE LOTS DE**  
**COPEAUX DE BOIS OU ARTICLES**  
**CONNEXES .**  
[72] LABBÉ, Jacques, CA  
[72] BÉDARD, Pierre, CA  
[72] BINETTE, Sylvain, CA  
[72] COUTURIER, Jean-Pierre, CA  
[71] Centre de Recherche Industrielle du  
Québec, CA  
[22] 1998-01-23  
[43] 1999-07-23

---

[21] **2,228,027**  
[13] A1  
[51] **Int.Cl. 6B65H 75/14 6B65H 75/22**  
[25] EN  
[54] **MOLDED PRODUCT OF**  
**RECYCLED PLASTIC AND RUBBER**  
**AND APPARATUS AND PROCESS FOR**  
**MANUFACTURING SAME**  
[54] **PRODUIT MOULE DE PLASTIQUE**  
**ET DE CAOUTCHOUC RECYCLES**  
**AINSI QU'APPAREIL ET PROCESSUS**  
**DE FABRICATION CONNEXES**  
[72] KENNEY, Terry, CA  
[72] CRAWFORD, Paul, CA  
[71] KENNEY, Terry, CA  
[22] 1998-01-23  
[43] 1999-07-23

---

[21] **2,230,659**  
[13] A1  
[51] **Int.Cl. 6G06T 13/00 6G06F 17/40**  
**6G06T 15/70**  
[25] EN  
[54] **METHOD AND APPARATUS FOR**  
**PROVIDING REAL-TIME ANIMATION**  
**UTILIZING A DATABASE OF**  
**POSTURES**  
[54] **METHODE ET APPAREIL POUR**  
**FOURNIR DE L'ANIMATION EN**  
**TEMPS REEL UTILISANT UNE BASE**  
**DE DONNEES DE POSTURES**  
[72] LACHAPELLE, Pierre, CA  
[71] TAARNA STUDIOS INC., CA  
[22] 1998-02-27  
[43] 1999-07-19  
[30] CA (2,227,361) 1998-01-19

---

[21] **2,233,400**  
[13] A1  
[51] **Int.Cl. 6B61K 3/02**  
[25] EN  
[54] **RAIL LUBRICATOR**  
[54] **GRAISSEUR DE RAIL**  
[72] URMSON, William T., Jr., US  
[72] CRAIG, Jeffrey P., US  
[72] LOUNSBERRY, Peter C., US  
[71] PORTEC RAIL PRODUCTS, INC., US  
[22] 1998-03-27  
[43] 1999-07-21  
[30] US (09/010,218) 1998-01-21

**Demandes canadiennes mises à la disponibilité du public**  
**18 juillet 1999 - 24 juillet 1999**

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[21] **2,234,352**  
[13] A1

[51] **Int.Cl. 6B26F 1/38 6H02G 3/12**  
[25] EN  
[54] **RECTANGULAR OPENING BOX CUTTING APPARATUS**  
[54] **APPAREIL SERVANT A DECOUPER DES OUVERTURES RECTANGULAIRES POUR BOITIERES ELECTRIQUES**  
[72] YOUNG, Ralph C., US  
[71] YOUNG, Ralph C., US  
[22] 1998-04-08  
[43] 1999-07-23  
[30] US (09/012406) 1998-01-23

---

[21] **2,235,658**  
[13] A1

[51] **Int.Cl. 6H05B 41/14 6H05B 41/24 6H05B 41/26**  
[25] EN  
[54] **ELECTRONIC BALLAST CIRCUIT**  
[54] **CIRCUIT DE BALLAST ELECTRONIQUE**  
[72] FOO, Onn Fah, CN  
[71] MASS TECHNOLOGY (H.K.) LTD., CN  
[22] 1998-04-23  
[43] 1999-07-19  
[30] CN (98104011.X) 1998-01-19

---

[21] **2,236,443**  
[13] A1

[51] **Int.Cl. 6E04G 9/08 6E04G 15/06**  
[25] EN  
[54] **APPARATUS AND METHOD FOR FORMING VOIDS UNDER CONCRETE FLOORS AND THE LIKE**  
[54] **APPAREIL ET METHODE DE FORMATION DE VIDES SOUS DES PLANCHERS ET AUTRES SURFACES DE BETON**  
[72] DUFAULT, Louis C., CA  
[72] ISLES, Timothy J., CA  
[72] ROSENBLAT, Michael S., CA  
[71] VOID FORM INTERNATIONAL LTD., CA  
[22] 1998-04-30  
[43] 1999-07-20  
[30] US (60/071,974) 1998-01-20

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[21] **2,236,449**  
[13] A1

[51] **Int.Cl. 6E04G 9/08 6E04G 15/06**  
[25] EN  
[54] **APPARATUS AND METHOD FOR SUPPORTING CONCRETE BEAMS, WALLS AND THE LIKE**  
[54] **APPAREIL ET METHODE DE SOUTIEN DE POUTRES, DE MURS ET D'AUTRES ELEMENTS DE BETON**  
[72] ROSENBLAT, Michael S., CA  
[72] ISLES, Timothy J., CA  
[72] DUFAULT, Louis C., CA  
[71] VOID FORM INTERNATIONAL LTD., CA  
[22] 1998-04-30  
[43] 1999-07-20  
[30] US (60/072,000) 1998-01-20

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[21] **2,239,975**  
[13] A1

[51] **Int.Cl. 6E02F 9/28 6E02F 3/815**  
[25] EN  
[54] **SCRAPER BLADE FOR TOOTHED BUCKETS OF EARTH WORKING MACHINES**  
[54] **LAMES RACLEUSES POUR GODETS A DENTS D'ENGINS DE TERRASSEMENT**  
[72] HALL, William I., US  
[71] HALL, William I., US  
[22] 1998-06-10  
[43] 1999-07-22  
[30] US (09/010,932) 1998-01-22

---

[21] **2,240,051**  
[13] A1

[51] **Int.Cl. 6H04R 25/00**  
[25] EN  
[54] **HEARING AID WITH COMPENSATION OF ACOUSTIC AND/OR MECHANICAL FEEDBACK**  
[54] **PROTHESE AUDITIVE AVEC COMPENSATION DE RETROACTION ACOUSTIQUE ET/OU MECANIQUE**  
[72] DELFS, Hans, DE  
[72] LEYSIEFFER, Hans, DE  
[71] IMPLEX GMBH SPEZIALHORGERÄTE, DE  
[22] 1998-06-08  
[43] 1999-07-23  
[30] DE (198 02 568.8) 1998-01-23

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[21] **2,241,442**  
[13] A1

[51] **Int.Cl. 6B08B 3/08 6H01F 27/12**  
[25] EN  
[54] **METHOD OF DECONTAMINATING PCB TRANSFORMERS**  
[54] **METHODE DE DECONTAMINATION DES TRANSFORMATEURS AUX PCB**  
[72] ROBERTSON, William, CA  
[71] ROBERTSON, William, CA  
[22] 1998-06-22  
[43] 1999-07-20  
[30] CA (2,227,269) 1998-01-20

---

[21] **2,241,459**  
[13] A1

[51] **Int.Cl. 6G06F 1/16**  
[25] EN  
[54] **CORE COMPUTER UNIT**  
[54] **BLOC ORDINATEUR**  
[72] MOYNAHAN, John F., US  
[72] JENKINS, Michael D., US  
[71] XYBERNAUT CORPORATION, US  
[22] 1998-06-22  
[43] 1999-07-20  
[30] US (09/009,206) 1998-01-20

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[21] **2,244,070**  
[13] A1

[51] **Int.Cl. 6H04B 10/10 6H04B 10/105**  
[25] EN  
[54] **DEVICE FOR OPTICAL FREE SPACE TRANSMISSION SYSTEMS**  
[54] **DISPOSITIF POUR SYSTEMES DE TRANSMISSION OPTIQUE EN ESPACE LIBRE**  
[72] FISCHER, Edgar, CH  
[72] CZICHY, Reinhard Hanno, CH  
[72] SANVIDO, Saverio, CH  
[71] OERLIKON CONTRAVES AG, CH  
[22] 1998-09-09  
[43] 1999-07-23  
[30] CH (1998 0160/98) 1998-01-23

---



Canadian Laid-Open Applications  
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[21] **2,244,571**  
[13] A1  
[51] **Int.Cl. 6H04B 1/44 6H04B 7/26 6H04Q 7/32**  
[25] EN  
[54] **COMMUNICATION TERMINAL**  
[54] **TERMINAL DE COMMUNICATION**  
[72] HAZAMA, Kaori, JP  
[71] MITSUBISHI DENKI KABUSHIKI KAISHA, JP  
[22] 1998-08-07  
[43] 1999-07-20  
[30] JP (10-009143) 1998-01-20

---

[21] **2,244,757**  
[13] A1  
[51] **Int.Cl. 6A01D 69/00 6A01D 57/00**  
[25] EN  
[54] **HYDRAULIC FEEDER REVERSER**  
[54] **INVERSEUR HYDRAULIQUE DE MECANISME D'ALIMENTATION**  
[72] OLIGMUELLER, Jeff E., US  
[71] CASE CORPORATION, US  
[22] 1998-08-12  
[43] 1999-07-22  
[30] US (09/012,133) 1998-01-22

---

[21] **2,244,761**  
[13] A1  
[51] **Int.Cl. 6A47L 5/36**  
[25] EN  
[54] **USER-CARRIED VACUUM CLEANER**  
[54] **ASPIRATEUR PORTE PAR L'UTILISATEUR**  
[72] BERFIELD, Robert C., US  
[71] SHOP VAC CORPORATION, US  
[22] 1998-08-11  
[43] 1999-07-22  
[30] US (09/010,742) 1998-01-22

---

[21] **2,246,185**  
[13] A1  
[51] **Int.Cl. 6A45C 3/00 6A45F 3/02 6A45F 3/04**  
[25] EN  
[54] **TRAVEL BAG**  
[54] **SAC DE VOYAGE**  
[72] MELK, Thomas J., US  
[72] GOLENZ, Douglas J., US  
[71] OUTER CIRCLE PRODUCTS, LTD., US  
[22] 1998-09-01  
[43] 1999-07-21  
[30] US (09/010,016) 1998-01-21

---

[21] **2,246,852**  
[13] A1  
[51] **Int.Cl. 6F21V 21/10 6E04H 12/18**  
[25] EN  
[54] **COVER FOR UTILITY POLE**  
[54] **COUVERCLE POUR POTEAU ELECTRIQUE**  
[72] BADGIO, James D., US  
[71] ANGEL GUARD PRODUCTS, INC., US  
[22] 1998-09-11  
[43] 1999-07-23  
[30] US (09/012,608) 1998-01-23

---

[21] **2,246,978**  
[13] A1  
[51] **Int.Cl. 6F16L 19/00 6F16L 11/14**  
[25] EN  
[54] **END-SLOTTED FLEXIBLE METAL HOSE**  
[54] **TUYAU METALLIQUE SOUPLE A FENTES D'EXTREMITE**  
[72] THOMAS, R. Winfield, US  
[71] TRU-FLEX METAL HOSE CORPORATION, US  
[22] 1998-09-15  
[43] 1999-07-20  
[30] US (09/099,552) 1998-01-20

---

[21] **2,246,979**  
[13] A1  
[51] **Int.Cl. 6F01N 7/08**  
[25] EN  
[54] **VEHICLE WITH IMPROVED EXHAUST SYSTEM FOR INTERNAL COMBUSTION ENGINE**  
[54] **VEHICULE A SYSTEME D'ECHAPPEMENT AMELIORE POUR MOTEUR A COMBUSTION INTERNE**  
[72] THOMAS, R. Winfield, US  
[71] TRU-FLEX METAL HOSE CORPORATION, US  
[22] 1998-09-15  
[43] 1999-07-20  
[30] US (09/099,551) 1998-01-20

---

[21] **2,249,089**  
[13] A1  
[51] **Int.Cl. 6A61B 17/02 6A61B 17/08**  
[25] EN  
[54] **SURGICAL RETRACTION APPARATUS**  
[54] **APPAREIL POUR ECARTEUR CHIRURGICAL**  
[72] HAMANN, David L., US  
[72] HUNT, John V., US  
[72] WASSON, Robert S., US  
[72] KOLATA, Ronald J., US  
[72] FOX, William D., US  
[71] ETHICON ENDO-SURGERY, INC., US  
[22] 1998-09-29  
[43] 1999-07-23  
[30] US (09/012,204) 1998-01-23

---

[21] **2,250,376**  
[13] A1  
[51] **Int.Cl. 6B09B 3/00 6A61L 11/00**  
[25] EN  
[54] **WASTE TREATMENT APPARATUS AND METHOD**  
[54] **APPAREIL ET METHODE DE TRAITEMENT DES DECHETS**  
[72] McKEE, Randall G., US  
[72] LEWIS, Robert W., US  
[71] STERILE TECHNOLOGY INDUSTRIES, LTD., US  
[22] 1998-10-15  
[43] 1999-07-22  
[30] US (09/010,917) 1998-01-22

---

[21] **2,251,392**  
[13] A1  
[51] **Int.Cl. 6A23L 3/36**  
[25] EN  
[54] **PLATED MEAL WITH INDIVIDUALLY FROZEN INGREDIENTS**  
[54] **REPAS AVEC DES INGREDIENTS CONGELES INDIVIDUELLEMENT DANS UN PLATEAU**  
[72] ASKMAN, Lars, SE  
[72] OLOFSSON, Mats, SE  
[71] SOCIÉTÉ DES PRODUITS NESTLÉ S.A., CH  
[22] 1998-11-06  
[43] 1999-07-19  
[30] GB (9801069.7) 1998-01-19

**Demandes canadiennes mises à la disponibilité du public**  
**18 juillet 1999 - 24 juillet 1999**

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[21] **2,251,413**  
[13] A1

[51] **Int.Cl. 6B66D 3/00 6B66D 1/28**  
[25] EN  
[54] **TREE-MOUNTABLE HOIST SUPPORT**  
[54] **SUPPORT DE PALAN POUVANT ETRE MONTE DANS UN ARBRE**  
[72] MARTIN, Richard E., US  
[72] TWILLIGEAR, Kurt D., US  
[71] MARTIN, Richard E., US  
[71] TWILLIGEAR, Kurt D., US  
[22] 1998-10-26  
[43] 1999-07-22  
[30] US (60/034,081) 1998-01-22

---

[21] **2,252,125**  
[13] A1

[51] **Int.Cl. 6B65G 15/62 6B65G 39/071 6B65G 39/09 6B65G 21/10 6B65G 23/44**  
[25] EN  
[54] **CONVEYOR CONSTRUCTION**  
[54] **CONSTRUCTION DE CONVOYEUR**  
[72] HALL, Scott M., US  
[72] HANSEN, Kenneth N., US  
[72] ERTEL, Daniel E., US  
[72] HOSCH, Michael A., US  
[71] DORNER MFG. CORP., US  
[22] 1998-11-25  
[43] 1999-07-19  
[30] US (09/008,720) 1998-01-19

---

[21] **2,252,272**  
[13] A1

[51] **Int.Cl. 6B61G 11/12 6B61G 9/08**  
[25] EN  
[54] **RAILCAR CUSHIONING DEVICE WITH INTERNAL SPRING**  
[54] **APPAREIL AMORTISSEUR A RESSORTS INTERNES POUR AUTOMOTRICE**  
[72] MONACO, Jay P., US  
[71] KEYSTONE INDUSTRIES, INC., US  
[22] 1998-10-30  
[43] 1999-07-20  
[30] US (009,098) 1998-01-20

---

---

[21] **2,252,340**  
[13] A1

[51] **Int.Cl. 6C08J 5/18 6B29C 47/00**  
[25] EN  
[54] **METHOD AND APPARATUS FOR FORMING A CELLULOSE ARTICLE INCLUDING SOLVENT RECOVERY MEANS**  
[54] **METHODE ET APPAREIL PERMETTANT DE FORMER UN ARTICLE EN CELLULOSE ET DE RECUPERER LE SOLVANT UTILISE**  
[72] DUCHARME, Paul Edmund Jr., US  
[72] PORTNOY, Norman Abbye, US  
[72] KAJIWARA, Edward Makoto, US  
[71] VISKASE CORPORATION, US  
[22] 1998-11-02  
[43] 1999-07-20  
[30] US (09/000,505) 1998-01-20

---

[21] **2,253,056**  
[13] A1

[51] **Int.Cl. 6C25B 1/02 6C04B 35/00 6C01B 13/02 6C25B 11/04**  
[25] EN  
[54] **MODULAR CERAMIC ELECTROCHEMICAL APPARATUS AND METHOD OF MANUFACTURE THEREFOR**  
[54] **APPAREIL ELECTROCHIMIQUE MODULAIRE EN CERAMIQUE ET METHODE DE FABRICATION**  
[72] SEHLIN, Scott Richard, US  
[72] HART, Russell Frank, US  
[72] CROME, Victor Paul, US  
[71] LITTON SYSTEMS, INC., US  
[22] 1998-11-04  
[43] 1999-07-22  
[30] US (010,828) 1998-01-22

---

[21] **2,254,050**  
[13] A1

[51] **Int.Cl. 6D04B 21/06 6D03C 3/00 6D03D 15/00 6D04B 15/84**  
[25] EN  
[54] **JACQUARD FABRIC AND METHOD OF MANUFACTURE**  
[54] **TISSU JACQUARD ET METHODE DE FABRICATION**  
[72] SPILLANE, Robert T., US  
[71] LIBERTY FABRICS, US  
[22] 1998-11-12  
[43] 1999-07-21  
[30] US (09/009,731) 1998-01-21

---

---

[21] **2,254,243**  
[13] A1

[51] **Int.Cl. 6B28D 1/04 6B28D 7/04 6B28D 1/32**  
[25] EN  
[54] **CUTTING APPARATUS**  
[54] **OUTIL DE COUPE**  
[72] HEPWORTH, Paul Steabben, GB  
[71] PLASPLUGS INC., US  
[22] 1998-11-18  
[43] 1999-07-23  
[30] GB (9801371.7) 1998-01-23

---

[21] **2,254,405**  
[13] A1

[51] **Int.Cl. 6A22C 17/00 6A22C 21/06 6A22C 17/14**  
[25] EN  
[54] **METHOD AND DEVICE FOR EVISCERATION OF CARCASSES**  
[54] **METHODE ET DISPOSITIF POUR L'EVISCERATION DE CARCASSES**  
[72] NIELSEN, Jens Ulrich, DK  
[72] DRUEKAER, Arne, DK  
[71] SLAGTERIERNES FORSKNINGSINSTITUT, DK  
[22] 1998-11-24  
[43] 1999-07-20  
[30] DK (0067/98) 1998-01-20  
[30] DK (470/98) 1998-04-03

---

[21] **2,254,569**  
[13] A1

[51] **Int.Cl. 6A47L 5/30 6A47L 9/04**  
[25] EN  
[54] **VACUUM CLEANER INCLUDING VENTILATION FAN FOR FORMING AIR CURRENT FLOWING ALONG THE AXIAL DIRECTION OF ROTARY BRUSH TO SUCTION MEMBER**  
[54] **ASPIRATEUR COMPRENANT UN VENTILATEUR PRODUISANT UN COURANT D'AIR DANS LE SENS AXIAL DE LA BROSE ROTATIVE A L'ELEMENT D'ASPIRATION**  
[72] OKA, Yasuhiro, JP  
[71] SHARP KABUSHIKI KAISHA, JP  
[22] 1998-11-20  
[43] 1999-07-21  
[30] JP (10-009485) 1998-01-21

---

Canadian Laid-Open Applications  
July 18, 1999 - July 24, 1999

---

[21] **2,254,771**  
[13] A1  
[51] **Int.Cl. 6B60B 35/00**  
[25] EN  
[54] **WHEEL SAFETY LOCK**  
[54] **BLOCAGE DE SECURITE POUR ROUE**  
[72] STEVENS, Robert, CA  
[71] STEVENS, Robert, CA  
[22] 1998-11-26  
[43] 1999-07-23  
[30] US (09/012,258) 1998-01-23

---

[21] **2,255,537**  
[13] A1  
[51] **Int.Cl. 6D06F 37/00 6F24C 15/00 6D06F 39/00 6F24C 7/08 6D06F 58/20 6D06F 58/28 6A47L 15/42**  
[25] EN  
[54] **APPLIANCE CONSOLE ATTACHMENT**  
[54] **FIXATION POUR CONSOLE D'APPAREIL ELECTROMENAGER**  
[72] MICHAEL, Daryl A., US  
[72] LICKISS, Chris P., US  
[71] MAYTAG CORPORATION, US  
[22] 1998-12-14  
[43] 1999-07-22  
[30] US (09/010,664) 1998-01-22

---

[21] **2,256,096**  
[13] A1  
[51] **Int.Cl. 6C07D 417/04 6C07D 417/14 6A61K 31/425**  
[25] EN  
[54] **1-ISOTHIAZOLIDINONE DERIVATIVES OF AZETIDINE-2-ONE, PROCESSES FOR THE PREPARATION THEREOF AND USE THEREOF**  
[54] **DERIVES 1-ISOTHIAZOLIDINONIQUES DE L'AZETIDINE-2-ONE, PROCESSES DE PREPARATION ET UTILISATIONS DE CES DERIVES**  
[72] HERAK, Jure J., HR  
[71] PLIVA FARMACEUTSKA, KEMIJSKA, PREHRAMBENA I KOZMETICKA INDUSTRIJA, DIONI, HR  
[22] 1998-12-29  
[43] 1999-07-20  
[30] HR (P980026A) 1998-01-20

---

[21] **2,256,137**  
[13] A1  
[51] **Int.Cl. 6G01F 1/86 6B67D 5/08**  
[25] EN  
[54] **ARRANGEMENT FOR THE DETERMINATION OF THE MASS THROUGH-FLOW OF A GASEOUS MEDIUM**  
[54] **DISPOSITIF PERMETTANT DE DETERMINER LE DEBIT MASSIQUE D'UN MILIEU GAZEUX**  
[72] MUTTER, Heinz, CH  
[71] MASCHINENFABRIK SULZER-BURCKHARDT AG, CH  
[22] 1998-12-16  
[43] 1999-07-20  
[30] EP (98810022.8) 1998-01-20

---

[21] **2,256,300**  
[13] A1  
[51] **Int.Cl. 6C11D 1/86 6C12S 9/00 6C23G 1/24 6C11D 3/386**  
[25] EN  
[54] **DE-OILING PROCESS USING ENZYMES**  
[54] **PROCEDE DE DESHUILAGE A L'AIDE D'ENZYMES**  
[72] LATTA, Charles J., US  
[71] C.J. LATTA & ASSOCIATES, L.L.C., US  
[22] 1998-12-17  
[43] 1999-07-23  
[30] US (60/072,348) 1998-01-23

---

[21] **2,256,301**  
[13] A1  
[51] **Int.Cl. 6C10L 1/22**  
[25] EN  
[54] **FUEL LUBRICITY FROM BLENDS OF A DIETHANOLAMINE DERIVATIVE AND BIODIESEL**  
[54] **UTILISATION DE MELANGES D'UN DERIVE DE LA DIETHANOLAMINE ET DE BIODIESEL POUR AMELIORER LE POUVOIR LUBRIFIANT DES CARBURANTS**  
[72] BRENNAN, Timothy J., US  
[72] BOSTICK, John G. (deceased), US  
[72] BALL, Keith Frederick, US  
[71] ETHYL CORPORATION, US  
[22] 1998-12-17  
[43] 1999-07-20  
[30] US (009,152) 1998-01-20

---

[21] **2,256,810**  
[13] A1  
[51] **Int.Cl. 6F21V 21/10 6F21V 21/06 6F21V 21/12 6F21V 21/22**  
[25] EN  
[54] **WORKLIGHT WITH STAND**  
[54] **LAMPE DE TRAVAIL AVEC SUPPORT**  
[72] QIAN, Pei Sheng, CN  
[71] REGENT LIGHTING CORPORATION, US  
[22] 1998-12-22  
[43] 1999-07-22  
[30] US (09/056,334) 1998-04-07  
[30] US (60/072,163) 1998-01-22

---

[21] **2,256,978**  
[13] A1  
[51] **Int.Cl. 6G05B 19/045 6G06F 7/00 6G06F 15/18 6H04Q 7/38 6G06F 17/40**  
[25] EN  
[54] **HANDOVER CONTROL METHOD AND APPARATUS USING FUZZY LOGIC**  
[54] **METHODE ET APPAREIL DE COMMANDE DE TRANSFERT UTILISANT LA LOGIQUE FLOUE**  
[72] FERNANDEZ, Christopher Lawrence, US  
[72] HERPERS, Martine Madelaine, DE  
[72] HOCH, James Edward, US  
[72] KURDUKAR, Prashant Janardham, US  
[72] RAMESH, Masoor, US  
[71] LUCENT TECHNOLOGIES INC., US  
[22] 1998-12-23  
[43] 1999-07-19  
[30] US (09/009,147) 1998-01-19

---

[21] **2,257,027**  
[13] A1  
[51] **Int.Cl. 6G01F 11/02 6A47K 5/10 6F04B 43/12**  
[25] EN  
[54] **A METHOD AND DEVICE FOR DOSING POWDERED MATERIALS**  
[54] **METHODE ET DISPOSITIF DE DOSAGE DE MATIERES PULVERULENTES**  
[72] EVERS, Lucas Maria Alphonsus, NL  
[72] van DIJK, Jakob, NL  
[72] POBUDA, Miro, NL  
[72] MULLER, Ronald, NL  
[72] KLARENBECK, Ruud, NL  
[72] LOS, Leendert, NL  
[71] UNILEVER PLC, GB  
[22] 1998-12-24  
[43] 1999-07-21  
[30] NL (1008080) 1998-01-21

**Demandes canadiennes mises à la disponibilité du public**  
**18 juillet 1999 - 24 juillet 1999**

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[21] **2,257,062**  
[13] A1

[51] **Int.Cl. 6F16B 37/04 6F16B 37/02**  
[25] EN  
[54] **THREADED NUT EXPANSION FASTENER**  
[54] **PIECE DE FIXATION EXPANSIBLE A ECROU FILETE**  
[72] MUMBY, James Richard, CA  
[72] DANBY, Michael Richard, CA  
[71] EATON CORPORATION, US  
[22] 1998-12-30  
[43] 1999-07-22  
[30] US (09/010,646) 1998-01-22

---

[21] **2,257,391**  
[13] A1

[51] **Int.Cl. 6F16B 37/04 6F16B 37/02**  
[25] EN  
[54] **MID-PANEL NUT**  
[54] **ECROU DE MI-PANNEAU**  
[72] FISCHER John D., US  
[71] CALIFORNIA INDUSTRIAL PRODUCTS, INC., US  
[22] 1998-12-22  
[43] 1999-07-20  
[30] US (09/009,348) 1998-01-20

---

[21] **2,257,470**  
[13] A1

[51] **Int.Cl. 6B25F 1/02 6B25B 15/00 6B26B 11/00**  
[25] FR  
[54] **OUTIL DE POCHE MULTIFONCTIONNEL**  
[54] **POCKET MULTI-TOOL**  
[72] CACHOT, Maurice, CH  
[71] WENGER SA, CH  
[22] 1999-01-18  
[43] 1999-07-21  
[30] EP (98810028.5) 1998-01-21

---

[21] **2,257,476**  
[13] A1

[51] **Int.Cl. 6B61B 12/00 6B61B 10/02**  
[25] FR  
[54] **ENTRAINEMENT PAR PNEUMATIQUES DE VEHICULES D'UNE INSTALLATION DE TRANSPORT A CABLE AERIEN**  
[54] **VEHICLE-TIRE-DRIVEN AERIAL CABLE CAR INSTALLATION**  
[72] BROCHAND, Max, FR  
[71] POMAGALSKI SA, FR  
[22] 1999-01-18  
[43] 1999-07-21  
[30] FR (98 00 609) 1998-01-21

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[21] **2,257,478**  
[13] A1

[51] **Int.Cl. 6B65G 47/66 6B65G 47/34**  
[25] EN  
[54] **CONVEYING SYSTEM FOR CONVEYING PRODUCTS, AND SLIDE-OVER DEVICE**  
[54] **CONVOYEUR POUR TRANSPORTER DES PRODUITS, ET DISPOSITIF DE RECUPERATION**  
[72] VAN ZIJDERVELD, George Johannes, NL  
[72] VAN ESCH, Franciscus Josephus Maria, NL  
[71] MCC NEDERLAND B.V., NL  
[22] 1999-01-18  
[43] 1999-07-19  
[30] NL (1008070) 1998-01-19

---

[21] **2,257,480**  
[13] A1

[51] **Int.Cl. 6B65G 17/06 6B65G 17/08**  
[25] EN  
[54] **CONVEYOR MAT AND SYSTEM FOR CONVEYING PRODUCTS**  
[54] **BANDE TRANSPORTEUSE ET SYSTEME POUR TRANSPORTER DES PRODUITS**  
[72] VAN ZIJDERVELD, George Johannes, NL  
[72] VAN ESCH, Franciscus Josephus Maria, NL  
[71] MCC NEDERLAND B.V., NL  
[22] 1999-01-18  
[43] 1999-07-19  
[30] NL (1008069) 1998-01-19

---

[21] **2,257,483**  
[13] A1

[51] **Int.Cl. 6B27B 13/00 6B27B 15/08**  
[25] EN  
[54] **RESAW FOR CUTTING MULTIPLE BOARDS SIMULTANEOUSLY**  
[54] **SCIE A REFENDRE POUR COUPER PLUSIEURS PLANCHES SIMULTANEMENT**  
[72] BAKER, Edward L., US  
[71] BAKER, Edward L., US  
[22] 1999-01-18  
[43] 1999-07-19  
[30] US (09/008,765) 1998-01-19

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[21] **2,257,485**  
[13] A1

[51] **Int.Cl. 6B65D 83/44 6B65D 83/48**  
[25] FR  
[54] **VALVE A REGULATION DE DEBIT DE SORTIE, ET RECIPIENT EQUIPE D'UNE TELLE VALVE**  
[54] **OUTLET FLOW CONTROL VALVE, AND CONTAINER EQUIPPED WITH SUCH A VALVE**  
[72] BENOIST, Jean-François, FR  
[71] L'OREAL, FR  
[22] 1999-01-19  
[43] 1999-07-23  
[30] FR (98 00 720) 1998-01-23

---

[21] **2,257,487**  
[13] A1

[51] **Int.Cl. 6C07C 321/14 6C07C 321/22 6C07C 319/24 6C07C 321/28**  
[25] FR  
[54] **SYNTHESE DE DISULFURES ET POLYSULFURES ORGANIQUES**  
[54] **SYNTHESIS OF ORGANIC DISULFIDES AND POLYSULFIDES**  
[72] FREMY, Georges, FR  
[71] ELF ATOCHEM S.A., FR  
[22] 1999-01-19  
[43] 1999-07-22  
[30] FR (98 00 660) 1998-01-22

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[21] **2,257,489**  
[13] A1

[51] **Int.Cl. 6A47B 13/08 6A47B 3/08**  
[25] EN  
[54] **PORTABLE FOLDING TABLE INCORPORATING A LIGHTWEIGHT CORE**  
[54] **TABLE PLIANTE PORTATIVE INCORPORANT UN DESSUS LEGER**  
[72] GRIEPENTROG, Dennis G., US  
[72] HORNBERGER, Timothy G., US  
[71] KRUEGER INTERNATIONAL, INC., US  
[22] 1999-01-14  
[43] 1999-07-19  
[30] US (09/008,732) 1998-01-19

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Canadian Laid-Open Applications  
July 18, 1999 - July 24, 1999

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[21] **2,257,498**  
[13] A1  
[51] **Int.Cl. 6B65C 9/18 6B65C 9/00**  
[25] EN  
[54] **APPARATUS AND METHOD FOR CONVERTING AND APPLYING LABELS**  
[54] **APPAREIL ET METHODE DE TRANSFORMATION ET D'APPLICATION D'ETIQUETTES**  
[72] OOSTERLINCK, Marc F., US  
[71] CCL LABEL, INC., US  
[22] 1999-01-19  
[43] 1999-07-21  
[30] US (09/009,992) 1998-01-21

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[21] **2,257,506**  
[13] A1  
[51] **Int.Cl. 6A63B 21/075**  
[25] EN  
[54] **WEIGHT-LIFTING APPARATUS AND METHOD**  
[54] **APPAREIL ET METHODE D'HALTEROPHILIE**  
[72] TRURAN, Thomas M., US  
[72] SCHIFF, Jon D., US  
[72] ROTH, Mark R., US  
[71] PREMISE GROUP, LLC, US  
[22] 1999-01-19  
[43] 1999-07-22  
[30] US (09/010,863) 1998-01-22

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[21] **2,257,516**  
[13] A1  
[51] **Int.Cl. 6B01J 20/26 6C08L 101/14 6A61L 15/22 6A61L 15/60**  
[25] EN  
[54] **SUPER ABSORBING POLYMER CONTAINING BODIES, PROCESS FOR THEIR MANUFACTURE AND THEIR USE**  
[54] **PROCEDE DE FABRICATION ET METHODE D'UTILISATION DE CORPS CONTENANT UN POLYMERE SUPER-ABSORBANT**  
[72] SCHAUT, Gerhard, DE  
[72] GROITZSCH, Dieter, DE  
[71] CARL FREUDENBERG, DE  
[22] 1999-01-18  
[43] 1999-07-19  
[30] DE (19801680.8) 1998-01-19

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[21] **2,257,518**  
[13] A1  
[51] **Int.Cl. 6H04B 10/17**  
[25] EN  
[54] **SPLIT-PUMPED DUAL STAGE OPTICAL FIBER AMPLIFIER**  
[54] **AMPLIFICATEUR A DEUX ETAGES A POMPE DIVISEE POUR FIBRES OPTIQUES**  
[72] JANDER, Ralph Brian, US  
[71] TYCO SUBMARINE SYSTEMS LTD., US  
[22] 1999-01-19  
[43] 1999-07-22  
[30] US (09/010,598) 1998-01-22

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[21] **2,257,519**  
[13] A1  
[51] **Int.Cl. 6H01S 3/091**  
[25] EN  
[54] **APPARATUS AND METHOD FOR CONTROLLING SHARED OPTICAL PUMP POWER SOURCES**  
[54] **DISPOSITIF ET METHODE DE CONTROLE DE SOURCES D'ALIMENTATION DE POMPAGE OPTIQUE PARTAGEES**  
[72] JANDER, Ralph Brian, US  
[72] BAUMGARTEN, Arthur A., US  
[71] TYCO SUBMARINE SYSTEMS LTD., US  
[22] 1999-01-19  
[43] 1999-07-22  
[30] US (09/010,599) 1998-01-22

---

[21] **2,257,522**  
[13] A1  
[51] **Int.Cl. 6B60T 13/52 6B60T 13/57**  
[25] EN  
[54] **BREAKING SYSTEM HAVING VACUUM BOOSTER WHOSE BOOSTING RATIO IS LOWERED AT FIXED TRANSITION POINT AT WHICH WHEEL CYLINDER PRESSURE INCREASE IS INITIATED**  
[54] **SYSTEME DE FREINAGE A MULTIPLICATEUR DE DEPRESSION DONT LE RAPPORT DE MULTIPLICATION DIMINUE A UN POINT DE TRANSITION FIXE OU COMMENCE L'AUGMENTATION DE PRESSION DU CYLINDRE RECEPTEUR**  
[72] ISONO, Hiroshi, JP  
[72] OHNUMA, Yutaka, JP  
[72] MIZUTANI, Yasuji, JP  
[72] NITTA, Hirofumi, JP  
[72] KONDO, Koichi, JP  
[72] SUZUKI, Motoshi, JP  
[71] TOYOTA JIDOSHA KABUSHIKI KAISHA, JP  
[71] AISIN SEIKI KABUSHIKI KAISHA, JP  
[22] 1999-01-19  
[43] 1999-07-20  
[30] JP (10-8383) 1998-01-20

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[21] **2,257,552**  
[13] A1  
[51] **Int.Cl. 6A23L 1/27 6A61K 7/00 6A61K 47/06 6A23L 2/58**  
[25] EN  
[54] **USE OF CAROTENOID AGGREGATES AS COLORANTS**  
[54] **UTILISATION D'AGREGATS DE CAROTENOIDES COMME COLORANTS**  
[72] SCHWEIKERT, Loni, DE  
[72] AUWETER, Helmut, DE  
[72] LUDDECKE, Erik, DE  
[71] SCHWEIKERT, Loni, DE  
[71] AUWETER, Helmut, DE  
[71] LUDDECKE, Erik, DE  
[22] 1999-01-14  
[43] 1999-07-21  
[30] DE (198 02 134.8) 1998-01-21

**Demandes canadiennes mises à la disponibilité du public**  
**18 juillet 1999 - 24 juillet 1999**

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[21] **2,257,567**  
[13] A1

[51] **Int.Cl. 6H04L 12/12**  
[25] EN  
[54] **METHOD FOR SETTING UP A CONNECTION IN A SYNCHRONOUS DIGITAL TELECOMMUNICATIONS NETWORK AND NETWORK ELEMENT**  
[54] **METHODE D'ETABLISSEMENT DE LIAISON DANS UN RESEAU DE TELECOMMUNICATIONS ELEMENT DE RESEAU**  
[72] WEIS, Bernd, DE  
[71] ALCATEL, FR  
[22] 1999-01-18  
[43] 1999-07-20  
[30] DE (198 01 875.4) 1998-01-20

---

[21] **2,257,731**  
[13] A1

[51] **Int.Cl. 6H04B 10/20 6H04J 14/02**  
[25] EN  
[54] **UPGRADING A POWER-SPLITTING PASSIVE OPTICAL NETWORK USING OPTICAL FILTERING**  
[54] **AMELIORATION D'UN RESEAU DIVISEUR DE PUISSANCE OPTIQUE PASSIF AU MOYEN DU FILTRAGE OPTIQUE**  
[72] KNOX, Wayne Harvey, US  
[71] LUCENT TECHNOLOGIES INC., US  
[22] 1999-01-04  
[43] 1999-07-20  
[30] US (09/009,434) 1998-01-20

---

[21] **2,257,735**  
[13] A1

[51] **Int.Cl. 6G01N 1/10**  
[25] EN  
[54] **MOLTEN METAL PROBE**  
[54] **SONDE POUR METAL EN FUSION**  
[72] IKAWA, Osamu, JP  
[72] IWAMOTO, Yasunori, JP  
[71] KAWASO ELECTRIC INDUSTRIAL KABUSHIKI KAISHA, JP  
[22] 1999-01-04  
[43] 1999-07-20  
[30] JP (10-23738) 1998-01-20

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[21] **2,257,744**  
[13] A1

[51] **Int.Cl. 6A63B 59/14**  
[25] EN  
[54] **ALUMINUM HOCKEY STICK WITH ELONGATED GRIPPABLE HANDLE**  
[54] **BATON DE HOCKEY EN ALUMINIUM AVEC MANCHE DE PREHENSION ALLONGE**  
[72] BURGER, George W., US  
[71] BURGER, George W., US  
[22] 1999-01-04  
[43] 1999-07-23  
[30] US (09/012,799) 1998-01-23

---

[21] **2,257,762**  
[13] A1

[51] **Int.Cl. 6B31B 23/00 6B31B 27/00 6B65B 53/02 6B29C 47/06 6B65B 9/10 6B31B 23/18 6B31B 27/18 6B31B 23/26 6B31B 27/26 6B31B 23/64 6B31B 27/64**  
[25] EN  
[54] **METHOD FOR MAKING AND CONVERTING A CENTERFOLDED FILM**  
[54] **METHODE DE FABRICATION ET DE CONVERSION DE FILM DOSSE**  
[72] WEINBERG, Alan S., US  
[72] CHILDRESS, Blaine C., US  
[71] CRYOVAC INC., US  
[22] 1999-01-06  
[43] 1999-07-20  
[30] US (09/009,625) 1998-01-20

---

[21] **2,257,775**  
[13] A1

[51] **Int.Cl. 6F16C 1/14 6F16C 1/22**  
[25] EN  
[54] **REMOTE CONTROL ASSEMBLY HAVING AN IMPROVED LOCKING DESIGN**  
[54] **ENSEMBLE DE TELECOMMANDE AVEC DISPOSITIF DE VERROUILLAGE AMELIORE**  
[72] SRINIVAS, Srinath, US  
[71] TELEFLEX INCORPORATED, US  
[22] 1999-01-06  
[43] 1999-07-22  
[30] US (09/010,663) 1998-01-22

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[21] **2,257,781**  
[13] A1

[51] **Int.Cl. 6D07B 1/06 6B60C 9/04**  
[25] EN  
[54] **A METALLIC CORD FOR THE REINFORCEMENT OF ELASTOMERS**  
[54] **CABLE METALLIQUE POUR LE RENFORCEMENT DES ELASTOMERES**  
[72] SUSUTOGLU, Murat Yasar Ahmet, LU  
[71] THE GOODYEAR TIRE & RUBBER COMPANY, US  
[22] 1999-01-05  
[43] 1999-07-19  
[30] US (09/008,851) 1998-01-19

---

[21] **2,257,782**  
[13] A1

[51] **Int.Cl. 6D07B 1/06 6B60C 9/02**  
[25] EN  
[54] **A METALLIC CORD FOR THE REINFORCEMENT OF ELASTOMERS**  
[54] **CORDON METALLIQUE DE RENFORCEMENT D'ELASTOMERES**  
[72] STARINSHAK, Thomas Walter, US  
[71] THE GOODYEAR TIRE & RUBBER COMPANY, US  
[22] 1999-01-05  
[43] 1999-07-20  
[30] US (09/009,790) 1998-01-20

---

[21] **2,257,786**  
[13] A1

[51] **Int.Cl. 6A47G 29/00 6A47J 47/00 6E05D 7/10**  
[25] EN  
[54] **HINGE ASSEMBLY FOR AN ENCLOSURE**  
[54] **CHARNIERE POUR ENCEINTE**  
[72] SCHEIFELE, Kevin, US  
[72] KINDIG, Michael A., US  
[71] VITA-MIX CORPORATION, US  
[22] 1999-01-05  
[43] 1999-07-20  
[30] US (09/009,716) 1998-01-20

---

Canadian Laid-Open Applications  
July 18, 1999 - July 24, 1999

---

[21] **2,258,067**  
[13] A1  
[51] **Int.Cl. 6E04D 1/16 6B28B 11/04  
6E04C 2/04 6E04F 15/08 6E04F 13/14  
6C04B 24/24**  
[25] EN  
[54] **PRECAST CONCRETE PLATES  
PLAQUES DE BETON  
PREFABRIQUEES**  
[72] HSIN, Roger Shan Chung, US  
[72] BOWE, Michael Damian, US  
[71] ROHM AND HAAS COMPANY, US  
[22] 1999-01-07  
[43] 1999-07-21  
[30] US (60/072,049) 1998-01-21

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[21] **2,258,314**  
[13] A1  
[51] **Int.Cl. 6B60J 1/10 6B62D 31/02**  
[25] EN  
[54] **FLUSH-MOUNTED FRAMELESS  
VEHICLE WINDOW  
FENETRES SANS CADRE,  
INTEGREES A LA CARROSSERIE,  
POUR VEHICULES.**  
[72] BEAUREGARD, Réjean, CA  
[72] CARRIER, Serge, CA  
[72] BLACKBURN, Raymond, CA  
[71] PREVOST CAR INC., CA  
[22] 1999-01-25  
[43] 1999-07-23  
[30] CA (2,224,981) 1998-01-23

---

[21] **2,258,328**  
[13] A1  
[51] **Int.Cl. 6B24B 25/00 6B24B 21/22**  
[25] EN  
[54] **OSCILLATING COMBINATION  
BELT, SPINDLE, AND EDGE SANDER  
PONCEUSE DE BORDURE  
VIBRANTE AVEC COURROIE ET  
CYLINDRE**  
[72] HOSHINO, Kiyoshi, US  
[72] SCHROEDER, James D., US  
[72] DAVIS, David L., US  
[71] EMERSON ELECTRIC CO., US  
[22] 1999-01-20  
[43] 1999-07-21  
[30] US (09/010,231) 1998-01-21

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[21] **2,258,331**  
[13] A1  
[51] **Int.Cl. 6B41F 13/193 6B41F 7/04  
6B41F 35/06 6B41F 13/12**  
[25] EN  
[54] **VARIABLE CUTOFF OFFSET  
PRESS UNIT  
DISPOSITIF DE PRESSE OFFSET A  
DEMARCATIION VARIABLE**  
[72] ERBSTEIN, Bob, US  
[71] IMPRIMERIES  
TRANSCONTINENTAL INC./  
TRANSCONTINENTAL PRINTING INC.,  
CA  
[22] 1999-01-19  
[43] 1999-07-23  
[30] CA (2,224,762) 1998-01-23

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[21] **2,258,334**  
[13] A1  
[51] **Int.Cl. 6B29C 70/32**  
[25] FR  
[54] **PROCEDE DE DEPOSE  
SIMULTANEE PAR BOBINAGE SUR UN  
SUPPORT DE PLUSIEURS MECHEs DE  
FIBRES PRE-IMPREGNEES,  
DISPOSITIF POUR SA MISE EN  
OEUVRE ET STRUCTURES EN  
MATERIAU COMPOSITE AINSI  
OBTENUES**  
[54] **PROCESS FOR THE  
SIMULTANEOUS WINDING OF  
SEVERAL STRANDS OF PRE-  
IMPREGNATED FIBRES ONTO A  
SUPPORT, DEVICE FOR ITS  
UTILIZATION AND COMPOSITE  
MATERIAL STRUCTURES THUS  
OBTAINED**  
[72] DECRAECKER, Patrick, FR  
[72] MONGET, François, FR  
[71] AÉROSPATIALE SOCIÉTÉ  
NATIONALE INDUSTRIELLE, FR  
[22] 1999-01-22  
[43] 1999-07-23  
[30] FR (98 00 936) 1998-01-23

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[21] **2,258,351**  
[13] A1  
[51] **Int.Cl. 6H03M 13/12 6H03M 7/00**  
[25] EN  
[54] **INTERMEDIATE RATE  
APPLICATIONS OF PUNCTURED  
CONVOLUTIONAL CODES FOR 8PSK  
TRELLIS MODULATION OVER  
SATELLITE CHANNELS**  
[54] **APPLICATIONS A TAUX  
INTERMEDIAIRE DE CODES  
CONVULUTIFS DISCONTINUS DE  
MODULATION MDP-8 EN TREILLIS  
SUR VOIES DE TRANSMISSION PAR  
SATELLITE**  
[72] SCHMIDT, Mark, US  
[71] GENERAL INSTRUMENT  
CORPORATION, US  
[22] 1999-01-11  
[43] 1999-07-20  
[30] US (09/008,976) 1998-01-20

---

[21] **2,258,388**  
[13] A1  
[51] **Int.Cl. 6H01L 23/29 6H01L 27/00  
6H01L 21/3065 6C23C 16/56**  
[25] EN  
[54] **SURFACE PROCESSING OF THIN  
FILM CVD DIAMOND COATINGS FOR  
IMPROVED RESISTIVE PROPERTIES  
AND INTEGRATED CIRCUIT  
PACKAGES INCORPORATING  
PROCESSED COATINGS**  
[54] **TRAITEMENT SUPERFICIEL  
POUR AMELIORER LES PROPRIETES  
DE RESISTANCE DE REVETEMENTS  
EN COUCHE MINCE DE DIAMANT,  
OBTENU PAR DEPOT CHIMIQUE EN  
PHASE VAPEUR ET ENSEMBLES DE  
CIRCUITS INTEGRES CONTENANT  
CES REVETEMENTS TRAITES**  
[72] FABIS, Philip M., US  
[71] SAINT-GOBAIN INDUSTRIAL  
CERAMICS, INC., US  
[22] 1999-01-06  
[43] 1999-07-20  
[30] US (60/071,923) 1998-01-20

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[21] **2,258,406**  
[13] A1

[51] **Int.Cl. 6B01D 53/18**  
[25] EN  
[54] **DISTRIBUTOR FOR PACKED LIQUID-VAPOR CONTACT COLUMN**  
[54] **DISTRIBUTEUR POUR COLONNE DE CONTACT LIQUIDE-VAPEUR GARNIE**  
[72] MILLER, Derek, GB  
[72] ARMSTRONG, Phillip A., US  
[72] KALBASSI, Mohammad A., GB  
[71] AIR PRODUCTS AND CHEMICALS, INC., US  
[22] 1999-01-13  
[43] 1999-07-20  
[30] US (09/009,093) 1998-01-20

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[21] **2,258,408**  
[13] A1

[51] **Int.Cl. 6H01J 5/54**  
[25] EN  
[54] **HIGH-PRESSURE DISCHARGE LAMP WITH A BASE AT ONE END**  
[54] **LAMPE A DECHARGE A HAUTE PRESSION AVEC SOCLE A UNE EXTREMITE**  
[72] BECKER, Juergen, DE  
[71] PATENT-TREUHAND-GESELLSCHAFT FUR ELEKTRISCHE GLUEHLAMPEN MBH, DE  
[22] 1999-01-12  
[43] 1999-07-20  
[30] DE (29800687.1) 1998-01-20

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[21] **2,258,417**  
[13] A1

[51] **Int.Cl. 6A43B 5/00 6A43B 5/04**  
[25] EN  
[54] **SHELL FOR SPORTS SHOES**  
[54] **COQUE POUR CHAUSSURES DE SPORT**  
[72] MARCOLIN, Alessandro, IT  
[71] MARCOLIN, Alessandro, IT  
[22] 1999-01-13  
[43] 1999-07-23  
[30] IT (TV98U000003) 1998-01-23

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[21] **2,258,437**  
[13] A1

[51] **Int.Cl. 6B29C 57/04**  
[25] EN  
[54] **METHOD AND APPARATUS FOR EXPANDING AND CONFERRING A CUP SHAPE TO THE TERMINAL JUNCTION SEGMENT OF BI-AXIALLY ORIENTED PIPES MADE OF THERMOPLASTIC MATERIAL**  
[54] **METHODE ET APPAREIL POUR AGRANDIR ET DONNER UNE FORME CONIQUE AU SEGMENT DE RACCORDEMENT DE TUYAUX ORIENTES BI-AXIALEMENT, FABRIQUES EN MATERIAU THERMOPLASTIQUE**  
[72] SAVIOLI, Leopoldo, IT  
[72] TABANELLI, Giorgio, IT  
[72] PEZZI, Lauro, IT  
[71] SICA S.P.A., IT  
[22] 1999-01-13  
[43] 1999-07-19  
[30] IT (RN98A000002) 1998-01-19  
[30] IT (RN98A000006) 1998-02-26

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[21] **2,258,443**  
[13] A1

[51] **Int.Cl. 6D21C 9/10 6D21C 9/16**  
[25] EN  
[54] **PULP BLEACHING PROCESS INCLUDING FINAL STAGE BRIGHTENING STEP WITH SALT OF PEROXYMONOSULFURIC ACID**  
[54] **PROCEDE DE BLANCHIMENT DE PATE COMPRENANT UNE ETAPE FINALE D'AVIVAGE A L'AIDE DE SEL D'ACIDE PEROXYMONOSULFURIQUE**  
[72] KRONIS, John D., US  
[72] ARNOLD, Gerhard, US  
[72] SUNDARA, Rajan P., US  
[71] DEGUSSA CORPORATION, US  
[22] 1999-01-12  
[43] 1999-07-22  
[30] US (09/010,624) 1998-01-22

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[21] **2,258,448**  
[13] A1

[51] **Int.Cl. 6C22C 29/02 6C23C 4/04 6C22C 19/07 6E21B 10/08**  
[25] EN  
[54] **HARDFACING COMPOSITIONS AND HARDFACING COATINGS FORMED BY PULSED PLASMA-TRANSFERRED ARC**  
[54] **COMPOSES ET REVETEMENTS A RECHARGEMENT FORMES PAR ARC TRANSFERE PAR PLASMA PULSE**  
[72] WHITE, Alysia Canson, US  
[72] FANG, Zhigang, US  
[72] SUE, J. Albert, US  
[71] SMITH INTERNATIONAL, INC., US  
[22] 1999-01-13  
[43] 1999-07-23  
[30] US (60/072,275) 1998-01-23  
[30] US (09/153,130) 1998-09-15

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[21] **2,258,455**  
[13] A1

[51] **Int.Cl. 6B01J 19/32**  
[25] EN  
[54] **PACKED LIQUID VAPOR CONTACT COLUMN**  
[54] **COLONNE DE CONTACT LIQUIDE-VAPEUR GARNIE**  
[72] MILLER, Derek, GB  
[72] KALBASSI, Mohammad A., GB  
[72] ARMSTRONG, Phillip A., US  
[71] AIR PRODUCTS AND CHEMICALS, INC., US  
[22] 1999-01-13  
[43] 1999-07-20  
[30] US (09/009,094) 1998-01-20

---

[21] **2,258,457**  
[13] A1

[51] **Int.Cl. 6B23K 26/12**  
[25] EN  
[54] **LASER MACHINING METHOD AND LASER MACHINING APPARATUS**  
[54] **METHODE ET MATERIEL D'USINAGE AU LASER**  
[72] SUGIOKA, Koji, JP  
[72] ZHANG, Jie, JP  
[72] MIDORIKAWA, Katsumi, JP  
[71] THE INSTITUTE OF PHYSICAL AND CHEMICAL RESEARCH, JP  
[22] 1999-01-13  
[43] 1999-07-21  
[30] JP (10-23879) 1998-01-21

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Canadian Laid-Open Applications  
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[21] **2,258,459**  
[13] A1  
[51] **Int.Cl. 6B08B 9/093**  
[25] EN  
[54] **TANK WASHING APPARATUS AND METHOD**  
[54] **DISPOSITIF ET METHODE DE LAVAGE DE RESERVOIRS**  
[72] GOTO, Takahiro, JP  
[72] MANABE, Nobuyuki, JP  
[71] TAIHO INDUSTRIES CO., LTD., JP  
[22] 1999-01-13  
[43] 1999-07-21  
[30] JP (10-9397) 1998-01-21

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[21] **2,258,475**  
[13] A1  
[51] **Int.Cl. 6A47K 13/30**  
[25] EN  
[54] **DISINFECTING TOILET SEAT SYSTEM**  
[54] **SYSTEME DE DESINFECTION POUR SIEGES DE TOILETTE**  
[72] YEUNG, Shu-Ki, CA  
[71] YEUNG, Shu-Ki, CA  
[22] 1999-01-05  
[43] 1999-07-22  
[30] CA (2,221,066) 1998-01-22

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[21] **2,258,958**  
[13] A1  
[51] **Int.Cl. 6C03B 7/16**  
[25] EN  
[54] **INTERNALLY COOLED GLASS GOB DEFLECTOR**  
[54] **DEFLECTEUR DE CUEILLAGE DE VERRE REFROIDI INTERIEUREMENT**  
[72] WOOLDRIDGE, Larry J., US  
[71] OWENS-BROCKWAY GLASS CONTAINER INC., US  
[22] 1999-01-14  
[43] 1999-07-20  
[30] US (09/009,416) 1998-01-20

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[21] **2,258,465**  
[13] A1  
[51] **Int.Cl. 6B65D 71/12**  
[25] EN  
[54] **MULTIPLE PACKAGE GANGING BAND AND BLANK THEREFOR**  
[54] **BANDE D'ATTACHE DE PAQUETS MULTIPLES ET FLAN CONNEXE**  
[72] KUETHE, David Forest, US  
[71] KRAFT FOODS, INC., US  
[22] 1999-01-13  
[43] 1999-07-21  
[30] US (010,260) 1998-01-21

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[21] **2,258,827**  
[13] A1  
[51] **Int.Cl. 6H04Q 7/38 6H04L 5/16**  
[25] EN  
[54] **METHOD AND SYSTEM FOR HALF-DUPLEX WIRELESS COMMUNICATION**  
[54] **METHODE ET SYSTEME DE COMMUNICATION SANS FIL EN MODE SEMI-DUPLEX**  
[72] WOO, Thomas Yat Chung, US  
[71] LUCENT TECHNOLOGIES INC., US  
[22] 1999-01-05  
[43] 1999-07-21  
[30] US (09/010,076) 1998-01-21

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[21] **2,259,032**  
[13] A1  
[51] **Int.Cl. 6G09G 1/08 6H04N 5/06 6H04N 5/44**  
[25] EN  
[54] **HORIZONTAL ELECTRON-BEAM DEFLECTOR, AUTOMATIC FREQUENCY CONTROLLER AND VIDEO SIGNAL RECEIVER**  
[54] **DEFLECTEUR DE FAISCEAU IONIQUE HORIZONTAL, CONTROLEUR DE FREQUENCE AUTOMATIQUE ET RECEPTEUR DE SIGNAL VIDEO**  
[72] TAKAHASHI, Shinji, JP  
[72] NAGAMINE, Takatomo, JP  
[71] SONY CORPORATION, JP  
[22] 1999-01-15  
[43] 1999-07-19  
[30] JP (P10-007882) 1998-01-19

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[21] **2,258,467**  
[13] A1  
[51] **Int.Cl. 6D21D 5/06**  
[25] EN  
[54] **IMPROVED MECHANICAL STRAINER FOR FIBROUS SUSPENSIONS**  
[54] **EPURATEUR MECANIQUE AMELIORE POUR SUSPENSIONS FIBREUSES**  
[72] AVER, Franco, IT  
[72] MAGARAGGIA, Flavio, IT  
[71] COMER SPA, IT  
[22] 1999-01-13  
[43] 1999-07-22  
[30] IT (N.VI98A000008) 1998-01-22

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[21] **2,258,828**  
[13] A1  
[51] **Int.Cl. 6H04Q 7/38 6H04Q 7/22**  
[25] EN  
[54] **SYSTEM AND METHOD FOR OPTIMIZING A WIRELESS NETWORK BY ADAPTIVE CONFIGURATION OF BASE STATIONS AND WIRELESS TERMINALS**  
[54] **SYSTEME ET METHODE POUR OPTIMISER UN RESEAU SANS FIL GRACE A LA CONFIGURATION ADAPTATIVE DES STATIONS DE BASE ET DES TERMINAUX SANS FIL**  
[72] CHU, Ta-Shing, US  
[72] YEH, Yu Shuan, US  
[72] GANS, Michael James, US  
[71] LUCENT TECHNOLOGIES INC., US  
[22] 1999-01-05  
[43] 1999-07-23  
[30] US (09/012,512) 1998-01-23

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[21] **2,259,042**  
[13] A1  
[51] **Int.Cl. 6A61B 17/03 6A61M 25/04**  
[25] EN  
[54] **SURGICAL MESH STABILIZER**  
[54] **STABILISATEUR DE TRELLIS CHIRURGICAL**  
[72] BELKNAP, John C. (deceased), US  
[71] BELKNAP, Marilyn M., US  
[22] 1999-01-18  
[43] 1999-07-22  
[30] US (09/010,721) 1998-01-22

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<p align="right">[21] <b>2,259,060</b> [13] A1</p> <p>[51] <b>Int.Cl. 6F25J 3/04</b> [25] EN [54] <b>SINGLE EXPANDER AND A COLD COMPRESSOR PROCESS TO PRODUCE OXYGEN</b> [54] <b>DISPOSITIF D'EXPANSION SIMPLE ET PROCEDE DE COMPRESSION A FROID POUR PRODUIRE DE L'OXYGENE</b> [72] ZHANG, Yanping, US [72] AGRAWAL, Rakesh, US [72] HERRON, Donn Michael, US [71] AIR PRODUCTS AND CHEMICALS, INC., US [22] 1999-01-15 [43] 1999-07-22 [30] US (09/010,966) 1998-01-22</p>	<p align="right">[21] <b>2,259,066</b> [13] A1</p> <p>[51] <b>Int.Cl. 6F25J 3/04</b> [25] EN [54] <b>ELEVATED PRESSURE AIR SEPARATION PROCESS WITH USE OF WASTE EXPANSION FOR COMPRESSION OF A PROCESS STREAM</b> [54] <b>PROCEDE DE SEPARATION DE L'AIR A PRESSION ELEVEE UTILISANT L'EXPANSION DU CIRCUIT DE REJET POUR LA COMPRESSION D'UN CIRCUIT DE TRAITEMENT</b> [72] FIDKOWSKI, Zbigniew Tadeusz, US [72] HERRON, Donn Michael, US [71] AIR PRODUCTS AND CHEMICALS, INC., US [22] 1999-01-15 [43] 1999-07-22 [30] US (09/012,093) 1998-01-22</p>	<p align="right">[21] <b>2,259,084</b> [13] A1</p> <p>[51] <b>Int.Cl. 6B32B 3/12</b> [25] EN [54] <b>CELL-INSIDE-A-CELL HONEYCOMB MATERIAL</b> [54] <b>MATERIAU EN NID D'ABEILLE A ALVEOLES EMBOITES</b> [72] COLSON, Wendell B., US [72] SWISZCZ, Paul G., US [72] THRONE, Jason T., US [71] HUNTER DOUGLAS INC., US [22] 1999-01-15 [43] 1999-07-23 [30] US (09/012,357) 1998-01-23</p>
<p align="right">[21] <b>2,259,063</b> [13] A1</p> <p>[51] <b>Int.Cl. 6F25J 3/04</b> [25] EN [54] <b>A MULTIPLE EXPANDER PROCESS TO PRODUCE OXYGEN</b> [54] <b>PROCEDE D'EXPANSION MULTIPLE POUR PRODUIRE DE L'OXYGENE</b> [72] ZHANG, Yanping, US [72] HERRON, Donn Michael, US [72] AGRAWAL, Rakesh, US [71] AIR PRODUCTS AND CHEMICALS, INC., US [22] 1999-01-15 [43] 1999-07-22 [30] US (09/010,965) 1998-01-22</p>	<p align="right">[21] <b>2,259,072</b> [13] A1</p> <p>[51] <b>Int.Cl. 6E21B 10/16 6B21K 5/02 6B22D 19/08 6E21B 10/50</b> [25] EN [54] <b>AUTOMATED HARDFACING SYSTEM</b> [54] <b>SYSTEME DE CHARGEMENT DUR DE SOUDAGE AUTOMATISE</b> [72] SUE, J. Albert, US [72] WHITE, Alysia Canson, US [72] FANG, Zhigang, US [71] SMITH INTERNATIONAL, INC., US [22] 1999-01-12 [43] 1999-07-23 [30] US (60/072,275) 1998-01-23 [30] US (09/153,676) 1998-09-15</p>	<p align="right">[21] <b>2,259,087</b> [13] A1</p> <p>[51] <b>Int.Cl. 6B63C 11/04 6B63C 11/08</b> [25] EN [54] <b>TORSO WARMER AND BUOYANCY COMPENSATOR STABILIZER</b> [54] <b>RECHAUFFEUR DE TORSE ET STABILISATEUR DE CORRECTEUR DE LESTAGE</b> [72] STELLA, Joe, US [71] DACOR CORPORATION, US [22] 1999-01-15 [43] 1999-07-23 [30] US (09/012,314) 1998-01-23</p>
<p align="right">[21] <b>2,259,065</b> [13] A1</p> <p>[51] <b>Int.Cl. 6F25J 3/04</b> [25] EN [54] <b>EFFICIENT PROCESS TO PRODUCE OXYGEN</b> [54] <b>PROCEDE EFFICACE DE PRODUCTION D'OXYGENE</b> [72] ZHANG, Yanping, US [72] AGRAWAL, Rakesh, US [72] HERRON, Donn Michael, US [71] AIR PRODUCTS AND CHEMICALS, INC., US [22] 1999-01-15 [43] 1999-07-22 [30] US (09/012,074) 1998-01-22</p>	<p align="right">[21] <b>2,259,079</b> [13] A1</p> <p>[51] <b>Int.Cl. 6F25J 3/04</b> [25] EN [54] <b>AN AIR SEPARATION PROCESS USING WARM AND COLD EXPANDERS</b> [54] <b>PROCEDE DE SEPARATION DE L'AIR UTILISANT DES DISPOSITIFS D'EXPANSION A CHAUD ET A FROID</b> [72] AGRAWAL, Rakesh, US [72] HERRON, Donn Michael, US [71] AIR PRODUCTS AND CHEMICALS, INC., US [22] 1999-01-15 [43] 1999-07-22 [30] US (09/010,958) 1998-01-22</p>	<p align="right">[21] <b>2,259,093</b> [13] A1</p> <p>[51] <b>Int.Cl. 6G01N 33/36 6A41H 43/00 6G06T 1/00 6D04B 35/10 6D04B 7/32 6G01N 21/84</b> [25] EN [54] <b>PROCESS AND APPARATUS FOR DETECTING LOOP STITCH OF TUBULAR KNITTED FABRIC, AND APPARATUS FOR LINKING TUBULAR KNITTED FABRIC</b> [54] <b>PROCEDE ET APPAREIL DE DETECTION DE MAILLE DE TRICOT TUBULAIRE ET APPAREIL D'ASSEMBLAGE DE TRICOT TUBULAIRE</b> [72] KAWAMURA, Sadao, JP [72] TAKEUCHI, Yushi, JP [72] ISHII, Akira, JP [72] WADA, Takahiro, JP [72] FUKITSUKE, Takuya, JP [71] DAN CO., LTD., JP [22] 1999-01-15 [43] 1999-07-19 [30] JP (22625/1998) 1998-01-19 [30] JP (23730/1998) 1998-01-20</p>

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[21] **2,259,103**  
[13] A1  
[51] **Int.Cl. 6H04Q 5/18 6H04Q 3/42**  
[25] EN  
[54] **TELEPHONE SWITCHING SYSTEM**  
[54] **SYSTEME DE COMMUTATION TELEPHONIQUE**  
[72] ANDERSON, James D., US  
[71] GROUND ZERO ENGINEERING, L.L.C., US  
[22] 1999-01-18  
[43] 1999-07-20  
[30] US (09/009,660) 1998-01-20

---

[21] **2,259,111**  
[13] A1  
[51] **Int.Cl. 6A47J 37/12**  
[25] EN  
[54] **APPARATUS FOR FRYING FOOD PRODUCTS**  
[54] **APPAREIL POUR FRIRE DES PRODUITS ALIMENTAIRES**  
[72] DE'LONGHI, Giuseppe, IT  
[71] DE'LONGHI S.P.A., IT  
[22] 1999-01-18  
[43] 1999-07-23  
[30] IT (M198U 000037) 1998-01-23

---

[21] **2,259,113**  
[13] A1  
[51] **Int.Cl. 6C07C 53/126 6C07C 59/01 6C07C 27/02 6C07C 51/09 6C07C 57/12 6C10M 159/20 6C07C 51/41**  
[25] EN  
[54] **CARBOXYLATE OVERBASED GELS**  
[54] **CARBOXYLATES GELLIFIES SURBASES**  
[72] SWEET, William R., US  
[72] JAYNES, Scot E., US  
[71] THE LUBRIZOL CORPORATION, US  
[22] 1999-01-18  
[43] 1999-07-20  
[30] US (09/009,658) 1998-01-20

---

[21] **2,259,677**  
[13] A1  
[51] **Int.Cl. 6F24C 15/10**  
[25] FR  
[54] **APPAREIL DE CUISSON**  
[54] **COOKING DEVICE**  
[72] GRASSI, Michel, FR  
[72] VILATO, Pablo, FR  
[71] EUROKERA, FR  
[22] 1999-01-18  
[43] 1999-07-20  
[30] FR (98/00536) 1998-01-20

---

[21] **2,259,678**  
[13] A1  
[51] **Int.Cl. 6F24C 15/10**  
[25] FR  
[54] **PLAQUE DE VITROCERAMIQUE COMPORTANT UN RELIEF DE REPERAGE TACTILE**  
[54] **GLASS-CERAMIC PLATE COMPRISING A TACTILE REFERENCE PATTERN**  
[72] VILATO, Pablo, FR  
[72] GRASSI, Michel, FR  
[71] EUROKERA, FR  
[22] 1999-01-18  
[43] 1999-07-20  
[30] FR (98/00537) 1998-01-20

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[21] **2,259,679**  
[13] A1  
[51] **Int.Cl. 6B63B 21/44 6B63B 21/46**  
[25] FR  
[54] **ANCRE A PARTIE D'ACCROCHAGE ARTICULEE**  
[54] **ANCHOR WITH ARTICULATED FLUKES**  
[72] VERRIER, Jean-Pierre, FR  
[71] VERRIER, Jean-Pierre, FR  
[22] 1999-01-18  
[43] 1999-07-20  
[30] FR (98 00637) 1998-01-20

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[21] **2,259,695**  
[13] A1  
[51] **Int.Cl. 6E01B 35/00**  
[25] EN  
[54] **A METHOD OF CORRECTING THE POSITION OF A TRACK**  
[54] **METHODE DE CORRECTION DE POSITION DE VOIE**  
[72] OBERLECHNER, Günther W., US  
[72] THEURER, Josef, AT  
[71] FRANZ PLASSER BAHNBAUMASCHINEN-INDUSTRIEGESELLSCHAFT M.B.H., AT  
[22] 1999-01-18  
[43] 1999-07-19  
[30] AT (A 62/98) 1998-01-19

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[21] **2,259,696**  
[13] A1  
[51] **Int.Cl. 6H01P 7/10 6H01P 1/20 6H03H 9/24**  
[25] EN  
[54] **DIELECTRIC FILTER AND DIELECTRIC DUPLEXER**  
[54] **FILTRE DIELECTRIQUE ET DUPLEXEUR DIELECTRIQUE**  
[72] KUBOTA, Kazuhiko, JP  
[72] ISE, Tomoyuki, JP  
[71] MURATA MANUFACTURING CO., LTD., JP  
[22] 1999-01-19  
[43] 1999-07-20  
[30] JP (10-8860) 1998-01-20

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[21] **2,259,697**  
[13] A1  
[51] **Int.Cl. 6A01N 47/38 6A01N 25/32**  
[25] EN  
[54] **HERBICIDAL COMPOSITION**  
[54] **COMPOSITION HERBICIDE**  
[72] CORNES, Derek, CH  
[72] GLOCK, Jutta, CH  
[71] NOVARTIS AG, CH  
[22] 1999-01-19  
[43] 1999-07-21  
[30] CH (135/98) 1998-01-21

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[21] **2,259,698**  
[13] A1  
[51] **Int.Cl. 6A61K 31/435 6A61K 9/16 6A61K 9/36**  
[25] EN  
[54] **TROVAFLOXACIN MESYLATE TABLET**  
[54] **COMPRIME DE MESYLATE DE TROVAFLOXACINE**  
[72] JOHNSON, Alton Dale, US  
[72] SINKO, Christopher Michael, US  
[71] PFIZER PRODUCTS INC., US  
[22] 1999-01-19  
[43] 1999-07-21  
[30] US (60/072,013) 1998-01-21

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**Demandes canadiennes mises à la disponibilité du public**  
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[21] **2,259,699**  
[13] A1

[51] **Int.Cl. 6A61K 47/40 6A23K 1/16 6A61K 31/70**  
[25] EN  
[54] **CYCLODEXTRIN COMPOSITIONS DE COMPOSITIONS DE CYCLODEXTRINE**  
[72] RINGSHAW, David, GB  
[72] MOSS, Philip Edward, GB  
[72] ON, Ninh, GB  
[71] PFIZER INC., US  
[22] 1999-01-18  
[43] 1999-07-20  
[30] GB (9801109.1) 1998-01-20

---

[21] **2,259,700**  
[13] A1

[51] **Int.Cl. 6B23K 26/00 6B27B 23/00 6B26D 9/00 6B27L 5/06**  
[25] EN  
[54] **LASER-ASSISTED CUTTING DEVICE**  
[54] **DISPOSITIF DE COUPE ASSISTEE PAR LASER**  
[72] WHITTENBURY, Clive G., US  
[71] WHITTENBURY, Clive G., US  
[22] 1999-01-20  
[43] 1999-07-21  
[30] US (09/009,908) 1998-01-21

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[21] **2,259,701**  
[13] A1

[51] **Int.Cl. 6H04M 1/274 6H04M 1/26**  
[25] EN  
[54] **TELEPHONE WITH ADAPTIVE SPEED DIAL MECHANISM**  
[54] **TELEPHONE AVEC MECANISME DE COMPOSITION A VITESSE ADAPTATIVE**  
[72] CANNON, Joseph M., US  
[72] FADAVI-ARDEKANI, Jalil, US  
[72] JOHANSON, James A., US  
[71] LUCENT TECHNOLOGIES INC., US  
[22] 1999-01-19  
[43] 1999-07-20  
[30] US (09/009,600) 1998-01-20

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[21] **2,259,703**  
[13] A1

[51] **Int.Cl. 6H01L 23/473**  
[25] FR  
[54] **COMPOSANT ELECTRONIQUE DE PUISSANCE ET SON PROCEDE DE FABRICATION**  
[54] **ELECTRONIC POWER COMPONENT AND MANUFACTURING PROCESS**  
[72] SARRUS, Franck, FR  
[72] RUBICHON, Yvan, FR  
[72] BONHOMME, Christian, FR  
[71] FERRAZ DATE INDUSTRIES, FR  
[22] 1999-01-19  
[43] 1999-07-19  
[30] FR (98 00745) 1998-01-19

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[21] **2,259,704**  
[13] A1

[51] **Int.Cl. 6H01R 13/717 6H01R 13/66**  
[25] EN  
[54] **ILLUMINATED ELECTRICAL RECEPTACLE EMPLOYING ELECTROLUMINESCENT LAMP MEMBER**  
[54] **PRISE DE COURANT LUMINEUSE FAISANT APPEL A UNE LAMPE ELECTROLUMINESCENTE INTEGREE**  
[72] DIORIO, Joseph, US  
[72] YU, Dongxiao, US  
[71] YU, Dongxiao, US  
[71] LEVITON MANUFACTURING CO., INC., US  
[22] 1999-01-19  
[43] 1999-07-21  
[30] US (09/010,214) 1998-01-21

---

[21] **2,259,706**  
[13] A1

[51] **Int.Cl. 6H01H 3/02 6H01H 9/00**  
[25] EN  
[54] **ILLUMINATED ROCKER ASSEMBLY EMPLOYING ELECTROLUMINESCENT LAMP MEMBER**  
[54] **INTERRUPTEUR A BASCULE LUMINEUX FAISANT APPEL A UNE LAMPE ELECTROLUMINESCENTE INTEGREE**  
[72] DIORIO, Joseph, US  
[72] YU, Dongxiao, US  
[71] YU, Dongxiao, US  
[71] LEVITON MANUFACTURING CO., INC., US  
[22] 1999-01-19  
[43] 1999-07-21  
[30] US (09/010,209) 1998-01-21

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[21] **2,259,707**  
[13] A1

[51] **Int.Cl. 6A01N 35/04**  
[25] EN  
[54] **DISINFECTING AND STERILIZING CONCENTRATE CONTAINING AN AROMATIC DIALDEHYDE AND A NEUTRAL PH BUFFERING SYSTEM**  
[54] **CONCENTRE DESINFECTANT ET STERILISANT RENFERMANT UN DIALDEHYDE AROMATIQUE ET UN SYSTEME TAMPON DE PH NEUTRE**  
[72] BLOCK, Philip A., US  
[71] ETHICON, INC., US  
[22] 1999-01-20  
[43] 1999-07-21  
[30] US (09/010,351) 1998-01-21

---

[21] **2,259,708**  
[13] A1

[51] **Int.Cl. 6C08G 77/388 6C08L 51/08 6C08F 283/12 6D06M 15/643**  
[25] EN  
[54] **AMINO-FUNCTIONAL POLYORGANOSILOXANES, THEIR PRODUCTION AND USE**  
[54] **POLYORGANOSILOXANES A GROUPEMENTS FONCTIONNELS AMINES, PRODUCTION ET UTILISATION**  
[72] RAUTSCHEK, Holger, DE  
[72] MESSNER, Michael, DE  
[71] HULS AKTIENGESELLSCHAFT, DE  
[22] 1999-01-20  
[43] 1999-07-21  
[30] DE (P 198 02 069.4) 1998-01-21

---

[21] **2,259,709**  
[13] A1

[51] **Int.Cl. 6A01N 33/12 6A01N 57/04 6A01N 47/12 6A01N 31/16 6A01N 47/36 6A01N 37/40**  
[25] EN  
[54] **ANTI-MICROBIAL COMPOSITION**  
[54] **COMPOSITION ANTIMICROBIENNE**  
[72] NEWMAN, Jerry L., US  
[72] JAMPANI, Hanuman J., US  
[71] ETHICON, INC., US  
[22] 1999-01-20  
[43] 1999-07-20  
[30] US (09/009,596) 1998-01-20

---

Canadian Laid-Open Applications  
July 18, 1999 - July 24, 1999

---

[21] **2,259,710**  
[13] A1  
[51] **Int.Cl. 6H02B 1/46**  
[25] EN  
[54] **ENCLOSURE FOR INTERFACING ELECTRICAL AND CONTROL OR COMMUNICATION DEVICES**  
[54] **ENCEINTE PERMETTANT L'INTERFACAGE DE DISPOSITIFS ELECTRIQUES ET DE DISPOSITIFS DE COMMANDE OU DE COMMUNICATION**  
[72] O'DONNELL, Patrick, CA  
[71] O'DONNELL, Patrick, CA  
[22] 1999-01-20  
[43] 1999-07-21  
[30] CA (2,227,659) 1998-01-21  
[30] US (09/046,370) 1998-03-23

---

[21] **2,259,713**  
[13] A1  
[51] **Int.Cl. 6G09F 11/06 6G09F 11/08**  
[25] EN  
[54] **MULTI-LEAF ROTATING SIGN**  
[54] **ENSEIGNE A LAMES MULTIPLES TOURNANTES**  
[72] MARUFLU, Burc Z., US  
[71] XODIAC INCORPORATED, US  
[22] 1999-01-20  
[43] 1999-07-20  
[30] US (60/071,947) 1998-01-20

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[21] **2,259,715**  
[13] A1  
[51] **Int.Cl. 6C08J 5/02**  
[25] EN  
[54] **MULTI-LAYERED THIN-WALLED POWDER-FREE ARTICLES**  
[54] **ARTICLES SANS POUFRE MULTICOUCHES MINCES**  
[72] GAETZ, Lisa, CA  
[72] SHARMA, Pam, CA  
[72] HACKER, David M., CA  
[72] LEIDNER, Jacob, CA  
[71] ECI MEDICAL TECHNOLOGIES INC., CA  
[22] 1999-01-20  
[43] 1999-07-21  
[30] CA (2,227,645) 1998-01-21

---

[21] **2,259,718**  
[13] A1  
[51] **Int.Cl. 6G01N 15/02 6G01N 15/10**  
[25] EN  
[54] **FLAT AND ELONGATED DEVICE**  
[54] **DISPOSITIF PLAT ET ALLONGE**  
[72] JACOMET, Patrick A., US  
[72] JAHN, David W., US  
[71] MARTIN MARIETTA MATERIALS, INC., US  
[22] 1999-01-20  
[43] 1999-07-20  
[30] US (60/071,858) 1998-01-20  
[30] US (60/109,593) 1998-11-23

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[21] **2,259,719**  
[13] A1  
[51] **Int.Cl. 6G02B 6/44 6E21B 47/12 6H01B 11/22**  
[25] EN  
[54] **FIBER OPTIC WELL LOGGING CABLE**  
[54] **CABLE OPTIQUE DE DIAGRAPHIE DE Puits**  
[72] RAFIE, Saeed, US  
[72] LOPEZ, Josephine, US  
[71] WESTERN ATLAS INTERNATIONAL, INC., US  
[22] 1999-01-20  
[43] 1999-07-23  
[30] US (09/012,334) 1998-01-23

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[21] **2,259,724**  
[13] A1  
[51] **Int.Cl. 6C07K 16/36 6A61K 39/395 6C07K 16/40 6C07K 16/46 6G01N 33/573 6G01N 33/577 6C12N 9/64**  
[25] EN  
[54] **MONOCLONAL ANTIBODY WHICH IS SPECIFIC FOR ACTIVATED COAGULATION FACTOR VII, AND ITS USE**  
[54] **ANTICORPS MONOCLONAL SPECIFIQUE DU FACTEUR V11 DE LA COAGULATION ACTIVE ET SON UTILISATION**  
[72] ROMISCH, Jürgen, DE  
[72] LANG, Wiegand, DE  
[72] RÖDER, Joachim, DE  
[72] FEUSSNER, Annette, DE  
[71] CENTEON PHARMA GMBH, DE  
[22] 1999-01-20  
[43] 1999-07-22  
[30] DE (P 198 02 139.9) 1998-01-22

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[21] **2,259,725**  
[13] A1  
[51] **Int.Cl. 6H01L 21/31 6H01L 27/00**  
[25] EN  
[54] **METHOD OF FABRICATING CAPACITORS IN SEMICONDUCTOR DEVICES**  
[54] **METHODE DE FABRICATION DE CONDENSATEURS DANS DES DISPOSITIFS A SEMICONDUCTEURS**  
[72] TREMBLAY, Yves, CA  
[72] OUELLET, Luc, CA  
[71] MITEL CORPORATION, CA  
[22] 1999-01-20  
[43] 1999-07-23  
[30] GB (9801322.0) 1998-01-23

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[21] **2,259,726**  
[13] A1  
[51] **Int.Cl. 6G02B 26/08 6G02B 6/35**  
[25] EN  
[54] **OPTICAL CROSS POINT SWITCH USING DEFORMABLE MICROMIRROR**  
[54] **COMMUTATEUR DE TRANSMISSION HAUTE-BASSE IMPEDANCE OPTIQUE FAISANT APPEL A UN MICROMIROIR DEFORMABLE**  
[72] NGUYEN, Tam, CA  
[72] MILLER, John, CA  
[72] SKUBNIC, Milan, CA  
[71] MITEL CORPORATION, CA  
[22] 1999-01-20  
[43] 1999-07-24  
[30] GB (9801443.4) 1998-01-24  
[30] CA (2,246,559) 1998-09-04

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[21] **2,259,728**  
[13] A1  
[51] **Int.Cl. 6H02K 5/132**  
[25] EN  
[54] **RIBBED ELASTOMERIC BAG FOR USE WITH ELECTRIC SUBMERSIBLE MOTOR PROTECTORS**  
[54] **SAC NERVURE EN ELASTOMERE UTILISE AVEC DISPOSITIFS DE PROTECTION DE MOTEURS ELECTRIQUES IMMERGEABLES**  
[72] HEINIG, Edine M., US  
[71] CAMCO INTERNATIONAL INC., US  
[22] 1999-01-20  
[43] 1999-07-20  
[30] US (09/008,897) 1998-01-20

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[21] **2,259,729**  
[13] A1

[51] **Int.Cl. 6C08L 15/02 6C08L 9/06**  
[25] EN  
[54] **TIRE INNERLINER COMPOSITION**  
[54] **GOMME INTERIEURE POUR PNEU**  
[72] HALASA, Adel Farhan, US  
[72] GROSS, Bill Bud, US  
[72] BEERS, Roger Neil, US  
[72] BENKO, David Andrew, US  
[71] THE GOODYEAR TIRE & RUBBER COMPANY, US  
[22] 1999-01-20  
[43] 1999-07-23  
[30] US (09/012,288) 1998-01-23

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[21] **2,259,731**  
[13] A1

[51] **Int.Cl. 6B21D 7/16**  
[25] EN  
[54] **INTRADOS INDUCTION HEATING FOR TIGHT RADIUS ROTARY DRAW BEND**  
[54] **METHODE DE CHAUFFAGE PAR INDUCTION D'INTRADOS POUR CINTRAGE PAR ENROULEMENT A RAYON COURT**  
[72] TALLEY, Laroul J., US  
[72] YUREK, Theodore F., US  
[72] ZIEGLER, Douglas D., US  
[72] ROBINSON, Ross G., CA  
[71] THE BABCOCK & WILCOX COMPANY, US  
[22] 1999-01-20  
[43] 1999-07-23  
[30] US (09/012,507) 1998-01-23

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[21] **2,259,739**  
[13] A1

[51] **Int.Cl. 6B29C 44/32**  
[25] EN  
[54] **FOAMED THERMOPLASTIC POLYMER AND WOOD FIBER PROFILE AND MEMBER**  
[54] **POLYMERE THERMOPLASTIQUE EN MOUSSE ET PROFILE ET ELEMENT EN FIBRE DE BOIS**  
[72] FINLEY, Mark D., US  
[71] ANDERSEN CORPORATION, US  
[22] 1999-01-18  
[43] 1999-07-21  
[30] US (09/010,410) 1998-01-21

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[21] **2,259,742**  
[13] A1

[51] **Int.Cl. 6C12Q 1/68**  
[25] EN  
[54] **METHOD FOR REDUCING INHIBITORS OF NUCLEIC ACID HYBRIDIZATION**  
[54] **METHODE DE REDUCTION DES INHIBITEURS DE L'HYBRIDATION D'ACIDES NUCLEIQUES**  
[72] LLORIN, Oscar J., US  
[72] LITTLE, Michael C., US  
[72] COLLIS, Matthew P., US  
[71] BECTON, DICKINSON AND COMPANY, US  
[22] 1999-01-19  
[43] 1999-07-21  
[30] US (09/010,219) 1998-01-21

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[21] **2,259,746**  
[13] A1

[51] **Int.Cl. 6G02B 7/02 6G09F 13/00 6G08G 1/095**  
[25] EN  
[54] **OPTICS UNIT FOR SIGNAL, TRAFFIC AND DISPLAY EQUIPMENT, ARRANGEMENT OF THE SAME THEREIN AND METHOD THEREFORE**  
[54] **OPTIQUE POUR MATERIEL SERVANT A DIFFERENTES FORMES DE SIGNALISATION ET D'AFFICHAGE, DISPOSITION ET METHODE CORRESPONDANTES**  
[72] OTTO, Alexander, AT  
[72] SILHENGST, Franz, AT  
[72] HOFSTADLER, Friedrich Peter, AT  
[71] SWARCO FUTURIT VERKEHRSSIGNALSYSTEME GES. M.B.H., AT  
[22] 1999-01-18  
[43] 1999-07-19  
[30] AT (A 64/98) 1998-01-19

---

[21] **2,259,748**  
[13] A1

[51] **Int.Cl. 6B29C 43/02 6H01M 8/02 6B29B 9/08 6H01M 2/14**  
[25] EN  
[54] **SEPARATOR FOR FUEL CELL AND MANUFACTURING METHOD FOR THE SAME**  
[54] **SEPARATEUR POUR PILES A COMBUSTIBLE ET METHODE DE FABRICATION**  
[72] MIZUNO, Seiji, JP  
[71] TOYOTA JIDOSHA KABUSHIKI KAISHA, JP  
[22] 1999-01-18  
[43] 1999-07-19  
[30] JP (HEI 10-022752) 1998-01-19

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[21] **2,259,749**  
[13] A1

[51] **Int.Cl. 6E01H 5/06**  
[25] EN  
[54] **SNOW BLADE ATTACHMENT ACCESSOIRE POUR ETRAVE DE CHASSE-NEIGE**  
[72] DUGAS, Gerard F., CA  
[71] DUGAS, Gerard F., CA  
[22] 1999-01-19  
[43] 1999-07-22  
[30] CA (2,227,863) 1998-01-22

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[21] **2,259,750**  
[13] A1

[51] **Int.Cl. 6G02B 9/10 6G09F 13/00 6G08G 1/095 6G09F 13/22**  
[25] EN  
[54] **OPTICAL ELEMENT FOR TRAFFIC SIGNS, DISPLAY PANELS OR THE LIKE**  
[54] **ELEMENT OPTIQUE POUR FEUX DE CIRCULATION, PANNEAUX D'AFFICHAGE OU AUTRES APPLICATIONS SIMILAIRES**  
[72] OTTO, Alexander, AT  
[72] SILHENGST, Franz, AT  
[72] HOFSTADLER, Friedrich Peter, AT  
[71] SWARCO FUTURIT VERKEHRSSIGNALSYSTEME GES. M.B.H., AT  
[22] 1999-01-18  
[43] 1999-07-19  
[30] AT (A 63/98) 1998-01-19

---

[21] **2,259,751**  
[13] A1

[51] **Int.Cl. 6H04J 3/00 6H04Q 7/00**  
[25] EN  
[54] **MULTIDIRECTIONAL TIME-DIVISION MULTIPLEXING WIRELESS DATA COMMUNICATIONS SYSTEM**  
[54] **SYSTEME DE COMMUNICATION DE DONNEES MULTIDIRECTIONNEL SANS FIL ~ MULTIPLEXAGE PAR REPARTITION TEMPORELLE**  
[72] SHIMADA, Hideaki, JP  
[71] NEC CORPORATION, JP  
[22] 1999-01-18  
[43] 1999-07-19  
[30] JP (22704/1998) 1998-01-19

---

Canadian Laid-Open Applications  
July 18, 1999 - July 24, 1999

---

[21] **2,259,752**  
[13] A1  
[51] Int.Cl. 6F24H 9/20 6F23N 5/00 6F23Q 23/00  
[25] EN  
[54] INTEGRATED APPLIANCE CONTROL SYSTEM  
[54] SYSTEME DE COMMANDE D'APPAREIL INTEGRE  
[72] ADAMS, Donald J., US  
[72] ROTHROCK, Robert D., US  
[71] ADAMS, Donald J., US  
[71] ROTHROCK, Robert D., US  
[22] 1999-01-19  
[43] 1999-07-23  
[30] US (09/012,697) 1998-01-23

---

[21] **2,259,757**  
[13] A1  
[51] Int.Cl. 6B65H 27/00 6B65H 20/04 6B65H 16/10 6B65B 41/16  
[25] EN  
[54] DEVICE AND MODULE FOR FEEDING WEB-LIKE MATERIAL  
[54] DISPOSITIF ET MODULE D'ALIMENTATION EN MATERIAU SOUS FORME DE FEUILLE CONTINUE  
[72] MIVELAZ, Dominique, CH  
[71] BOBST S.A., CH  
[22] 1999-01-19  
[43] 1999-07-20  
[30] CH (1998 0119/98) 1998-01-20

---

[21] **2,259,758**  
[13] A1  
[51] Int.Cl. 6G07C 3/04 6G07C 3/08 6B23K 9/095 6B23K 9/32  
[25] EN  
[54] METHODS AND APPARATUS FOR WELDING PERFORMANCE MEASUREMENT  
[54] METHODES ET APPAREIL DE MESURE DU RENDEMENT DE SOUDAGE  
[72] VAIDYA, Viwek V., CA  
[72] CHASSE, Christopher C.L., CA  
[71] AIR LIQUIDE CANADA, CA  
[22] 1999-01-20  
[43] 1999-07-20  
[30] US (09/008,903) 1998-01-20

---

[21] **2,259,759**  
[13] A1  
[51] Int.Cl. 6G02F 1/1333 6G02F 1/1335 6G02F 1/136  
[25] EN  
[54] LIQUID CRYSTAL DISPLAY DEVICE  
[54] DISPOSITIF D'AFFICHAGE A CRISTAUX LIQUIDES  
[72] OZAKI, Masayoshi, JP  
[72] TAMURA, Hiroshi, JP  
[71] MATSUSHITA ELECTRONICS CORPORATION, JP  
[22] 1999-01-18  
[43] 1999-07-19  
[30] JP (10-7289) 1998-01-19

---

[21] **2,259,760**  
[13] A1  
[51] Int.Cl. 6E21B 47/09 6E21B 41/00 6G01V 3/30  
[25] EN  
[54] ELECTROMAGNETIC RESISTIVITY TOOL AND METHOD FOR USE OF SAME  
[54] OUTIL A RESISTIVITE ELECTROMAGNETIQUE ET METHODE D'UTILISATION CORRESPONDANTE  
[72] SMITH, Harrison C., US  
[71] HALLIBURTON ENERGY SERVICES, INC., US  
[22] 1999-01-19  
[43] 1999-07-20  
[30] US (09/009,322) 1998-01-20

---

[21] **2,259,761**  
[13] A1  
[51] Int.Cl. 6A23J 1/20 6A23L 1/0562 6A23J 3/08  
[25] EN  
[54] A CONTINUOUS PROCESS OF DYNAMIC HIGH-PRESSURE HOMOGENIZATION FOR THE DENATURATION OF PROTEINS  
[54] PROCEDE CONTINU D'HOMOGENEISATION HAUTE PRESSION DYNAMIQUE POUR LA DENATURATION DES PROTEINES  
[72] LACASSE, Johanne, CA  
[72] PAQUIN, Paul, CA  
[72] SUBIRADE, Muriel, CA  
[72] TURGEON, Sylvie, CA  
[71] UNIVERSITÉ LAVAL, CA  
[22] 1999-01-19  
[43] 1999-07-21  
[30] US (60/072,084) 1998-01-21

---

[21] **2,259,763**  
[13] A1  
[51] Int.Cl. 6C08G 63/676 6C08F 283/01 6C08J 5/04 6C08L 67/06 6B32B 27/08 6C08G 63/91  
[25] EN  
[54] AROMATIC POLYOL END-CAPPED UNSATURATED POLYETHERESTER RESINS AND RESIN COMPOSITIONS CONTAINING THE SAME HAVING IMPROVED CHEMICAL AND/OR WATER RESISTANCE  
[54] RESINES DE POLY(ETHER-ESTER) INSATURE A TERMINAISONS DE POLYOLS AROMATIQUES ET COMPOSITIONS RENFERMANT CELLES-CI AYANT UNE RESISTANCE CHIMIQUE ET/OU A L'EAU AMELIOREE  
[72] HSU, Chih-Pin, US  
[72] ZHAO, Ming Yang, US  
[72] BERGSTROM, Linda, US  
[71] COOK COMPOSITES AND POLYMERS COMPANY, US  
[22] 1999-01-19  
[43] 1999-07-20  
[30] US (60/071,951) 1998-01-20

---

[21] **2,259,766**  
[13] A1  
[51] Int.Cl. 6G01S 1/20 6H04Q 7/30  
[25] EN  
[54] POSITIONING APPARATUS USED IN A CELLULAR COMMUNICATION SYSTEM AND CAPABLE OF CARRYING OUT A POSITIONING WITH A HIGH ACCURACY IN URBAN AREA  
[54] APPAREIL DE POSITIONNEMENT UTILISE DANS UN SYSTEME DE COMMUNICATION CELLULAIRE ET CAPABLE DE DETERMINER LA POSITION AVEC UNE GRANDE PRECISION DANS UNE ZONE URBAINE  
[72] KUWAHARA, Yoshihiko, JP  
[71] NEC CORPORATION, JP  
[22] 1999-01-20  
[43] 1999-07-21  
[30] JP (009908/1998) 1998-01-21

**Demandes canadiennes mises à la disponibilité du public**  
**18 juillet 1999 - 24 juillet 1999**

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[21] **2,259,769**  
[13] A1

[51] **Int.Cl. 6H01M 2/02 6H01M 2/08**  
[25] EN  
[54] **THIN TYPE SEALED CELL AND PRODUCING METHOD THEREOF**  
[54] **PILE ETANCHE MINCE ET METHODE DE FABRICATION CONNEXE**  
[72] NARUKAWA, Satoshi, JP  
[72] SONOZAKI, Tsutomu, JP  
[72] NAKANE, Ikuro, JP  
[72] OHNO, Hiroyuki, JP  
[71] SANYO ELECTRIC CO., LTD., JP  
[22] 1999-01-20  
[43] 1999-07-21  
[30] JP (10-9457) 1998-01-21

---

[21] **2,259,773**  
[13] A1

[51] **Int.Cl. 6A61K 31/70**  
[25] EN  
[54] **ANTIFIBROTIC AGENT**  
[54] **AGENT ANTIFIBROSIQUE**  
[72] YAMAZAKI, Chihiro, JP  
[72] ASARI, Akira, JP  
[72] SEKIGUCHI, Tomoko, JP  
[72] HOSHINO, Jiro, JP  
[71] SEIKAGAKU CORPORATION, JP  
[22] 1999-01-21  
[43] 1999-07-22  
[30] JP (10-10642) 1998-01-22

---

[21] **2,259,775**  
[13] A1

[51] **Int.Cl. 6C01B 3/40 6C21D 1/74**  
[25] EN  
[54] **APPARATUS FOR PRODUCING HEAT TREATMENT ATMOSPHERES**  
[54] **APPAREIL POUR PRODUIRE DES ATMOSPHERES DE TRAITEMENT A LA CHALEUR**  
[72] BARLOW, Alan Russell, US  
[72] VAN DEN SYPE, Jaak Stefaan, US  
[71] PRAXAIR TECHNOLOGY, INC., US  
[22] 1999-01-21  
[43] 1999-07-22  
[30] US (09/010,532) 1998-01-22

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[21] **2,259,777**  
[13] A1

[51] **Int.Cl. 6H01L 31/02 6H01L 31/18**  
[25] EN  
[54] **SUBSTRATE FOR FORMING HIGH-STRENGTH THIN SEMICONDUCTOR ELEMENT AND METHOD FOR MANUFACTURING HIGH-STRENGTH THIN SEMICONDUCTOR ELEMENT**  
[54] **SUBSTRAT POUR ELEMENT SEMICONDUCTEUR MINCE A HAUTE RESISTANCE MECANIQUE ET METHODE DE FABRICATION CORRESPONDANTE**  
[72] ANZAWA, Osamu, JP  
[71] SHARP KABUSHIKI KAISHA, JP  
[22] 1999-01-19  
[43] 1999-07-20  
[30] JP (HEI 10(1998)-009002) 1998-01-20

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[21] **2,259,779**  
[13] A1

[51] **Int.Cl. 6A61B 17/115**  
[25] EN  
[54] **SURGICAL STAPLING INSTRUMENT**  
[54] **AGRAFEUR CHIRURGICAL**  
[72] KNODEL, Bryan D., US  
[71] ETHICON, ENDO-SURGERY, INC., US  
[22] 1999-01-21  
[43] 1999-07-23  
[30] US (09/012,875) 1998-01-23

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[21] **2,259,780**  
[13] A1

[51] **Int.Cl. 6A01N 33/12 6A01N 55/10 6A01N 37/36 6A01N 43/40**  
[25] EN  
[54] **ALCOHOL BASED ANTI-MICROBIAL COMPOSITIONS WITH COSMETIC APPEARANCE**  
[54] **COMPOSITIONS ANTIMICROBIENNES A BASE D'ALCOOL AYANT UN ASPECT COSMETIQUE**  
[72] JAMPANI, Hanuman B., US  
[72] NEWMAN, Anthony W., US  
[72] NEWMAN, Jerry L., US  
[71] ETHICON, INC., US  
[22] 1999-01-19  
[43] 1999-07-20  
[30] US (09/009,491) 1998-01-20

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[21] **2,259,781**  
[13] A1

[51] **Int.Cl. 6A61K 7/48**  
[25] EN  
[54] **LOW TACK LOTION, GELS AND CREAMS**  
[54] **LOTIONS, GELS ET CREMES PEU COLLANTS**  
[72] NEWMAN, Anthony W., US  
[72] JAMPANI, Hanuman B., US  
[71] ETHICON, INC., US  
[22] 1999-01-19  
[43] 1999-07-20  
[30] US (09/009,489) 1998-01-20

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[21] **2,259,782**  
[13] A1

[51] **Int.Cl. 6C09J 11/06 6C09J 131/04 6C09J 133/04**  
[25] EN  
[54] **USE OF LOW TOXICITY SOLVENTS IN WATERBORNE ADHESIVES**  
[54] **UTILISATION DE SOLVANTS PEU TOXIQUES DANS DES ADHESIFS AQUEUX**  
[72] BABCOCK, Kristina, US  
[72] WIECZOREK, Joseph Jr., US  
[71] NATIONAL STARCH AND CHEMICAL INVESTMENT HOLDING CORPORATION, US  
[22] 1999-01-19  
[43] 1999-07-21  
[30] US (09/010,082) 1998-01-21

---

[21] **2,259,784**  
[13] A1

[51] **Int.Cl. 6C07H 17/02 6C07H 15/203 6C07H 15/26 6A61K 31/70**  
[25] EN  
[54] **QUINOLINONE GLYCOSIDE, PRODUCTION PROCESS, AND ANTI-ALLERGIC AGENT**  
[54] **QUINOLINONE (GLYCOSIDE), PROCEDE DE PRODUCTION ET AGENT ANTI-ALLERGENE**  
[72] AOKI, Yasuo, JP  
[72] TAKAGAKI, Hidetsugu, JP  
[72] NAKANISHI, Shigenori, JP  
[72] YAMAGUCHI, Shinobu, JP  
[72] KIMURA, Nobuyuki, JP  
[71] DAINIPPON INK AND CHEMICALS, INC., JP  
[22] 1999-01-19  
[43] 1999-07-19  
[30] JP (10-007462) 1998-01-19

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Canadian Laid-Open Applications  
July 18, 1999 - July 24, 1999

[21] **2,259,788**  
[13] A1

[51] **Int.Cl. 6G06T 17/00 6G06F 19/00 6G06F 17/50**  
[25] EN  
[54] **A METHOD AND SYSTEM FOR GENERATING A STEREOSCOPIC IMAGE OF A GARMENT**  
[54] **METHODE ET SYSTEME DE PRODUCTION D'UNE IMAGE STEREOSCOPIQUE D'UN VETEMENT**  
[72] SAKAGUCHI, Yoshiyuki, JP  
[71] TOYO BOSEKI KABUSHIKI KAISHA, JP  
[22] 1999-01-19  
[43] 1999-07-20  
[30] JP (10-9013) 1998-01-20  
[30] JP (10-9014) 1998-01-20  
[30] JP (10-52138) 1998-03-04  
[30] JP (10-88994) 1998-04-01

[21] **2,259,790**  
[13] A1

[51] **Int.Cl. 6B63H 20/00 6F02B 61/04 6F02M 35/10 6B63H 20/32**  
[25] EN  
[54] **OUTBOARD MOTOR**  
[54] **MOTEUR HORS-BORD**  
[72] HAGA, Nobuo, JP  
[72] TAWA, Hiroki, JP  
[71] HONDA GIKEN KOGYO KABUSHIKI KAISHA, JP  
[22] 1999-01-19  
[43] 1999-07-19  
[30] JP (10-008120) 1998-01-19

[21] **2,259,794**  
[13] A1

[51] **Int.Cl. 6H02K 21/12**  
[25] EN  
[54] **PERMANENT MAGNET TYPE ELECTRICAL ROTATING MACHINE**  
[54] **MACHINE ELECTRIQUE TOURNANTE A AIMANT PERMANENT**  
[72] TAKAHASHI, Norio, JP  
[72] HASHIBA, Yutaka, JP  
[72] TOKUMASU, Tadashi, JP  
[72] SAKAI, Kazuto, JP  
[71] KABUSHIKI KAISHA TOSHIBA, JP  
[22] 1999-01-21  
[43] 1999-07-23  
[30] JP (P10-010914) 1998-01-23

[21] **2,259,797**  
[13] A1

[51] **Int.Cl. 6F27D 7/02 6F25J 3/04**  
[25] EN  
[54] **COMBINED PLANT OF A FURNACE AND AIR DISTILLATION DEVICE, AND IMPLEMENTATION PROCESS**  
[54] **INSTALLATION COMBINEE COMPRENANT UN FOUR ET UN DISPOSITIF DE DISTILLATION D'AIR, ET PROCESSUS DE MISE EN OEUVRE**  
[72] GUILLARD, Alain, FR  
[71] L' AIR LIQUIDE, SOCIÉTÉ ANONYME POUR L'ETUDE ET L'EXPLOITATION DES, FR  
[22] 1999-01-19  
[43] 1999-07-23  
[30] FR (98/00722) 1998-01-23

[21] **2,259,804**  
[13] A1

[51] **Int.Cl. 6F16L 33/00 6A61L 31/00 6A61J 1/20**  
[25] EN  
[54] **UNIVERSAL CONNECTOR**  
[54] **CONNECTEUR UNIVERSEL**  
[72] NIEDOSPIAL, John J., US  
[72] GABBARD, Mark E., US  
[72] GABBARD, Timothy J., US  
[71] BRACCO INTERNATIONAL B.V., NL  
[22] 1999-01-19  
[43] 1999-07-20  
[30] US (09/009,487) 1998-01-20

[21] **2,259,805**  
[13] A1

[51] **Int.Cl. 6G06F 17/24 6G06F 3/14**  
[25] EN  
[54] **MAINTAINING DOCUMENT STATE HISTORY**  
[54] **TENUE DE L'HISTOIRE DES ETATS DE DOCUMENTS**  
[72] SCOUTEN, Eric A., US  
[72] PAPPAS, Robert J., US  
[72] RIMMI, Katja, US  
[72] HAMBURG, Mark, US  
[72] GILLEY, Glenn G., US  
[72] HERASIMCHUK, Andrei M., US  
[71] ADOBE SYSTEMS INCORPORATED, US  
[22] 1999-01-21  
[43] 1999-07-22  
[30] US (09/010,801) 1998-01-22

[21] **2,259,809**  
[13] A1

[51] **Int.Cl. 6D21F 3/02**  
[25] EN  
[54] **PRESS SECTION AND METHOD OF USING THE SAME**  
[54] **SECTION DE PRESSION ET METHODE D'UTILISATION CONNEXE**  
[72] STEINER, Karl, DE  
[72] MEINECKE, Albrecht, DE  
[71] VOITH SULZER PAPIERTECHNIK PATENT GMBH, DE  
[22] 1999-01-20  
[43] 1999-07-21  
[30] DE (198 02 054.6) 1998-01-21

[21] **2,259,810**  
[13] A1

[51] **Int.Cl. 6C07C 69/14 6C07C 67/04**  
[25] EN  
[54] **ESTER SYNTHESIS**  
[54] **SYNTHESE D'ESTERS**  
[72] SHARMA, Bhushan, GB  
[72] HODGE, Stephen Robert, GB  
[72] FROOM, Simon Frederick Thomas, GB  
[71] BP CHEMICALS LIMITED, GB  
[22] 1999-01-21  
[43] 1999-07-22  
[30] GB (9801426.9) 1998-01-22  
[30] GB (9817571.4) 1998-08-12

[21] **2,259,811**  
[13] A1

[51] **Int.Cl. 6A23C 9/123 6A23C 9/13**  
[25] EN  
[54] **LAYERED, FLAVORED YOGURT PRODUCT**  
[54] **PRODUIT DE YOGOURT AROMATISE EN COUCHES**  
[72] DELL, William Joseph, US  
[72] CHORDASH, Richard Andrew, US  
[72] LEE, Thomas Daw-Yuan, US  
[71] KRAFT FOODS, INC., US  
[22] 1999-01-19  
[43] 1999-07-21  
[30] US (010,521) 1998-01-21

**Demandes canadiennes mises à la disponibilité du public**  
**18 juillet 1999 - 24 juillet 1999**

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[21] **2,259,813**  
[13] A1

[51] **Int.Cl. 6A63B 55/06**  
[25] EN  
[54] **CARRYING SYSTEM FOR A SELF STANDING GOLF BAG**  
[54] **SYSTEME DE TRANSPORT POUR SAC DE GOLF AUTOPORTANT**  
[72] STEIN, Louis, US  
[72] HEIDENREICH, Chuck, US  
[71] SPALDING SPORTS WORLDWIDE, INC., US  
[22] 1999-01-19  
[43] 1999-07-20  
[30] US (009,038) 1998-01-20

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[21] **2,259,817**  
[13] A1

[51] **Int.Cl. 6C08K 9/04 6C08L 21/00 6C08K 3/20 6C08K 3/34**  
[25] EN  
[54] **A PROCESS FOR THE PREPARATION OF RUBBER MIXTURES CONTAINING WATER REPELLENT OXIDE OR SILICATE FILLERS, AND THE USE THEREOF FOR THE MANUFACTURE OF TYRES**  
[54] **PROCEDE DE PREPARATION DE MELANGES DE CAOUTCHOUC RENFERMANT DES CHARGES D'OXYDE HYDROPHOBE OU DE SILICATE, ET UTILISATION DE CES MELANGES POUR LA FABRICATION DE PNEUS**  
[72] SCHOLL, Thomas, DE  
[71] BAYER AKTIENGESELLSCHAFT, DE  
[22] 1999-01-21  
[43] 1999-07-24  
[30] DE (19802698.6) 1998-01-24

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[21] **2,259,823**  
[13] A1

[51] **Int.Cl. 6B23B 51/00**  
[25] EN  
[54] **HIGH-SPEED GUN DRILL**  
[54] **FORET A HAUTE VITESSE**  
[72] YAMAMOTO, Yoshihiko, JP  
[71] HONDA GIKEN KOGYO KABUSHIKI KAISHA, JP  
[22] 1999-01-21  
[43] 1999-07-22  
[30] JP (25147/1998) 1998-01-22

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[21] **2,259,826**  
[13] A1

[51] **Int.Cl. 6B23K 35/24**  
[25] EN  
[54] **WELDING MATERIAL FOR HIGH-CR STEELS**  
[54] **MATIERE POUR LE SOUDAGE D'ACIERS A HAUTE TENEUR EN CR**  
[72] NISHIMURA, Nobuhiko, JP  
[72] ISHIKAWA, Kaneyasu, JP  
[72] ISHIHARA, Iwami, JP  
[72] KAWANO, Takayuki, JP  
[72] TAKATSU, Tamao, JP  
[72] INAMI, Takashi, JP  
[72] KUMOU, Mitsushige, JP  
[71] NIPPON WELDING ROD CO., LTD., JP  
[71] MITSUBISHI HEAVY INDUSTRIES, LTD., JP  
[22] 1999-01-20  
[43] 1999-07-20  
[30] JP (008411/1998) 1998-01-20

---

[21] **2,259,834**  
[13] A1

[51] **Int.Cl. 6A01K 45/00 6A01K 35/00**  
[25] EN  
[54] **APPARATUS AND METHODS FOR MANAGEMENT OF FLOCKS OF LAYER FOWL**  
[54] **APPAREILS ET METHODES DE GESTION DE BANDES DE POULES PONDEUSES**  
[72] BARUT, Asaf, IL  
[72] MERON, Uri, IL  
[72] ZVILICHOVSKY, David, IL  
[72] YANKOVITZ, Uri, IL  
[72] CAHALON, Rami, IL  
[72] RAFAELI, Gilad, IL  
[71] M.G.H. AGRICULTURAL COOPERATIVE SOCIETY LTD., IL  
[22] 1999-01-20  
[43] 1999-07-20  
[30] IL (123007) 1998-01-20

---

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[21] **2,259,840**  
[13] A1

[51] **Int.Cl. 6H01J 29/07**  
[25] EN  
[54] **SHADOW MASK FOR CATHODE RAY TUBE AND METHOD OF MANUFACTURING SAME**  
[54] **MASQUE PERFORE POUR TUBE CATHODIQUE ET METHODE DE FABRICATION CONNEXE**  
[72] MOON, Sung-hwan, KR  
[72] HAN, Dong-hee, KR  
[72] HAN, Seung-kwon, KR  
[71] SAMSUNG DISPLAY DEVICES CO., LTD., KR  
[22] 1999-01-21  
[43] 1999-07-22  
[30] KR (98-1854) 1998-01-22

---

[21] **2,259,842**  
[13] A1

[51] **Int.Cl. 6H01F 41/06**  
[25] EN  
[54] **DEVICE FOR WINDING COILS IN AXIAL GROOVES OF ROTATIONALLY SYMMETRICAL BODIES OF ELECTRIC EQUIPMENT**  
[54] **DISPOSITIF POUR LE BOBINAGE DE BOBINES DANS DES RAINURES AXIALES D'ELEMENTS SYMETRIQUES EN ROTATION D'APPAREILS ELECTRIQUES**  
[72] KLEINSCHRODT, Rudolf, CH  
[72] RIESER, Urs, CH  
[71] ATS AUTOMATION TOOLING SYSTEMS INC., CA  
[22] 1999-01-21  
[43] 1999-07-21  
[30] CH (0129/98) 1998-01-21

---

[21] **2,259,843**  
[13] A1

[51] **Int.Cl. 6H01J 29/07**  
[25] EN  
[54] **SHADOW MASK FOR CATHODE RAY TUBE AND METHOD OF MANUFACTURING SAME**  
[54] **MASQUE PERFORE POUR TUBE CATHODIQUE ET METHODE DE FABRICATION CONNEXE**  
[72] HAN, Dong-hee, KR  
[72] HAN, Seung-kwon, KR  
[72] MOON, Sung-hwan, KR  
[71] SAMSUNG DISPLAY DEVICES CO., LTD., KR  
[22] 1999-01-21  
[43] 1999-07-22  
[30] KR (98-1853) 1998-01-22

---

Canadian Laid-Open Applications  
July 18, 1999 - July 24, 1999

---

[21] **2,259,844**  
[13] A1  
[51] **Int.Cl. 6A63G 31/00 6D03D 1/00 6A47D 13/06**  
[25] EN  
[54] **METHOD OF USING BARRIER MATERIAL AND SYSTEM**  
[54] **METHODE D'UTILISATION DE SYSTEME ET DE MATERIAU BARRIERE**  
[72] REXROAD, John, US  
[71] REXROAD, John, US  
[22] 1999-01-21  
[43] 1999-07-22  
[30] US (09/012,472) 1998-01-22

---

[21] **2,259,846**  
[13] A1  
[51] **Int.Cl. 6H01L 21/447**  
[25] EN  
[54] **PRESS CONTACT TYPE SEMICONDUCTOR DEVICE, AND CONVERTER USING SAME**  
[54] **DISPOSITIF A SEMICONDUCTEUR DE TYPE A CONTACT PAR PRESSION ET CONVERTISSEUR UTILISANT CE DISPOSITIF**  
[72] SAWAHATA, Mamoru, JP  
[72] KODAMA, Hironori, JP  
[72] KATOU, Mitsuo, JP  
[71] HITACHI, LTD., JP  
[22] 1999-01-21  
[43] 1999-07-22  
[30] JP (10-10118) 1998-01-22  
[30] JP (10-104344) 1998-04-15  
[30] JP (10-227847) 1998-08-12

---

[21] **2,259,848**  
[13] A1  
[51] **Int.Cl. 6C08J 5/08 6D02G 3/02**  
[25] EN  
[54] **GLASS FIBER CORD FOR REINFORCING A RUBBER**  
[54] **CABLE DE FIBRE DE VERRE POUR RENFORCER LE CAOUTCHOUC**  
[72] AKIYAMA, Mitsuharu, JP  
[71] NIPPON GLASS FIBER CO., LTD., JP  
[22] 1999-01-21  
[43] 1999-07-23  
[30] JP (10-11299) 1998-01-23

---

[21] **2,259,854**  
[13] A1  
[51] **Int.Cl. 6B63H 20/12**  
[25] EN  
[54] **TWIN OUTBOARD MOTOR HYDRAULIC STEERING SYSTEM**  
[54] **SYSTEME DE DIRECTION HYDRAULIQUE DE MOTEUR HORS-BORD DOUBLE**  
[72] FETCHKO, Eric, CA  
[72] TROUSIL, Dana, CA  
[72] McFADYEN, Andrew, CA  
[71] TELEFLEX (CANADA) LIMITED, CA  
[22] 1999-01-22  
[43] 1999-07-23  
[30] US (09/012,796) 1998-01-23

---

[21] **2,259,855**  
[13] A1  
[51] **Int.Cl. 6G05D 3/18 6D21F 7/00**  
[25] EN  
[54] **METHOD OF POSITIONING AN ACTUATOR**  
[54] **METHODE DE POSITIONNEMENT DE VERIN**  
[72] SAUNISTO, Kimmo, FI  
[72] SORSA, Jukka, FI  
[72] SANAKSENAHO, Juha, FI  
[71] VALMET AUTOMATION INC., FI  
[22] 1999-01-22  
[43] 1999-07-23  
[30] FI (980151) 1998-01-23

---

[21] **2,259,856**  
[13] A1  
[51] **Int.Cl. 6G01D 5/244 6D21F 7/00**  
[25] EN  
[54] **METHOD AND APPARATUS FOR DEFINING THE POSITION OF AN ACTUATOR**  
[54] **METHODE ET APPAREIL POUR DEFINIR LA POSITION D'UN VERIN**  
[72] SANAKSENAHO, Juha, FI  
[72] SAUNISTO, Kimmo, FI  
[72] SORSA, Jukka, FI  
[71] VALMET AUTOMATION INC., FI  
[22] 1999-01-22  
[43] 1999-07-23  
[30] FI (980152) 1998-01-23

---

[21] **2,259,857**  
[13] A1  
[51] **Int.Cl. 6F27D 7/02 6F25J 3/04**  
[25] EN  
[54] **COMBINED PLANT OF A FURNACE AND AN AIR DISTILLATION DEVICE, AND IMPLEMENTATION PROCESS**  
[54] **INSTALLATION COMBINEE COMPRENANT UN FOUR ET UN DISPOSITIF DE DISTILLATION D'AIR, ET PROCESSUS DE MISE EN OEUVRE**  
[72] GUILLARD, Alain, FR  
[72] BIANCHI, Oswaldo, FR  
[71] L' AIR LIQUIDE, SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCED, FR  
[22] 1999-01-22  
[43] 1999-07-23  
[30] FR (98 00724) 1998-01-23

---

[21] **2,259,858**  
[13] A1  
[51] **Int.Cl. 6B60R 1/06**  
[25] EN  
[54] **DEVICE OF TILTING AND STABILIZATION OF EXTERNAL REAR-VIEW MIRROR**  
[54] **DISPOSITIF DE REGLAGE ET DE STABILISATION DE RETROVISEUR EXTERIEUR**  
[72] MORENO, Ricardo Poveda, BR  
[72] MILANI, Paulo Roberto, BR  
[72] ANZE, Fabio Koiti, BR  
[71] METAGAL INDUSTRIA E COMERCIO LTDA., BR  
[22] 1999-01-22  
[43] 1999-07-22  
[30] BR (PI 9802655-0) 1998-01-22

---

[21] **2,259,859**  
[13] A1  
[51] **Int.Cl. 6G05D 3/18 6D21F 7/00**  
[25] EN  
[54] **ACTUATOR OF A PAPER OR BOARD MACHINE**  
[54] **VERIN DE MACHINE A PAPIER OU A CARTON**  
[72] SANAKSENAHO, Juha, FI  
[72] SAUNISTO, Kimmo, FI  
[72] SORSA, Jukka, FI  
[71] VALMET AUTOMATION INC., FI  
[22] 1999-01-22  
[43] 1999-07-23  
[30] FI (980153) 1998-01-23

**Demandes canadiennes mises à la disponibilité du public**  
**18 juillet 1999 - 24 juillet 1999**

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[21] **2,259,863**  
[13] A1

[51] **Int.Cl. 6F04D 1/14**  
[25] EN  
[54] **OPEN BOWL FOR A VERTICAL TURBINE PUMP**  
[54] **CUVETTE OUVERTE POUR POMPE A TURBINE VERTICALE**  
[72] MARTINS, Victor K., BR  
[72] SCHIAVELLO, Bruno, US  
[72] CRONIN, Richard J., US  
[71] INGERSOLL-DRESSER PUMP COMPANY, US  
[22] 1999-01-21  
[43] 1999-07-23  
[30] US (09/012,355) 1998-01-23

---

[21] **2,259,867**  
[13] A1

[51] **Int.Cl. 6H04L 12/56**  
[25] EN  
[54] **HEADER PROCESSING DEVICE AND HEADER PROCESSING METHOD**  
[54] **DISPOSITIF ET METHODE DE TRAITEMENT DES EN-TETES**  
[72] MURASE, Tutomu, JP  
[72] KOBAYASHI, Masayoshi, JP  
[71] NEC CORPORATION, JP  
[22] 1999-01-22  
[43] 1999-07-23  
[30] JP (011437/1998) 1998-01-23

---

[21] **2,259,874**  
[13] A1

[51] **Int.Cl. 6E01F 9/04**  
[25] EN  
[54] **A DEVICE FOR ROAD PROTECTION AND METHOD OF OBTAINING SUCH A DEVICE**  
[54] **DISPOSITIF DE PROTECTION ROUTIERE ET METHODE DE REALISATION DE CE DISPOSITIF**  
[72] PEYRARD, Didier, FR  
[71] COLAS, FR  
[22] 1999-01-22  
[43] 1999-07-23  
[30] FR (98 00739) 1998-01-23

---

[21] **2,259,864**  
[13] A1

[51] **Int.Cl. 6E04D 3/24**  
[25] EN  
[54] **ROOF PANEL CONSTRUCTION AND METHOD OF MAKING SAME**  
[54] **CONSTRUCTION ET METHODE DE FABRICATION DE PANNEAUX DE TOITURE**  
[72] MUELLER, George B., US  
[71] MUELLER, George B., US  
[22] 1999-01-21  
[43] 1999-07-22  
[30] US (09/010,628) 1998-01-22

---

[21] **2,259,868**  
[13] A1

[51] **Int.Cl. 6B01D 71/02**  
[25] FR  
[54] **INSTALLATION ET PROCEDE DE FILTRATION EN PHASE LIQUIDE D'UN FLUIDE CRYOGENIQUE**  
[54] **SYSTEM AND PROCESS FOR LIQUID-PHASE FILTRATION OF A CRYOGENIC LIQUID**  
[72] GERMAIN, Jean-Pierre, FR  
[72] BUIL, José, FR  
[72] GUILLAUME, Philippe, FR  
[71] L' AIR LIQUIDE, SOCIÉTÉ ANONYME POUR L'ÉTUDE ET L'EXPLOITATION DES PROCÉD, FR  
[22] 1999-01-19  
[43] 1999-07-23  
[30] FR (98/00725) 1998-01-23

---

[21] **2,259,876**  
[13] A1

[51] **Int.Cl. 6G02B 5/18**  
[25] EN  
[54] **LIGHT WAVE DIFFRACTION DEVICE**  
[54] **DISPOSITIF DE DIFFRACTION D'ONDES LUMINEUSES**  
[72] TISHCHENKO, Alexandre V., RU  
[72] SYCHUGOV, Vladimir A., RU  
[72] PARRIAUX, Olivier M., FR  
[71] PARRIAUX, Olivier M., FR  
[22] 1999-01-22  
[43] 1999-07-23  
[30] EP (98011221.4) 1998-01-23

---

[21] **2,259,866**  
[13] A1

[51] **Int.Cl. 6F24C 3/12 6F24C 15/32**  
[25] EN  
[54] **ADAPTER FOR A VENTLESS FIREPLACE**  
[54] **ADAPTATEUR POUR FOYER SANS CHEMINEE**  
[72] KELLY, John R., US  
[72] BARUDI, Samir E., US  
[72] MITCHELL, Roger Duke, US  
[71] SUPERIOR FIREPLACE COMPANY, US  
[22] 1999-01-22  
[43] 1999-07-22  
[30] US (60/072,206) 1998-01-22

---

[21] **2,259,870**  
[13] A1

[51] **Int.Cl. 6H04Q 7/00 6H04Q 9/00**  
[25] FR  
[54] **PROCEDE DE COMMUNICATION D'INFORMATIONS ET APPLICATION DE CE PROCEDE A UN SYSTEME DE TELERELEVÉ DE COMPTEURS**  
[54] **INFORMATION COMMUNICATION PROCESS AND APPLICATION OF THE SAID PROCESS TO A SYSTEM FOR THE REMOTE READING OF METERS**  
[72] GODLEWSKI, Philippe, FR  
[72] MOREAU, Patrick, FR  
[72] MULLER, Marc, FR  
[71] SCHLUMBERGER INDUSTRIES S.A., FR  
[22] 1999-01-20  
[43] 1999-07-21  
[30] FR (9800591) 1998-01-21

---

[21] **2,259,879**  
[13] A1

[51] **Int.Cl. 6B23C 5/20**  
[25] EN  
[54] **BALL NOSE CUTTING TOOL WITH CENTER MOUNTED TOOL BITS**  
[54] **OUTIL DE COUPE ~ BOUT SPHERIQUE AVEC OUTILS RAPPORTES MONTES AU CENTRE**  
[72] LEMKE, Carl, US  
[71] LEMKE, Carl, US  
[22] 1999-01-22  
[43] 1999-07-23  
[30] US (09/012,318) 1998-01-23

---

[21] **2,259,880**  
[13] A1

[51] **Int.Cl. 6H01Q 1/27 6H01Q 1/00**  
[25] EN  
[54] **BROADCAST COUPLER**  
[54] **COUPLEUR DE RADIODIFFUSION**  
[72] STENGEL, Francis A., Jr., US  
[71] STI-CO INDUSTRIES, INC., US  
[22] 1999-01-22  
[43] 1999-07-23  
[30] US (60/072,254) 1998-01-23

Canadian Laid-Open Applications  
July 18, 1999 - July 24, 1999

---

[21] **2,259,881**  
[13] A1  
[51] **Int.Cl. 6B65D 23/10**  
[25] EN  
[54] **CONTAINER WITH INTEGRAL ERGONOMIC HANDLE**  
[54] **CONTENANT AVEC POIGNEE ERGONOMIQUE INTEGREE**  
[72] VAN DYK, Thomas, US  
[72] KRISTIANSEN, Keith, US  
[72] MEISNER, Edward H., US  
[72] CHARRIEZ, Roland, US  
[71] GREAT SPRING WATERS OF AMERICA, INC., US  
[22] 1999-01-22  
[43] 1999-07-23  
[30] US (09/012,797) 1998-01-23

---

[21] **2,259,883**  
[13] A1  
[51] **Int.Cl. 6F16J 13/12 6F16L 55/00 6F16J 15/06 6G01F 15/18**  
[25] EN  
[54] **SEALING ASSEMBLY AND METHOD**  
[54] **ENSEMBLE D'ETANCHEITE ET METHODE**  
[72] CARTER, Anthony E., US  
[71] DANIEL INDUSTRIES, INC., US  
[22] 1999-01-22  
[43] 1999-07-23  
[30] US (09/012,751) 1998-01-23

---

[21] **2,259,884**  
[13] A1  
[51] **Int.Cl. 6C09J 191/06 6C09J 131/04 6C09J 127/06 6C09K 3/10**  
[25] EN  
[54] **A SELF-LEVELLING PLASTISOL COMPOSITION AND METHOD FOR USING SAME**  
[54] **COMPOSITION DE PLASTISOL AUTOLISSANTE ET METHODE D'UTILISATION**  
[72] RINKA, Richard A., US  
[72] HUBERT, James F., US  
[71] HENKEL CORPORATION, US  
[22] 1999-01-22  
[43] 1999-07-23  
[30] US (60/072,236) 1998-01-23  
[30] US (09/224,919) 1999-01-04

---

[21] **2,259,891**  
[13] A1  
[51] **Int.Cl. 6B63H 20/12**  
[25] EN  
[54] **OUTBOARD HYDRAULIC STEERING ASSEMBLY WITH REDUCED SUPPORT BRACKET ROTATION**  
[54] **ENSEMBLE DE DIRECTION HYDRAULIQUE DE HORS-BORD AVEC ROTATION DE FERRURE SUPPORT REDUITE**  
[72] FETCHKO, Eric, CA  
[72] McFADYEN, Andrew, CA  
[71] TELEFLEX (CANADA) LIMITED, CA  
[22] 1999-01-22  
[43] 1999-07-23  
[30] US (09/012,793) 1998-01-23

---

[21] **2,259,920**  
[13] A1  
[51] **Int.Cl. 6B65G 47/90 6B65G 61/00**  
[25] EN  
[54] **TRANSFER APPARATUS FOR A PLURALITY OF OBJECTS**  
[54] **APPAREIL DE TRANSFERT POUR PLUSIEURS OBJETS**  
[72] MICHELS, Frank, DE  
[72] VERMEULEN, Norbert, DE  
[72] HANNEN, Reiner, DE  
[71] MSK-VERPACKUNGS-SYSTEME GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, DE  
[22] 1999-01-22  
[43] 1999-07-24  
[30] DE (298 01 158.1) 1998-01-24

---

[21] **2,260,087**  
[13] A1  
[51] **Int.Cl. 6E21B 43/116**  
[25] EN  
[54] **METHOD AND APPARATUS FOR CREATING LEAK-TESTED PERFORATING GUN ASSEMBLIES**  
[54] **METHODE ET APPAREIL POUR FABRIQUER DES ASSEMBLAGES DE CANON DE PERFORATION ETANCHES**  
[72] BURLESON, John D., US  
[72] HENKE, Joseph A., US  
[72] GEORGE, Flint R., US  
[72] MASON, Justin L., US  
[71] HALLIBURTON ENERGY SERVICES, INC., US  
[22] 1999-01-19  
[43] 1999-07-20  
[30] US (09/008,919) 1998-01-20

---

[21] **2,260,102**  
[13] A1  
[51] **Int.Cl. 6A63B 67/18**  
[25] EN  
[54] **ADJUSTABLY WEIGHTED SHUTTLECOCK**  
[54] **VOLANT A LESTAGE REGLABLE**  
[72] SKLAR, Allan, CA  
[71] SKLAR, Allan, CA  
[22] 1999-01-19  
[43] 1999-07-23  
[30] US (09/012,351) 1998-01-23

---

[21] **2,260,115**  
[13] A1  
[51] **Int.Cl. 6D21F 3/04**  
[25] EN  
[54] **PRESS SECTION AND PROCESS FOR GUIDING A FIBER MATERIAL WEB THROUGH THE PRESS SECTION**  
[54] **SECTION DE PRESSION ET METHODE DE GUIDAGE D'UNE VOILE DE CARDE A TRAVERS LA SECTION DE PRESSION**  
[72] MAYER, Wolfgang, DE  
[71] VOITH SULZER PAPIERTECHNIK PATENT GMBH, DE  
[22] 1999-01-19  
[43] 1999-07-20  
[30] DE (198 01 891.6) 1998-01-20

---

[21] **2,260,117**  
[13] A1  
[51] **Int.Cl. 6H02G 3/22 6H01B 7/00 6H01J 61/02**  
[25] EN  
[54] **A HIGH VOLTAGE WIRING SYSTEM FOR NEON LIGHTS**  
[54] **SYSTEME DE CABLAGE HAUTE TENSION POUR LAMPES AU NEON**  
[72] RUMSEY, Roger L., US  
[71] RELIGHT AMERICA, INC., US  
[22] 1999-01-19  
[43] 1999-07-20  
[30] US (09/009,168) 1998-01-20

---

[21] **2,260,154**  
[13] A1  
[51] **Int.Cl. 6A42B 3/00 6A42B 3/20**  
[25] EN  
[54] **CATCHER'S HELMET**  
[54] **CASQUE DE RECEVEUR**  
[72] DICKIE, William D., US  
[71] DICKIE, William D., US  
[22] 1999-01-21  
[43] 1999-07-21  
[30] US (09/010,462) 1998-01-21

**Demandes canadiennes mises à la disponibilité du public**  
**18 juillet 1999 - 24 juillet 1999**

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[21] **2,260,164**  
[13] A1

[51] **Int.Cl. 6A61B 17/062**  
[25] EN  
[54] **A NEEDLE HOLDER TO ASSIST IN SUTURING**  
[54] **PORTE-AIGUILLE POUR FACILITER LES SUTURES**  
[72] SWAYZE, Jeffrey S., US  
[72] PAPA, Christopher A., US  
[71] ETHICON, ENDO-SURGERY, INC., US  
[22] 1999-01-21  
[43] 1999-07-23  
[30] US (09/012,875) 1998-01-23

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[21] **2,260,168**  
[13] A1

[51] **Int.Cl. 6C10M 157/10 6C10M 145/12 6C10L 1/18**  
[25] EN  
[54] **PROCESS FOR IMPROVING THE COLD-FLOW PROPERTIES OF FUEL OILS**  
[54] **PROCEDE POUR AMELIORER LES PROPRIETES D'ECOULEMENT A FROID DE MAZOUTS**  
[72] REIMANN, Werner, DE  
[72] KRULL, Matthias, DE  
[71] CLARIANT GMBH, DE  
[22] 1999-01-22  
[43] 1999-07-24  
[30] DE (198 02 689.7) 1998-01-24

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[21] **2,260,169**  
[13] A1

[51] **Int.Cl. 6C10M 157/10 6C10M 145/12 6C10L 1/18**  
[25] EN  
[54] **PROCESS FOR IMPROVING THE COLD-FLOW PROPERTIES OF FUEL OILS**  
[54] **PROCEDE POUR AMELIORER LES PROPRIETES D'ECOULEMENT A FROID DE MAZOUTS**  
[72] KRULL, Matthias, DE  
[72] REIMANN, Werner, DE  
[71] CLARIANT GMBH, DE  
[22] 1999-01-22  
[43] 1999-07-24  
[30] DE (198 02 690.0) 1998-01-24

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[21] **2,260,176**  
[13] A1

[51] **Int.Cl. 6E21B 10/46 6E21B 10/08 6B23P 15/28**  
[25] EN  
[54] **HARDFACING ROCK BIT CONES FOR EROSION PROTECTION**  
[54] **METHODE DE RECHARGEMENT DUR DE TREPANS TRICONES POUR LA PROTECTION CONTRE L'EROSION**  
[72] DIDERICKEN, Roger, US  
[72] SLAUGHTER, Robert, US  
[71] SMITH INTERNATIONAL, INC., US  
[22] 1999-01-22  
[43] 1999-07-23  
[30] US (60/072,276) 1998-01-23

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[21] **2,260,206**  
[13] A1

[51] **Int.Cl. 6A47B 67/02**  
[25] EN  
[54] **TWO-STEPPED CABINET**  
[54] **MEUBLE A DEUX PARTIES**  
[72] KATZ, Howard S., US  
[71] ROBERN, INC., US  
[22] 1999-01-21  
[43] 1999-07-22  
[30] US (09/012,058) 1998-01-22

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[21] **2,260,331**  
[13] A1

[51] **Int.Cl. 6E01F 7/02**  
[25] EN  
[54] **SAFETY NET SYSTEM FOR DEBRIS AND MUD SLIDES**  
[54] **FILET DE SECURITE POUR GLISSEMENTS DE DEBRIS ET DE BOUE**  
[72] THOMMEN, Robert A., Jr., US  
[71] BRUGG CABLE PRODUCTS, INC., US  
[22] 1999-01-25  
[43] 1999-07-23  
[30] US (09/012,781) 1998-01-23

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[21] **2,260,348**  
[13] A1

[51] **Int.Cl. 6G06F 17/60**  
[25] EN  
[54] **A METHOD AND APPARATUS FOR GENERATING SEGMENTATION SCORECARDS FOR EVALUATING CREDIT RISK OF BANK CARD APPLICANTS**  
[54] **METHODE ET APPAREIL DE PRODUCTION DE TABLES DE POINTAGE DE SEGMENTATION POUR EVALUER LE RISQUE DE CREDIT DES DEMANDEURS DE CARTES BANCAIRES**  
[72] CHRISTIANSEN, James, US  
[72] KOLHATKAR, Jayashree S., US  
[72] SRINIVASAN, Krishnakumar, US  
[72] FATNANI, Sangita, US  
[71] FIRST USA BANK, US  
[22] 1999-01-25  
[43] 1999-07-23  
[30] US (09/012,231) 1998-01-23

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[21] **2,260,402**  
[13] A1

[51] **Int.Cl. 6G09F 5/00**  
[25] EN  
[54] **DISPLAY CARD**  
[54] **CARTE-PRESENTOIR**  
[72] BOISVERT, Pierre, CA  
[71] BOISVERT, Pierre, CA  
[22] 1999-01-22  
[43] 1999-07-22  
[30] US (60/072,131) 1998-01-22

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[21] **2,269,190**  
[13] A1

[51] **Int.Cl. 6B25B 7/00**  
[25] EN  
[54] **IMPROVED AUTO-ADJUSTING PLIERS**  
[54] **PINCES AUTO-REGLABLES AMELIOREES**  
[72] KHACHATOORIAN, Zareh, US  
[71] OLYMPIA INDUSTRIAL, INC., US  
[22] 1999-04-29  
[43] 1999-07-18  
[30] US (09/104,823) 1998-06-25

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**Canadian Laid-Open Applications**  
**July 18, 1999 - July 24, 1999**

# PCT Applications Entering the National Phase

## Demandes PCT entrant en phase nationale

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[21] **2,263,576**  
[13] A1  
[51] **Int.Cl. 6F01D 9/02 6F01D 5/18**  
[25] EN  
[54] **STATIONARY BLADE OF GAS TURBINE**  
[54] **AUBE FIXE DE TURBINE A GAZ**  
[72] SUENAGA, Kiyoshi, JP  
[72] UEMATSU, Kazuo, JP  
[71] MITSUBISHI HEAVY INDUSTRIES, LTD., JP  
[85] 1999-02-10  
[86] 1998-01-20 (PCT/JP98/00184)  
[87] 1999-07-20 ()

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[21] **2,267,166**  
[13] A1  
[51] **Int.Cl. 6F16D 69/02 6D04H 18/00 6C04B 35/83**  
[25] EN  
[54] **PREPARATION OF TEXTILE PREFORMS FOR BRAKE DISCS IN COMPOSITE MATERIAL**  
[54] **PREPARATION DE PREFORME EN TEXTILE POUR DES FREINS A DISQUES A MATERIAU COMPOSITE**  
[72] DUVAL, Renaud, FR  
[72] LHERM, Eric, FR  
[71] MESSIER-BUGATTI, FR  
[85] 1999-03-29  
[86] 1996-11-29 (PCT/FR96/01898)  
[87] 1998-04-09 (WO98/14716)  
[30] FR (96 11873) 1996-09-30

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[21] **2,267,431**  
[13] A1  
[51] **Int.Cl. 6G02B 21/00 6G02B 21/04**  
[25] EN  
[54] **MICROSCOPE WITH ADAPTIVE OPTICS**  
[54] **MICROSCOPE AVEC OPTIQUE ADAPTIF**  
[72] GRUB, Robert, DE  
[72] SIMON, Ulrich, DE  
[72] WOLLESCHENSKY, Ralf, DE  
[72] GLUCH, Martin, DE  
[72] VOLCKER, Martin, DE  
[72] FAULSTICH, Andreas, DE  
[71] CARL ZEISS JENA GMBH, DE  
[85] 1999-03-31  
[86] 1998-07-31 (PCT/EP98/04801)  
[87] 1999-02-01 ()  
[30] DE (197 33 193.9) 1997-08-01

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[21] **2,270,466**  
[13] A1  
[51] **Int.Cl. 6G06F 17/30 6H04L 29/02 6G06F 13/14 6G06F 13/38**  
[25] EN  
[54] **CORPORATE INFORMATION COMMUNICATION AND DELIVERY SYSTEM AND METHOD INCLUDING ENTITLABLE HYPERTEXT LINKS**  
[54] **SYSTEME ET PROCEDE DE COMMUNICATIONS ET DE PRESTATION D'INFORMATIONS D'ENTREPRISES COMPORTANT DES LIAISONS HYPERTEXTES AUXQUELLES DES TITRES PEUVENT ETRE DONNES**  
[72] BLAZEK, Paul, US  
[72] MACCARTHY Mary Ellen, US  
[72] KARAEV, Isaak, US  
[72] BAIRD, George, US  
[72] MAHONEY, John J., US  
[72] TOUSIGNANT, James M., US  
[71] MULTEX SYSTEMS, INC., US  
[85] 1999-04-29  
[86] 1997-10-28 (PCT/US97/19568)  
[87] 1998-05-07 (WO98/19417)  
[30] US (08/739,377) 1996-10-29

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[21] **2,272,068**  
[13] A1  
[51] **Int.Cl. 6C07D 471/04 6A61K 31/435**  
[25] EN  
[54] **NOVEL NAPHTHYRIDINE DERIVATIVES**  
[54] **NOUVEAUX DERIVES DE NAPHTHYRIDINE**  
[72] YAGI, Hideki, JP  
[72] MURAOKA, Masami, JP  
[72] IORIYA, Katsuhisa, JP  
[72] OHASHI, Naohito, JP  
[71] SUMITOMO PHARMACEUTICALS COMPANY, LIMITED, JP  
[85] 1999-05-17  
[86] 1997-11-25 (PCT/JP97/04276)  
[87] 1998-06-04 (WO98/23615)  
[30] JP (8/331523) 1996-11-26

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[21] **2,272,347**  
[13] A1  
[51] **Int.Cl. 6E04B 2/08 6E04B 2/18 6E04B 2/32 6E04B 2/46**  
[25] EN  
[54] **BASIC BUILDING BLOCKS FOR CONSTRUCTING COMPLEX BUILDING STRUCTURES**  
[54] **BRIQUES DE BASE POUR LA CONSTRUCTION DE STRUCTURES COMPLEXES**  
[72] BARTON, William M., Jr., US  
[72] POGUE, Lonnie, US  
[71] ROKENBOK TOY COMPANY, US  
[85] 1999-05-19  
[86] 1997-11-06 (PCT/US97/19927)  
[87] 1998-05-28 (WO98/22672)  
[30] US (08/752,213) 1996-11-19



## PCT Applications Entering the National Phase

<p style="text-align: right;">[21] <b>2,272,348</b> [13] A1</p> <p>[51] <b>Int.Cl. 6A61M 1/36</b> [25] EN [54] <b>INTEGRATED CASSETTE FOR CONTROLLING FLUID HAVING AN INTEGRAL FILTER</b> [54] <b>CASSETTE INTEGREE DE REGULATION DE FLUIDES COMPORTANT UN FILTRE INTEGRE</b> [72] MORRIS, Livingston B., US [71] THERAKOS, INC., US [85] 1999-05-19 [86] 1997-11-21 (PCT/US97/21656) [87] 1998-05-28 (WO98/22165) [30] US (60/031,907) 1996-11-22</p>	<p style="text-align: right;">[21] <b>2,272,634</b> [13] A1</p> <p>[51] <b>Int.Cl. 6A61K 7/48 6A61K 7/06</b> [25] EN [54] <b>COSMETIC COMPOSITIONS</b> [54] <b>COMPOSITIONS COSMETIQUES</b> [72] BELL, Michael David, GB [72] SUMIYOSHI, Tohru, JP [72] SUGINAKA, Yasuko, JP [72] NAWAZ, Zahid, GB [71] THE PROCTER &amp; GAMBLE COMPANY, US [85] 1999-05-21 [86] 1997-11-21 (PCT/US97/21470) [87] 1998-05-28 (WO98/22075) [30] GB (9624305.0) 1996-11-22 [30] GB (9710697.5) 1997-05-23</p>	<p style="text-align: right;">[21] <b>2,272,637</b> [13] A1</p> <p>[51] <b>Int.Cl. 6C12N 15/86 6A61K 48/00</b> [25] FR [54] <b>COMPOSITION TRANSFECTANTE UTILE EN THERAPIE GENIQUE ASSOCIANT A UN VIRUS RECOMBINANT INCORPORANT UN ACIDE NUCLEIQUE EXOGENE, UN AGENT DE TRANSFECTION NON VIRAL ET NON PLASMIDIQUE</b> [54] <b>TRANSFECTING COMPOSITION USABLE IN GENE THERAPY COMBINING A RECOMBINANT VIRUS INCORPORATING AN EXOGENOUS NUCLEIC ACID, A NON-VIRAL AND NON-PLASMID TRANSFECTING AGENT</b> [72] LE ROUX, Aude, FR [72] RATET, Nathalie, FR [72] AUBAILLY, Nathalie, FR [72] BRANELLEC, Didier, FR [72] MAHFOUDI, Abderrahim, FR [72] BENOIT, Patrick, FR [71] RHONE-POULENC RORER S.A., FR [85] 1999-05-21 [86] 1997-11-28 (PCT/FR97/02157) [87] 1998-06-04 (WO98/23765) [30] FR (9614693) 1996-11-29</p>
<p style="text-align: right;">[21] <b>2,272,632</b> [13] A1</p> <p>[51] <b>Int.Cl. 6A61K 39/00 6A61K 38/00 6A61K 49/00 6C07K 5/00 6C07K 14/00 6A01N 37/18 6A61K 47/36 6A61K 47/42</b> [25] EN [54] <b>PEPTIDES WHICH MIMIC CANDIDA CARBOHYDRATE EPITOPES AND THEIR USE IN A VACCINE</b> [54] <b>PEPTIDES IMITANT DES EPITOPES D'HYDRATES DE CARBONE DE CANDIDA ET LEUR UTILISATION DANS UN VACCIN</b> [72] HAN, Yongmoon, US [72] CUTLER, Jim E., US [72] GRANGER, Bruce L., US [72] GLEE, Pati, US [71] THE RESEARCH AND DEVELOPMENT INSTITUTE, INC., US [85] 1999-05-20 [86] 1997-11-25 (PCT/US97/21661) [87] 1998-06-04 (WO98/23287) [30] US (08/756,014) 1996-11-25 [30] US (60/045,030) 1997-04-28</p>	<p style="text-align: right;">[21] <b>2,272,635</b> [13] A1</p> <p>[51] <b>Int.Cl. 6A61C 17/20 6A61C 1/00</b> [25] EN [54] <b>DENTAL SCALER</b> [54] <b>INSTRUMENT POUR DETARTRE LES DENTS</b> [72] HAYNES, Ronald W., US [72] YOUNG, Elbert L., Jr., US [72] SALE, David William, US [71] PROFESSIONAL DENTAL TECHNOLOGIES, INC., US [85] 1999-05-21 [86] 1997-11-26 (PCT/US97/21893) [87] 1998-06-04 (WO98/23222) [30] US (60/031,928) 1996-11-27 [30] US (08/977,592) 1997-11-25</p>	<p style="text-align: right;">[21] <b>2,272,640</b> [13] A1</p> <p>[51] <b>Int.Cl. 6C07D 235/06 6C07D 215/38 6A61K 31/395 6C07D 277/62</b> [25] EN [54] <b>GUANIDINYL HETEROCYCLE COMPOUNDS USEFUL AS ALPHA-2 ADRENOCEPTOR AGONISTS</b> [54] <b>COMPOSES GUANIDINYL HETEROCYCLES CONVENANT COMME AGONISTES DE L'ADRENORECEPTEUR ALPHA-2</b> [72] ARES, Jeffrey Joseph, US [72] HENRY, Raymond Todd, US [72] CUPPS, Thomas Lee, US [72] BOGDAN, Sophie Eva, US [72] SEIBEL, William Lee, US [72] SHELDON, Russell James, US [71] THE PROCTER &amp; GAMBLE COMPANY, US [85] 1999-05-20 [86] 1997-11-21 (PCT/US97/20802) [87] 1998-06-04 (WO98/23596) [30] US (60/032,023) 1996-11-25</p>
<p style="text-align: right;">[21] <b>2,272,633</b> [13] A1</p> <p>[51] <b>Int.Cl. 6C08L 1/26 6A61K 9/48</b> [25] EN [54] <b>POLYMER FILM COMPOSITIONS FOR CAPSULES</b> [54] <b>COMPOSITIONS DE FILM POLYMERE POUR GELULES</b> [72] SCOTT, Robert Anthony, BE [72] HE, Xiongwei, FR [72] CADE, Dominique, FR [71] WARNER-LAMBERT COMPANY, US [85] 1999-05-20 [86] 1997-12-05 (PCT/US97/22177) [87] 1998-06-25 (WO98/27151) [30] FR (96/15580) 1996-12-17</p>	<p style="text-align: right;">[21] <b>2,272,636</b> [13] A1</p> <p>[51] <b>Int.Cl. 6G01N 33/28 6G01N 33/00 6G01N 33/30</b> [25] EN [54] <b>CHARACTERIZATION OF FLUID MISTING</b> [54] <b>CARACTERISATION DE LA FORMATION DE BROUILLARDS A PARTIR DE FLUIDES</b> [72] TURCHIN, Henry, US [72] ROLFERT, Edward H., US [71] MILACRON INC., US [85] 1999-05-21 [86] 1998-10-29 (PCT/US98/22880) [87] 1999-05-14 (WO99/23488) [30] US (08/962,549) 1997-10-31</p>	

## Demandes PCT entrant en phase nationale

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[21] **2,272,642**  
[13] A1  
[51] **Int.Cl. 6C11D 17/00 6C11D 11/00**  
[25] EN  
[54] **COATED DETERGENT TABLET**  
[54] **DETERGENT EN TABLETTE A ENROBAGE**  
[72] VAN DIJK, Paul Irma Albertus, BE  
[71] THE PROCTER & GAMBLE COMPANY, US  
[85] 1999-05-20  
[86] 1997-11-19 (PCT/US97/21042)  
[87] 1998-06-11 (WO98/24874)  
[30] EP (96203464.1) 1996-12-06

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[21] **2,272,644**  
[13] A1  
[51] **Int.Cl. 6C07D 403/12 6A61K 31/415**  
[25] EN  
[54] **2-IMIDAZOLINYLAMINOINDAZOLE COMPOUNDS USEFUL AS ALPHA-2 ADRENOCEPTOR AGONISTS**  
[54] **COMPOSES 2-IMIDAZOLINYLAMINO-INDAZOLE UTILES EN TANT QU'AGONISTES DE L'ADRENORECEPTEUR ALPHA-2**  
[72] CUPPS, Thomas Lee, US  
[72] SEIBEL, William Lee, US  
[72] HENRY, Raymond Todd, US  
[72] BOGDAN, Sophie Eva, US  
[72] SHELDON, Russell James, US  
[72] ARES, Jeffrey Joseph, US  
[71] THE PROCTER & GAMBLE COMPANY, US  
[85] 1999-05-20  
[86] 1997-11-21 (PCT/US97/20551)  
[87] 1998-06-04 (WO98/23609)  
[30] US (60/031,740) 1996-11-25

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[21] **2,272,646**  
[13] A1  
[51] **Int.Cl. 6B32B 7/06 6B32B 27/08 6B65D 77/20 6B65D 81/20**  
[25] EN  
[54] **LAMINATE HAVING A COEXTRUDED, MULTILAYER FILM WHICH DELAMINATES AND PACKAGE MADE THEREFROM**  
[54] **STRATIFIE COMPORTANT UN FILM MULTICOUCHE, COEXTRUDE, DONT LES COUCHES SE DECOLLENT ET EMBALLAGE FABRIQUE A PARTIR DUDIT STRATIFIE**  
[72] KOCHER, Patrick N., US  
[72] STOCKLEY, Walker H., III, US  
[72] MUDAR, Kimberly Ann, US  
[72] MUELLER, Walter B., US  
[71] CRYOVAC, INC., US  
[85] 1999-05-20  
[86] 1997-12-05 (PCT/US97/22294)  
[87] 1998-06-18 (WO98/25760)  
[30] US (08/764,405) 1996-12-11

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[21] **2,272,647**  
[13] A1  
[51] **Int.Cl. 6A61N 1/30**  
[25] EN  
[54] **COMPOUND DELIVERY USING IMPULSE TRANSIENTS**  
[54] **APPORT DE COMPOSES AU MOYEN DE PHENOMENES TRANSITOIRES IMPULSIONNELS**  
[72] McAULIFFE, Daniel J., US  
[72] FLOTTE, Thomas J., US  
[72] LEE, Shun K., US  
[72] KOLLIAS, Nikiforos, US  
[72] DOUKAS, Apostolos G., US  
[71] THE GENERAL HOSPITAL CORPORATION, US  
[85] 1999-05-20  
[86] 1997-11-26 (PCT/US97/22166)  
[87] 1998-06-04 (WO98/23325)  
[30] US (60/031,882) 1996-11-27

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[21] **2,272,649**  
[13] A1  
[51] **Int.Cl. 6G06F 17/00**  
[25] EN  
[54] **WEB SITE COPY PROTECTION SYSTEM AND METHOD**  
[54] **SYSTEME ET PROCEDE D'ANTIPIRATAGE LOGICIEL DES SITES WEB**  
[72] GLOGAU, Jordan J., US  
[71] INTELLECTUAL PROTOCOLS, L.L.C., US  
[85] 1999-05-21  
[86] 1997-11-21 (PCT/US97/21356)  
[87] 1998-06-11 (WO98/25373)  
[30] US (60/031,424) 1996-11-21

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[21] **2,272,650**  
[13] A1  
[51] **Int.Cl. 6B60R 5/00 6B61D 37/00 6B64D 11/00 6B64D 13/00**  
[25] EN  
[54] **RACK UNIT**  
[54] **CASIER A BAGAGES**  
[72] CALNON, Terry, GB  
[71] TRANSMATIC EUROPE LIMITED, GB  
[85] 1999-05-21  
[86] 1998-10-08 (PCT/GB98/03026)  
[87] 1999-04-15 (WO99/17958)  
[30] GB (9721360.7) 1997-10-08

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[21] **2,272,651**  
[13] A1  
[51] **Int.Cl. 6G08B 13/12 6G08B 13/186**  
[25] EN  
[54] **ANTI-INTRUSION APPARATUS, PARTICULARLY FOR PASSAGE OPENINGS, LIKE DOORS, WINDOWS, OR SIMILAR**  
[54] **APPAREIL ANTI-INTRUSION DESTINE EN PARTICULIER A DES OUVERTURES DE PASSAGE TELLES QUE PORTES, FENETRES, OU SIMILAIRES**  
[72] DONI, Roberto, IT  
[72] CIORDINIK, Federico, IT  
[71] DONI, Roberto, IT  
[71] CIORDINIK, Federico, IT  
[85] 1999-05-21  
[86] 1997-11-19 (PCT/EP97/06446)  
[87] 1998-06-04 (WO98/24073)  
[30] IT (SV96A000042) 1996-11-25  
[30] IT (SV97A000030) 1997-06-03

## PCT Applications Entering the National Phase

<p style="text-align: right;">[21] <b>2,272,652</b> [13] A1</p> <p>[51] <b>Int.Cl. 6C08J 9/22 6C08J 9/224 6C08J 9/36 6C08J 9/42</b> [25] EN [54] <b>A PROCESS FOR COATING FOAM</b> [54] <b>PROCEDE D'ENDUISAGE DE MOUSSE</b> [72] SUTHERLAND, Euan, AU [71] COMMERCIAL BUREAU PTY LTD, AU [71] DAR VINCI PTY LTD, AU [85] 1999-05-21 [86] 1997-11-24 (PCT/AU97/00798) [87] 1998-06-04 (WO98/23671) [30] AU (PO 3794) 1996-11-22</p>	<p style="text-align: right;">[21] <b>2,272,655</b> [13] A1</p> <p>[51] <b>Int.Cl. 6A61F 2/06 6A61B 17/00</b> [25] EN [54] <b>ANEURYSM PATCH APPARATUS AND METHOD FOR TREATING AN ANEURYSM</b> [54] <b>DISPOSITIF A PATCH ET PROCEDE DE TRAITEMENT DE L'ANEVRISME</b> [72] MAYNARD, Ronald S., US [71] MICRODOMAIN, INC., US [85] 1999-05-21 [86] 1997-10-29 (PCT/US97/19392) [87] 1998-06-04 (WO98/23227) [30] US (08/756,099) 1996-11-25</p>	<p style="text-align: right;">[21] <b>2,272,658</b> [13] A1</p> <p>[51] <b>Int.Cl. 6H03L 7/087</b> [25] EN [54] <b>SYNCHRONIZATION MEANS OF AN ASSEMBLY</b> [54] [72] QUIRMBACH, Gerhard, DE [71] SIEMENS AKTIENGESELLSCHAFT, DE [85] 1999-05-21 [86] 1997-11-04 (PCT/EP97/06080) [87] 1998-06-04 (WO98/24185) [30] EP (96118915.6) 1996-11-26</p>
<p style="text-align: right;">[21] <b>2,272,653</b> [13] A1</p> <p>[51] <b>Int.Cl. 6H01L 21/768</b> [25] EN [54] <b>LASER BASED METHOD AND SYSTEM FOR INTEGRATED CIRCUIT REPAIR OR RECONFIGURATION</b> [54] <b>PROCEDE ET SYSTEME FONDES SUR L'UTILISATION D'UN LASER POUR LA REPARATION OU LA RECONFIGURATION DE CIRCUITS INTEGRES</b> [72] HARRIS, Richard S., US [72] SWENSON, Edward, US [72] SUN, Yunlong, US [71] ELECTRO SCIENTIFIC INDUSTRIES, INC., US [85] 1999-05-21 [86] 1997-10-29 (PCT/US97/19533) [87] 1998-07-16 (WO98/31049) [30] US (60/034,232) 1997-01-06 [30] US (08/898,555) 1997-07-22</p>	<p style="text-align: right;">[21] <b>2,272,656</b> [13] A1</p> <p>[51] <b>Int.Cl. 6H03H 17/04 6H03H 17/02</b> [25] EN [54] <b>COMB FILTER</b> [54] <b>FILTRE EN PEIGNE</b> [72] DRAXELMAYR, Dieter, AT [71] SIEMENS AKTIENGESELLSCHAFT, DE [85] 1999-05-21 [86] 1998-08-21 (PCT/DE98/02453) [87] 1999-04-01 (WO99/16169) [30] DE (19741922.4) 1997-09-23</p>	<p style="text-align: right;">[21] <b>2,272,681</b> [13] A1</p> <p>[51] <b>Int.Cl. 6H04Q 7/34</b> [25] EN [54] <b>CALL SET-UP PROCESS</b> [54] <b>PROCEDE D'ETABLISSEMENT D'UN APPEL</b> [72] CHOTAL, Sunil, GB [72] CLAPTON, Alan James, GB [71] BRITISH TELECOMMUNICATIONS PUBLIC LIMITED COMPANY, GB [85] 1999-05-26 [86] 1997-11-27 (PCT/GB97/03273) [87] 1998-06-11 (WO98/25426) [30] EP (96308784.6) 1996-12-04</p>
<p style="text-align: right;">[21] <b>2,272,654</b> [13] A1</p> <p>[51] <b>Int.Cl. 6E21B 37/06 6C09K 3/00 6C10L 3/00 6F15D 1/02 6C10L 1/22 6C08F 222/38</b> [25] EN [54] <b>ADDITIVES FOR INHIBITING FORMATION OF GAS HYDRATES</b> [54] <b>ADDITIFS POUR EMPECHER LA FORMATION D'HYDRATES DE GAZ</b> [72] KELLAND, Malcolm, NO [72] KLUG, Peter, DE [71] RF-ROGALAND RESEARCH, NO [71] CLARIANT GMBH, DE [85] 1999-05-21 [86] 1997-11-21 (PCT/EP97/06506) [87] 1998-06-04 (WO98/23843) [30] DE (196 48 415.4) 1996-11-22 [30] NO (97/1390) 1997-03-24 [30] DE (197 25 509.4) 1997-06-17</p>	<p style="text-align: right;">[21] <b>2,272,657</b> [13] A1</p> <p>[51] <b>Int.Cl. 6C07D 239/54 6A01N 43/54 6C07D 239/545</b> [25] EN [54] <b>PHENYL-URACIL DERIVATIVES WITH HERBICIDE EFFECT</b> [54] <b>NOUVEAUX DERIVES DE PHENYLURACYLE A EFFET HERBICIDE</b> [72] ANDREE, Roland, DE [72] DREWES, Mark Wilhelm, DE [72] DOLLINGER, Markus, US [71] BAYER AKTIENGESELLSCHAFT, DE [85] 1999-05-21 [86] 1997-11-14 (PCT/EP97/06367) [87] 1998-06-04 (WO98/23598) [30] DE (196 49 094.4) 1996-11-27</p>	<p style="text-align: right;">[21] <b>2,272,682</b> [13] A1</p> <p>[51] <b>Int.Cl. 6B27B 31/00</b> [25] EN [54] <b>METHOD AND DEVICE FOR FEEDING PANELS TO A PANEL SAW MACHINE</b> [54] <b>TECHNIQUE ET DISPOSITIF PERMETTANT D'APPROVISIONNER EN PANNEAUX UNE SCIE A PANNEAUX</b> [72] BENUZZI, Piergiorgio, IT [71] GIBEN IMPIANTI S.P.A., IT [85] 1999-05-25 [86] 1998-10-13 (PCT/IB98/01609) [87] 1999-04-29 (WO99/20441) [30] IT (BO97A000620) 1997-10-16</p>

## Demandes PCT entrant en phase nationale

<p style="text-align: right;">[21] <b>2,272,685</b> [13] A1</p> <p>[51] <b>Int.Cl. 6G07F 7/10</b> [25] EN [54] <b>A METHOD AND APPARATUS USING DIGITAL CREDENTIALS AND OTHER ELECTRONIC CERTIFICATES FOR ELECTRONIC TRANSACTIONS</b> [54] <b>PROCEDE ET APPAREIL UTILISANT DES JUSTIFICATIFS D'IDENTITE NUMERIQUES ET D'AUTRES CERTIFICATS ELECTRONIQUES DESTINES A DES TRANSACTIONS ELECTRONIQUES</b> [72] MAHER, David P., US [71] AT&amp;T CORP., US [85] 1999-05-25 [86] 1998-09-21 (PCT/US98/19717) [87] 1999-04-22 (WO99/19845) [30] US (60/060,643) 1997-10-01</p>	<p style="text-align: right;">[21] <b>2,272,689</b> [13] A1</p> <p>[51] <b>Int.Cl. 6C02F 3/30 6C02F 3/34</b> [25] EN [54] <b>METHOD FOR IMPROVING WASTEWATER TREATMENT</b> [54] <b>PROCEDE POUR AMELIORER LE TRAITEMENT DES EAUX USEES</b> [72] DICKERSON, J. Rodney, US [71] DICKERSON, J. Rodney, US [85] 1999-05-25 [86] 1997-11-24 (PCT/US97/21581) [87] 1998-06-04 (WO98/23543) [30] US (08/753,408) 1996-11-25</p>	<p style="text-align: right;">[21] <b>2,272,692</b> [13] A1</p> <p>[51] <b>Int.Cl. 6B31B 19/74 6B31B 23/00</b> [25] EN [54] <b>METHOD AND APPARATUS FOR OBTAINING INDIVIDUAL WEB SECTIONS FROM A WEB OF SHEET MATERIAL</b> [54] <b>PROCEDE ET DISPOSITIF SERVANT A OBTENIR DES SECTIONS INDIVIDUELLES DE BANDE A PARTIR D'UNE BANDE DE MATERIAU</b> [72] SEAWARD, David Robert, GB [72] CAHILL, Michael John, GB [71] KRAFT FOODS, INC., US [71] MOLINS PLC, GB [85] 1999-05-25 [86] 1997-11-26 (PCT/GB97/03234) [87] 1998-06-04 (WO98/23439) [30] GB (96308530.3) 1996-11-26</p>
<p style="text-align: right;">[21] <b>2,272,686</b> [13] A1</p> <p>[51] <b>Int.Cl. 6H04N 3/15 6H04N 5/335</b> [25] EN [54] <b>OPISITOR IMAGE PROCESSOR</b> [54] <b>PROCESSEUR D'IMAGES DE TYPE OPSISTOR</b> [72] CHOW, Alan Y., US [72] CHOW, Vincent Y., US [71] CHOW, Alan Y., US [85] 1999-06-30 [86] 1997-11-25 (PCT/US97/22225) [87] 1998-06-04 (WO98/24231) [30] US (08/755,729) 1996-11-25</p>	<p style="text-align: right;">[21] <b>2,272,690</b> [13] A1</p> <p>[51] <b>Int.Cl. 6C07D 233/50 6C07D 401/12 6C07D 403/12 6C07D 405/12 6C07D 417/12 6C07D 215/38</b> [25] EN [54] <b>PROCESS FOR MAKING 2-AMINO-2-IMIDAZOLINE, GUANIDINE, AND 2-AMINO-3,4,5,6-TETRAHYDROPYRIMIDINE DERIVATIVES</b> [54] <b>PROCEDE DE FABRICATION DE DERIVES 2-AMINO-2-IMIDAZOLINE, GUANIDINE, ET 2-AMINO-3,4,5,6-TETRAHYDROPYRIMIDINE</b> [72] SEIBEL, William Lee, US [72] MUNDLA, Screenivasa Reddy, US [72] KLOPFENSTEIN, Sean Rees, US [72] GODLEWSKI, Michael, US [71] THE PROCTER &amp; GAMBLE COMPANY, US [85] 1999-05-25 [86] 1997-11-25 (PCT/US97/21646) [87] 1998-06-04 (WO98/23595) [30] US (60/034,318) 1996-11-25</p>	<p style="text-align: right;">[21] <b>2,272,694</b> [13] A1</p> <p>[51] <b>Int.Cl. 6B65B 43/52 6B65B 43/30</b> [25] EN [54] <b>APPARATUS AND METHOD FOR HANDLING OBJECTS ON A PACKAGING LINE</b> [54] <b>DISPOSITIF ET PROCEDE SERVANT A MANIPULER DES OBJETS SUR UNE CHAINE D'EMBALLAGE</b> [72] MESSING, Julian Gregory, GB [72] SEAWARD, David Robert, GB [72] BAILEY, Thomas William, GB [72] MARTIN, Simon, GB [72] WHITLOCK, Peter John, GB [71] KRAFT FOODS, INC., US [71] MOLINS PLC, GB [85] 1999-05-25 [86] 1997-11-26 (PCT/GB97/03242) [87] 1998-06-04 (WO98/23487) [30] EP (96308529.5) 1996-11-26</p>
<p style="text-align: right;">[21] <b>2,272,688</b> [13] A1</p> <p>[51] <b>Int.Cl. 6B03C 3/28 6B01D 39/00 6B01D 39/04 6B01D 39/14 6B03C 3/155 6F24F 3/16</b> [25] EN [54] <b>GAS BORNE PARTICULATE FILTRATION DEVICE AND METHOD OF MANUFACTURING THEREOF</b> [54] <b>DISPOSITIF PERFECTIONNE DE FILTRAGE DE PARTICULES VEHICULEES PAR UN GAZ ET PROCEDE DE FABRICATION DE CE DISPOSITIF</b> [72] COHEN, Bernard, US [71] KIMBERLY-CLARK WORLDWIDE, INC., US [85] 1999-05-25 [86] 1997-12-05 (PCT/US97/22365) [87] 1998-06-11 (WO98/24552) [30] US (08/764,102) 1996-12-06</p>	<p style="text-align: right;">[21] <b>2,272,691</b> [13] A1</p> <p>[51] <b>Int.Cl. 6A61M 25/00 6A61B 17/00 6A61M 25/06</b> [25] EN [54] <b>MULTIPLE LUMEN ACCESS DEVICE</b> [54] <b>DISPOSITIF D'ACCES A PLUSIEURS LUMIERES</b> [72] BOBO, Donald E., Jr., US [72] MOONEY, Charles, US [72] HIGGINS, Michael J., US [72] PECOR, Robert, US [71] BAXTER INTERNATIONAL INC., US [85] 1999-05-25 [86] 1997-11-20 (PCT/US97/21253) [87] 1998-06-11 (WO98/24501) [30] US (08/756,763) 1996-11-26 [30] US (08/953,105) 1997-10-17</p>	<p style="text-align: right;">[21] <b>2,272,695</b> [13] A1</p> <p>[51] <b>Int.Cl. 6A61N 1/37 6A61N 1/39</b> [25] EN [54] <b>CARDIAC STIMULATOR WITH BACKUP-MODE SELF-RECOVERY</b> [54] <b>STIMULATEUR CARDIAQUE A AUTORECUPERATION EN MODE DE SECOURS</b> [72] PRUTCHI, David, US [72] ROTTENBERG, William B., US [72] PAUL, Patrick J., US [71] INTERMEDICS INC., US [85] 1999-05-25 [86] 1997-11-21 (PCT/US97/21502) [87] 1998-06-04 (WO98/23327) [30] US (08/755,699) 1996-11-25</p>

## PCT Applications Entering the National Phase

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[21] **2,272,696**  
[13] A1  
[51] **Int.Cl. 6F16D 11/00 6F16D 41/12**  
[25] EN  
[54] **ONE-WAY OVERRUNNING CLUTCH**  
[54] **EMBAYAGE A ROUE LIBRE UNIDIRECTIONNEL**  
[72] REED, Martin E., US  
[72] HATCHER, William J., US  
[72] SINK, Danny R., US  
[72] KLECKER, Brian D., US  
[71] MEANS INDUSTRIES, INC., US  
[85] 1999-05-25  
[86] 1997-12-02 (PCT/US97/21925)  
[87] 1998-06-11 (WO98/25041)  
[30] US (757,097) 1996-12-02

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[21] **2,272,697**  
[13] A1  
[51] **Int.Cl. 6C08F 255/02 6C08L 71/02**  
[25] EN  
[54] **MESH-FORMING MATERIAL AND METHOD OF MAKING THE SAME**  
[54] **MATERIAU MAILLANT ET PROCEDE DE REALISATION CORRESPONDANT**  
[72] MUMICK, Pavneet Singh, US  
[72] SCHERTZ, David Michael, US  
[72] WANG, James Hongxue, US  
[71] KIMBERLY-CLARK WORLDWIDE, INC., US  
[85] 1999-05-25  
[86] 1997-12-03 (PCT/US97/22544)  
[87] 1998-06-18 (WO98/25979)  
[30] US (08/761,924) 1996-12-09

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[21] **2,272,698**  
[13] A1  
[51] **Int.Cl. 6B65B 43/30**  
[25] EN  
[54] **APPARATUS AND METHOD FOR OPENING FLATTENED BAGS**  
[54] **DISPOSITIF ET PROCEDE SERVANT A OUVRIR DES SACS APLATIS**  
[72] MESSING, Julian Gregory, GB  
[72] WHITLOCK, Peter John, GB  
[72] SEAWARD, David Robert, GB  
[72] MARTIN, Simon, GB  
[72] BAILEY, Thomas William, GB  
[71] KRAFT FOODS, INC., US  
[71] MOLINS PLC, GB  
[85] 1999-05-25  
[86] 1997-11-26 (PCT/GB97/03240)  
[87] 1998-06-04 (WO98/23486)  
[30] EP (96308531.1) 1996-11-26

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[21] **2,272,699**  
[13] A1  
[51] **Int.Cl. 6B65B 1/06 6B65B 7/06 6B65B 43/12 6B65B 51/12**  
[25] EN  
[54] **BAG FILLING, CLOSING, AND SEALING MACHINE**  
[54] **MACHINE A REMPLIR, FERMER ET SCELLER DES SACS**  
[72] STEIGER, Tracy Jay, US  
[72] WOBSCHELL, LaVern Noel, US  
[72] MCGREGOR, James Ray, US  
[71] SLIDELL, INC., US  
[85] 1999-05-25  
[86] 1997-10-30 (PCT/US97/19751)  
[87] 1998-05-14 (WO98/19912)  
[30] US (08/744,628) 1996-11-06

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[21] **2,272,700**  
[13] A1  
[51] **Int.Cl. 6H04B 10/152**  
[25] EN  
[54] **OPISITOR TRANSMITTER DATA COMPRESSION CIRCUIT**  
[54] **DISPOSITIF DE TRANSMISSION A OPISITOR AVEC UN CIRCUIT DE COMPRESSION DES DONNEES**  
[72] CHOW, Alan Y., US  
[72] CHOW, Vincent Y., US  
[71] CHOW, Alan Y., US  
[85] 1999-05-25  
[86] 1997-11-25 (PCT/US97/21569)  
[87] 1998-06-04 (WO98/24196)  
[30] US (08/755,729) 1996-11-25

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[21] **2,272,701**  
[13] A1  
[51] **Int.Cl. 6C07H 15/18 6C07H 15/26**  
[25] EN  
[54] **GLYCOLIPID MIMICS AND METHODS OF USE THEREOF**  
[54] **ANALOGUES DE GLYCOLIPIDES ET PROCEDES D'UTILISATION ASSOCIES**  
[72] LINGWOOD, Clifford A., CA  
[72] MYLVAGANAM, Murugesapillai, CA  
[71] HSC RESEARCH AND DEVELOPMENT LIMITED PARTNERSHIP, CA  
[85] 1999-05-25  
[86] 1997-11-24 (PCT/CA97/00877)  
[87] 1998-06-04 (WO98/23627)  
[30] US (08/753,222) 1996-11-22

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[21] **2,272,702**  
[13] A1  
[51] **Int.Cl. 6A61K 9/44 6A61K 9/20**  
[25] EN  
[54] **PRODUCT**  
[54] **PRODUIT**  
[72] FLEWITT, Harry, GB  
[71] SMITHKLINE BEECHAM PLC, GB  
[85] 1999-05-25  
[86] 1997-11-24 (PCT/EP97/07000)  
[87] 1998-06-04 (WO98/23264)  
[30] GB (9624563.4) 1996-11-27

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[21] **2,272,703**  
[13] A1  
[51] **Int.Cl. 6A23G 3/30**  
[25] EN  
[54] **CHEWING GUM COMPOSITION CONTAINING SODIUM GLYCINATE**  
[54] **COMPOSITION POUR GOMME A MACHER CONTENANT DU GLYCINATE DE SODIUM**  
[72] WOLF, Fred R., US  
[72] TYRPIN, Henry T., US  
[71] WM. WRIGLEY JR. COMPANY, US  
[85] 1999-05-26  
[86] 1996-12-23 (PCT/US96/20329)  
[87] 1998-06-04 (WO98/23167)  
[30] WO (PCT/US96/18977) 1996-11-27

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[21] **2,272,704**  
[13] A1  
[51] **Int.Cl. 6B29C 39/16**  
[25] EN  
[54] **DEVICE FOR PRODUCING MOLDED PARTS**  
[54] **DISPOSITIF POUR LA FABRICATION DE PIECES MOULEES**  
[72] KLEPSCH, Rudolf, AT  
[71] POLYTECH KLEPSCH & CO. GMBH, AT  
[85] 1999-05-26  
[86] 1997-11-26 (PCT/AT97/00258)  
[87] 1998-06-04 (WO98/23426)  
[30] AT (A 2061/96) 1996-11-27

## Demandes PCT entrant en phase nationale

[21] **2,272,705**  
[13] A1

[51] **Int.Cl. 6C07D 471/04 6C07D 487/04 6A61K 31/505**  
[25] EN  
[54] **FUSED BICYCLIC PYRIMIDINE DERIVATIVES**  
[54] **DERIVES DE PYRIMIDINES BICYCLIQUES FUSIONNES**  
[72] ARNOLD, Lee Daniel, US  
[72] MOYER, Mikel Paul, US  
[72] SOBOLOV-JAYNES, Susan Beth, US  
[71] PFIZER INC., US  
[85] 1999-05-26  
[86] 1997-11-05 (PCT/IB97/01393)  
[87] 1998-06-04 (WO98/23613)  
[30] US (60/031,862) 1996-11-27  
[30] US (60/041,846) 1997-04-09

[21] **2,272,706**  
[13] A1

[51] **Int.Cl. 6H04B 11/00 6B64B 1/34 6G01V 1/36**  
[25] EN  
[54] **MARINE SEISMIC SOURCE**  
[54] **SOURCE SISMIQUE MARINE**  
[72] AMBS, Loran D., US  
[72] SALLAS, John J., US  
[71] WESTERN ATLAS INTERNATIONAL, INC., US  
[85] 1999-05-26  
[86] 1998-09-16 (PCT/US98/19230)  
[87] 1999-04-08 (WO99/17473)  
[30] US (08/940,088) 1997-09-29

[21] **2,272,707**  
[13] A1

[51] **Int.Cl. 6G08B 13/18 6H04N 5/232**  
[25] EN  
[54] **IMAGING SYSTEM**  
[54] **SYSTEME D'IMAGERIE**  
[72] SRINIVASAN, Mandyam Veerambudi, AU  
[72] CHAHL, Javaan Singh, AU  
[71] THE AUSTRALIAN NATIONAL UNIVERSITY, AU  
[85] 1999-05-26  
[86] 1997-12-02 (PCT/AU97/00815)  
[87] 1998-06-11 (WO98/25245)  
[30] AU (PO 3976) 1996-12-02

[21] **2,272,708**  
[13] A1

[51] **Int.Cl. 6G06F 11/00**  
[25] EN  
[54] **FILE DIRECTORY AND FILE NAVIGATION SYSTEM**  
[54] **REPERTOIRE DE FICHIERS ET SYSTEME D'EXPLORATION CORRESPONDANT**  
[72] GANDEE, John J., US  
[72] GODWIN, Kurt E., US  
[72] HOWARD, David E., US  
[71] 1 VISION SOFTWARE, LLC, US  
[85] 1999-05-26  
[86] 1997-11-26 (PCT/US97/21837)  
[87] 1998-06-04 (WO98/24025)  
[30] US (60/031,926) 1996-11-27

[21] **2,272,709**  
[13] A1

[51] **Int.Cl. 6G07D 9/00**  
[25] EN  
[54] **MONEY REFUND DEVICE FOR PAYMENT MECHANISMS**  
[54] **RENDEUR DE MONNAIE POUR MECANISME DE PAIEMENT**  
[72] IBANEZ PALOMEQUE, Francisco, ES  
[71] AZKOYEN INDUSTRIAL, S.A., ES  
[85] 1999-05-26  
[86] 1997-11-17 (PCT/ES97/00278)  
[87] 1998-06-04 (WO98/24068)  
[30] ES (P 9602491) 1996-11-26

[21] **2,272,710**  
[13] A1

[51] **Int.Cl. 6B65H 45/22**  
[25] EN  
[54] **ASSEMBLY OF WEBS HAVING STAGGERED EDGE FOLDS**  
[54] **ENSEMBLE DE VOILES POURVUS DE PLIS DE BORDURE EN QUINCONCE**  
[72] WHITESCARVER, Milton E., US  
[71] THE PROCTER & GAMBLE COMPANY, US  
[85] 1999-05-26  
[86] 1997-11-25 (PCT/US97/21645)  
[87] 1998-06-04 (WO98/23519)  
[30] US (08/757,369) 1996-11-27

[21] **2,272,711**  
[13] A1

[51] **Int.Cl. 6A61K 31/295**  
[25] EN  
[54] **METHOD FOR TREATING RENAL FAILURE**  
[54] **PROCEDES DE TRAITEMENT DE L'INSUFFISANCE RENALE**  
[72] HSU, Chen Hsing, US  
[71] HSU, Chen Hsing, US  
[85] 1999-05-26  
[86] 1997-11-14 (PCT/US97/20977)  
[87] 1998-06-25 (WO98/26776)  
[30] US (60/032,745) 1996-12-16  
[30] US (08/794,328) 1997-02-03

[21] **2,272,712**  
[13] A1

[51] **Int.Cl. 6F42B 3/10**  
[25] EN  
[54] **HYBRID ELECTRONIC DETONATOR DELAY CIRCUIT ASSEMBLY**  
[54] **CIRCUIT A RETARD DE DETONATEUR ELECTRONIQUE HYBRIDE**  
[72] RODE, Kenneth A., US  
[72] EWICK, David W., US  
[72] WALSH, Brendan M., US  
[72] MARSHALL, Paul N., US  
[72] TSEKA, Thomas C., US  
[71] THE ENSIGN-BICKFORD COMPANY, US  
[85] 1999-05-26  
[86] 1997-12-03 (PCT/US97/22404)  
[87] 1998-06-18 (WO98/26248)  
[30] US (08/762,262) 1996-12-09

[21] **2,272,714**  
[13] A1

[51] **Int.Cl. 6B27N 1/00 6B27N 3/00 6B27N 3/28**  
[25] EN  
[54] **METHOD FOR USE OF RECYCLED LIGNOCELLULOSIC COMPOSITE MATERIALS**  
[54] **PROCEDE D'UTILISATION DE MATIERES COMPOSITES LIGNOCELLULOSIQUES RECYCLEES**  
[72] ROFFAEL, Edmone, DE  
[71] MARLIT LTD., GR  
[85] 1999-05-26  
[86] 1997-12-01 (PCT/GR97/00041)  
[87] 1998-06-11 (WO98/24605)  
[30] GB (9625068.3) 1996-12-02

## PCT Applications Entering the National Phase

[21] **2,272,715**  
[13] A1

[51] **Int.Cl. 6G06T 11/00 6G06T 17/00**  
[25] EN  
[54] **METHOD AND APPARATUS FOR RAPIDLY EVALUATING DIGITAL DATA PROCESSING PARAMETERS**  
[54] **PROCEDE ET DISPOSITIF D'EVALUATION RAPIDE DE PARAMETRES DE TRAITEMENT INFORMATIQUE**  
[72] DALTON, Michael, US  
[71] VOXEL, US  
[85] 1999-05-26  
[86] 1997-11-17 (PCT/US97/20824)  
[87] 1998-06-04 (WO98/24064)  
[30] US (08/757,557) 1996-11-27

[21] **2,272,716**  
[13] A1

[51] **Int.Cl. 6C07D 211/34**  
[25] EN  
[54] **RESOLUTION OF RITALINIC ACID SALT**  
[54] **DEDOUBLEMENT D'UN SEL D'ACIDE RITALINIQUE**  
[72] ZAVAREH, Hooshang Shahriari, GB  
[72] POTTER, Gerard Andrew, GB  
[71] MEDEVA EUROPE LIMITED, GB  
[85] 1999-05-26  
[86] 1998-01-14 (PCT/GB98/00112)  
[87] 1998-07-23 (WO98/31668)  
[30] GB (9700912.0) 1997-01-17

[21] **2,272,717**  
[13] A1

[51] **Int.Cl. 6C07D 501/36 6A61K 31/545**  
[25] EN  
[54] **CEPHALOSPORIN DERIVATIVES**  
[54] **DERIVES DE CEPHALOSPORINE**  
[72] SPRINGER, Dane M., US  
[72] LUH, Bing Y., US  
[72] D'ANDREA, Stanley V., US  
[72] HUDYMA, Thomas W., US  
[72] KIM, Oak K., US  
[71] BRISTOL-MYERS SQUIBB COMPANY, US  
[85] 1999-05-26  
[86] 1997-11-21 (PCT/US97/21785)  
[87] 1998-06-04 (WO98/23621)  
[30] US (60/034,046) 1996-11-27

[21] **2,272,718**  
[13] A1

[51] **Int.Cl. 6E04B 2/76**  
[25] EN  
[54] **KNOCK-DOWN PORTABLE PARTITION SYSTEM**  
[54] **SYSTEME DE CLOISONNAGE TRANSPORTABLE DEMONTABLE**  
[72] WAALKES, Michael L., US  
[72] PRESSNELL, Marcus K., US  
[72] SHIELDS, Michael R., US  
[72] SLAGER, Mark T., US  
[72] ROBIN, Christopher, US  
[72] KANE, Brian J., US  
[71] STEELCASE INC., US  
[85] 1999-05-20  
[86] 1997-12-22 (PCT/US97/23425)  
[87] 1998-07-02 (WO98/28503)  
[30] US (60/033,884) 1996-12-24

[21] **2,272,842**  
[13] A1

[51] **Int.Cl. 6C12N 15/62 6C07K 16/28 6C07K 16/46**  
[25] EN  
[54] **HUMANIZED ANTI-CD11A ANTIBODIES**  
[54] **ANTICORPS ANTI-CD11A HUMANISES**  
[72] JARDIEU, Paula M., US  
[72] PRESTA, Leonard G., US  
[71] GENENTECH, INC., US  
[85] 1999-05-27  
[86] 1997-10-20 (PCT/US97/19041)  
[87] 1998-06-04 (WO98/23761)  
[30] US (08/757,205) 1996-11-27

[21] **2,272,843**  
[13] A1

[51] **Int.Cl. 6C12N 15/32 6A01H 5/00 6A01N 63/00 6C07K 16/12 6C07K 14/325 6C12N 15/62 6G01N 33/68 6C12Q 1/68**  
[25] EN  
[54] **BROAD-SPECTRUM DELTA-ENDOTOXINS**  
[54] **ENDOTOXINES DELTA A LARGE SPECTRE**  
[72] MALVAR, Thomas, US  
[72] GILMER, Amy Jelen, US  
[71] ECOGEN, INC., US  
[85] 1999-05-18  
[86] 1997-11-20 (PCT/US97/21587)  
[87] 1998-05-28 (WO98/22595)  
[30] US (08/754,490) 1996-11-20  
[30] US (08/922,505) 1997-09-03

[21] **2,272,844**  
[13] A1

[51] **Int.Cl. 6C12N 15/29 6C08B 30/00 6A01H 5/00 6A23L 1/0522 6C12N 5/10 6C12N 15/10 6C07K 16/16 6C07K 14/415 6C12N 15/54 6C12N 15/82**  
[25] EN  
[54] **NOVEL NUCLEIC ACID MOLECULES FROM MAIZE AND THEIR USE FOR THE PRODUCTION OF MODIFIED STARCH**  
[54] **NOUVELLES MOLECULES D'ACIDE NUCLEIQUE PROVENANT DU MAIS ET LEUR UTILISATION POUR PRODUIRE DE L'AMIDON MODIFIE**  
[72] KOSSMANN, Jens, DE  
[72] EMMERMANN, Michael, DE  
[71] PLANTTEC BIOTECHNOLOGIE GMBH, DE  
[85] 1999-05-21  
[86] 1997-12-18 (PCT/EP97/07123)  
[87] 1998-06-25 (WO98/27212)  
[30] DE (196 53 176.4) 1996-12-19

[21] **2,272,845**  
[13] A1

[51] **Int.Cl. 6C12N 15/48 6A61K 48/00 6C12N 7/02 6C12N 15/08 6C07K 16/10 6C12N 9/12 6C07K 14/15 6A61K 39/21 6C12N 9/22 6A61K 39/42 6G01N 33/569 6C12Q 1/70**  
[25] EN  
[54] **VIRAL MATERIAL AND NUCLEOTIDE FRAGMENTS ASSOCIATED WITH MULTIPLE SCLEROSIS, FOR DIAGNOSTIC, PROPHYLACTIC AND THERAPEUTIC PURPOSES**  
[54] **MATIERE VIRALE ET FRAGMENTS DE NUCLEOTIDES ASSOCIES A LA SCLEROSE EN PLAQUES, UTILISES A DES FINS DIAGNOSTIQUES, PROPHYLACTIQUES, ET THERAPEUTIQUES**  
[72] MANDRAND, Bernard, FR  
[72] BESEME, Frédéric, FR  
[72] PARANHOS-BACCALA, Glaucia, FR  
[72] BEDIN, Frédéric, FR  
[72] PERRON, Hervé, FR  
[72] JOLIVET-REYNAUD, Colette, FR  
[72] KOMURIAN-PRADEL, Florence, FR  
[71] BIO MERIEUX, FR  
[85] 1999-05-25  
[86] 1997-11-26 (PCT/IB97/01482)  
[87] 1998-06-04 (WO98/23755)  
[30] US (08/756,429) 1996-11-26

## Demandes PCT entrant en phase nationale

[21] **2,272,846**  
[13] A1

[51] **Int.Cl. 6C12N 15/24 6C12N 5/10 6A61K 38/20 6C12N 1/21 6C07K 16/24 6C07K 14/54**

[25] EN

[54] **PROCESSED POLYPEPTIDES WITH IL-16 ACTIVITY, PROCESSES FOR THEIR PRODUCTION AND THEIR USE**

[54] **POLYPEPTIDES TRAITES AYANT UNE ACTIVITE DE IL-16, PROCEDES DE PRODUCTION ET D'UTILISATION DESDITS POLYPEPTIDES**

[72] KURTH, Reinhard, DE

[72] AMBROSIUS, Dorothee, DE

[72] WERNER, Albrecht, DE

[72] LANZENDORFER, Martin, DE

[72] BAIER, Michael, DE

[71] BUNDESREPUBLIK DEUTSCHLAND, vertreten durch den BUNDESMINISTER FUR GESUN, DE

[71] BOEHRINGER MANNHEIM GMBH, DE

[85] 1999-05-25

[86] 1997-11-20 (PCT/EP97/06476)

[87] 1998-06-04 (WO98/23751)

[30] DE (196 48 715.3) 1996-11-25

[30] DE (196 49 233.5) 1996-11-28

[21] **2,272,847**  
[13] A1

[51] **Int.Cl. 6C12N 15/32 6C07K 19/00 6A01N 63/00 6C12N 7/01 6A01H 5/10 6C07K 14/325 6C12Q 1/68 6C12N 15/82**

[25] EN

[54] **DNA ENCODING LEPIDOPTERAN-ACTIVE DELTA-ENDOTOXINS AND ITS USE**

[54] **ENDOTOXINES DELTA ACTIVES CONTRE LES LEPIDOPTERES ET CODANT L'ADN, ET UTILISATION DE CES DERNIERES**

[72] METTUS, Anne-Marie, US

[72] BAUM, James A., US

[72] GILMER, Amy Jelen, US

[71] ECOGEN, INC., US

[85] 1999-05-25

[86] 1997-11-26 (PCT/US97/22181)

[87] 1998-06-04 (WO98/23641)

[30] US (08/757,536) 1996-11-27

[21] **2,272,848**  
[13] A1

[51] **Int.Cl. 6C12N 15/54 6C12N 9/10 6C07K 16/40 6A61K 38/45 6A61K 38/52 6C12N 15/61 6C12N 9/90**

[25] EN

[54] **PARASITIC NEMATODE TRANSGLUTAMINASE PROTEINS, NUCLEIC ACID MOLECULES, AND USES THEREOF**

[54] **PROTEINES TRANSGLUTAMINASES DES NEMATODES PARASITES, MOLECULES D'ACIDE NUCLEIQUE ET LEURS UTILISATIONS**

[72] CHANDRASHEKAR, Ramaswamy, US

[72] MEHTA, Kapil, US

[71] HESKA CORPORATION, US

[85] 1999-05-26

[86] 1997-12-02 (PCT/US97/21999)

[87] 1998-06-11 (WO98/24887)

[30] US (08/781,420) 1996-12-03

[21] **2,272,849**  
[13] A1

[51] **Int.Cl. 6C22B 23/00**

[25] EN

[54] **METHOD FOR PHYTOMINING OF NICKEL, COBALT AND OTHER METALS FROM SOIL**

[54] **PROCEDE DE PHYTOEXTRACTION DE NICKEL, COBALT ET AUTRES METAUX PRESENTS DANS LE SOL**

[72] LI, Yin-Ming, US

[72] ANGLE, Jay Scott, US

[72] CHANEY, Rufus L., US

[71] UNIVERSITY OF MARYLAND, US

[71] UNITED STATES AS REPRESENTED BY THE SECRETARY OF AGRICULTURE, US

[85] 1999-02-26

[86] 1997-08-29 (PCT/US97/15109)

[87] 1998-03-05 (WO98/08991)

[30] US (60/024,928) 1996-08-30

[30] US (60/030,462) 1996-11-06

[21] **2,272,850**  
[13] A1

[51] **Int.Cl. 6C12Q 1/68 6C07H 21/04 6C12P 19/34 6C07K 14/435**

[25] EN

[54] **GENETIC TEST FOR EQUINE SEVERE COMBINED IMMUNODEFICIENCY DISEASE**

[54] **TEST GENETIQUE DE DEPISTAGE DE MALADIES LIEES AU DEFICIT IMMUNITAIRE COMBINE SEVERE CHEZ LES EQUIDES**

[72] MEEKS, Katheryn D., US

[71] BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM, US

[85] 1999-05-26

[86] 1997-11-14 (PCT/US97/21066)

[87] 1998-05-22 (WO98/21367)

[30] US (60/031261) 1996-11-15

[21] **2,272,851**  
[13] A1

[51] **Int.Cl. 6C12N 15/85 6A01K 67/027 6C12N 5/10 6C07K 14/47 6C12N 15/67**

[25] EN

[54] **SYNDECAN ENHANCER ELEMENT AND ITS USE FOR TARGETING GENE EXPRESSION**

[54] **ELEMENT STIMULATEUR DE SYNDECANE ET SON UTILISATION POUR CIBLER L'EXPRESSION GENIQUE**

[72] JALKANEN, Markku, FI

[72] VIHINEN, Tapani, FI

[72] JAAKKOLA, Panu, FI

[71] OY BIOTIE THERAPIES, LTD., FI

[85] 1999-05-26

[86] 1997-12-02 (PCT/FI97/00748)

[87] 1998-06-11 (WO98/24921)

[30] US (760,534) 1996-12-02

[21] **2,272,852**  
[13] A1

[51] **Int.Cl. 6C04B 38/00 6B01D 71/02**

[25] EN

[54] **FUNCTIONALLY GRADIENT CERAMIC STRUCTURES**

[54] **STRUCTURES CERAMIQUES A GRADIENT FONCTIONNEL**

[72] DARCOVICH, Ken, CA

[71] NATIONAL RESEARCH COUNCIL OF CANADA, CA

[85] 1999-04-27

[86] 1997-11-10 (PCT/CA97/00844)

[87] 1998-05-22 (WO98/21164)

[30] US (60/030,518) 1996-11-12



## PCT Applications Entering the National Phase

[21] **2,272,853**  
[13] A1

[51] **Int.Cl. 6A61K 38/08 6C07K 7/14**  
[25] EN  
[54] **USE OF PEPTIDES FOR IMPROVING THE INCORPORATION OF SKIN GRAFTS**  
[54] **UTILISATION DE PEPTIDES PERMETTANT D'AMELIORER L'INCORPORATION DE GREFFES DE LA PEAU**  
[72] DIZEREGA, Gere Stodder, US  
[72] RODGERS, Kathleen E., US  
[71] THE UNIVERSITY OF SOUTHERN CALIFORNIA, US  
[85] 1999-05-28  
[86] 1997-12-16 (PCT/US97/23461)  
[87] 1998-06-25 (WO98/26795)  
[30] US (60/028,310) 1996-12-16  
[30] US (08/990,664) 1997-12-15

[21] **2,272,854**  
[13] A1

[51] **Int.Cl. 6C07K 14/50 6A61K 38/18 6A61K 38/26 6C07K 14/605**  
[25] EN  
[54] **KERATINOCYTE GROWTH FACTORS AND THEIR USE IN COMBINATION WITH GLUCAGON-LIKE PEPTIDE DERIVATIVES**  
[54] **FACTEURS DE CROISSANCE DES KERATINOCYTES ET LEURS UTILISATIONS**  
[72] FARRELL, Catherine L., US  
[72] LI, Yue-Sheng, US  
[71] AMGEN INC., US  
[85] 1999-05-28  
[86] 1997-12-08 (PCT/US97/22735)  
[87] 1998-06-11 (WO98/24813)  
[30] US (60/032,533) 1996-12-06  
[30] US (60/062,074) 1997-10-15

[21] **2,272,855**  
[13] A1

[51] **Int.Cl. 6G01N 33/68 6C07K 16/28 6G01N 33/574**  
[25] EN  
[54] **METHOD FOR DIAGNOSIS AND THERAPY OF HODGKIN'S LYMPHOMAS**  
[54] **PROCEDE DE DIAGNOSTIC ET DE TRAITEMENT DES LYMPHOMES HODGKINIENS**  
[72] BEHAM-SCHMID, Christine, AT  
[72] ZATLOUKAL, Kurt, AT  
[72] HEIDER, Karl-Heinz, AT  
[71] FORSCHUNGSZENTRUM KARLSRUHE GMBH, DE  
[71] BOEHRINGER INGELHEIM INTERNATIONAL GMBH, DE  
[85] 1999-05-31  
[86] 1997-12-17 (PCT/EP97/07081)  
[87] 1998-07-02 (WO98/28625)  
[30] DE (196 53 607.3) 1996-12-20

[21] **2,272,856**  
[13] A1

[51] **Int.Cl. 6C08F 8/32 6C10L 1/22**  
[25] EN  
[54] **MONOAMINES AND A METHOD OF MAKING THE SAME**  
[54] **MONOAMINES ET LEUR PROCEDE DE FABRICATION**  
[72] KINDER, James D., US  
[72] DEVER, James L., US  
[72] BALDWIN, Larry J., US  
[71] FERRO CORPORATION, US  
[85] 1999-05-05  
[86] 1997-12-17 (PCT/US97/22064)  
[87] 1998-07-02 (WO98/28346)  
[30] US (08/770,245) 1996-12-20

[21] **2,272,857**  
[13] A1

[51] **Int.Cl. 6B01F 3/04 6C22B 3/00 6C22B 3/06 6C01G 49/06 6C01G 49/08 6C22B 3/10 6C22B 3/44**  
[25] EN  
[54] **IMPROVED LEACHING OF MINERAL ORES**  
[54] **LIXIVIATION AMELIOREE DE MINERAIS**  
[72] NGUYEN, Giao, AU  
[71] ATOMAER PTY. LTD., AU  
[85] 1999-05-05  
[86] 1997-11-06 (PCT/AU97/00751)  
[87] 1998-05-14 (WO98/19779)  
[30] AU (PO 3470) 1996-11-06  
[30] AU (PO 6626) 1997-05-06

[21] **2,272,859**  
[13] A1

[51] **Int.Cl. 6H01F 27/36 6H05K 9/00**  
[25] EN  
[54] **ELECTRODE FOR FIELD CONTROL**  
[54] **ELECTRODE POUR LA COMMANDE DE CHAMP**  
[72] MING, Li, SE  
[72] FROMM, Udo, SE  
[72] WINDMAR, Dan, SE  
[72] LEIJON, Mats, SE  
[71] ABB RESEARCH LTD., SE  
[85] 1999-05-10  
[86] 1997-11-21 (PCT/SE97/01953)  
[87] 1998-05-28 (WO98/22958)  
[30] SE (9604282-5) 1996-11-22

[21] **2,272,860**  
[13] A1

[51] **Int.Cl. 6E21B 49/02**  
[25] EN  
[54] **HYDROSTATIC PENETRATION DEVICE AND TOOL FOR THE SAME**  
[54] **DISPOSITIF DE PENETRATION HYDROSTATIQUE ET OUTIL POUR LEDIT DISPOSITIF**  
[72] AARDAL, Kare, NO  
[71] NORCON AG, CH  
[85] 1999-04-07  
[86] 1997-10-06 (PCT/NO97/00268)  
[87] 1998-04-16 (WO98/15713)  
[30] NO (964259) 1996-10-07

[21] **2,272,861**  
[13] A1

[51] **Int.Cl. 6H04Q 11/04 6H04L 12/56**  
[25] EN  
[54] **ROUTING METHOD WITH SELEECTABLE GRANULARITY OF THE RATE OF ASYNCHERONOUSLY TRANSMITTED MESSAGE CELLS**  
[54] **ROUTING METHOD WITH SELEECTABLE GRANULARITY OF THE RATE OF ASYNCHERONOUSLY TRANSMITTED MESSAGE CELLS**  
[72] STEPLINGER, Robert, DE  
[71] SIEMENS AKTIENGESSELLSCHAFT, DE  
[85] 1999-04-29  
[86] 1997-10-07 (PCT/DE97/02295)  
[87] 1998-05-07 (WO98/19494)  
[30] DE (196 44 099.8) 1996-10-31

## Demandes PCT entrant en phase nationale

<p style="text-align: right;">[21] <b>2,272,862</b> [13] A1</p> <p>[51] <b>Int.Cl. 6A61M 31/00</b> [25] EN [54] <b>OXYMETRY MONITORED, PATIENT CONTROLLED ANALGESIA SYSTEM</b> [54] <b>SYSTEME D'AUTO-ANALGESIE A LA DEMANDE AVEC CONTROLE DE L'OXYMETRIE</b> [72] BOLLISH, Stephen J., US [72] DUFFY, Robert J., US [71] IMED CORPORATION, US [85] 1999-05-04 [86] 1997-11-06 (PCT/US97/20316) [87] 1998-05-14 (WO98/19734) [30] US (08/744,486) 1996-11-06</p>	<p style="text-align: right;">[21] <b>2,272,864</b> [13] A1</p> <p>[51] <b>Int.Cl. 6H04B 7/26</b> [25] EN [54] <b>METHOD AND APPARATUS FOR GENERATING COMPLEX FOUR-PHASE SEQUENCES FOR A CDMA COMMUNICATION SYSTEM</b> [54] <b>PROCEDE ET APPAREIL DE PRODUCTION DE SEQUENCES COMPLEXES A QUATRE PHASES DANS UN SYSTEME DE TELECOMMUNICATIONS AMCR</b> [72] OZLUTURK, Fatih M., US [71] INTERDIGITAL TECHNOLOGY CORPORATION, US [85] 1999-05-17 [86] 1998-05-20 (PCT/US98/10199) [87] 1999-04-29 (WO99/21299) [30] US (08/956,808) 1997-10-23</p>	<p style="text-align: right;">[21] <b>2,272,866</b> [13] A1</p> <p>[51] <b>Int.Cl. 6H01M 8/10 6H01M 8/04 6H01M 8/08</b> [25] EN [54] <b>NOVEL POLYMER ELECTROLYTE MEMBRANES FOR USE IN FUEL CELLS</b> [54] <b>MEMBRANES D'ELECTROLYTE POLYMERE POUR PILES A COMBUSTIBLE</b> [72] NARAYANAN, S.R., US [72] SURUMPUDI, Subbarao, US [72] SMART, Marshall C., US [72] OLAH, George A., US [72] HALPERT, Gerald, US [72] PRAKASH, G.K. Surya, US [72] WANG, Quingie S., US [71] CALIFORNIA INSTITUTE OF TECHNOLOGY, US [71] UNIVERSITY OF SOUTHERN CALIFORNIA, US [85] 1999-05-18 [86] 1997-11-18 (PCT/US97/21247) [87] 1998-05-28 (WO98/22989) [30] US (08/751,366) 1996-11-18 [30] US (08/846,972) 1997-04-30</p>
<p style="text-align: right;">[21] <b>2,272,863</b> [13] A1</p> <p>[51] <b>Int.Cl. 6C08F 2/22</b> [25] EN [54] <b>METHOD FOR THE PRODUCTION OF A POLYMER DISPERSION BY RADICAL AQUEOUS EMULSION POLYMERIZATION WITH A CONTINUOUSLY PRODUCED AQUEOUS MONOMER EMULSION</b> [54] <b>PROCEDE DE PRODUCTION D'UNE DISPERSION POLYMERE PAR POLYMERISATION EN EMULSION AQUEUSE RADICALAIRE AU MOYEN D'UNE EMULSION DE MONOMERES AQUEUSE PRODUITE EN CONTINU</b> [72] BÄCHER, Reinhard, DE [72] BAUER, Gerhard, DE [72] SCHMIDT-THUMMES, Jürgen, DE [72] HARTMANN, Jürgen, DE [72] KELLER, Andreas, DE [72] TSCHANG, Chung-Ji, DE [72] LAWRENZ, Sven, DE [71] BASF AKTIENGESELLSCHAFT, DE [85] 1999-05-10 [86] 1997-11-21 (PCT/EP97/06511) [87] 1998-06-04 (WO98/23650) [30] DE (19648744.7) 1996-11-25</p>	<p style="text-align: right;">[21] <b>2,272,865</b> [13] A1</p> <p>[51] <b>Int.Cl. 6A61K 38/00 6C07K 7/00 6C07K 7/04 6A61K 38/08 6A61K 38/11</b> [25] EN [54] <b>ALKYL PEPTIDE AMIDES AND APPLICATIONS</b> [54] <b>AMIDES D'ALKYLE PEPTIDE ET APPLICATIONS</b> [72] GOUELI, Said A., US [71] PROMEGA CORPORATION, US [85] 1999-05-18 [86] 1997-11-20 (PCT/US97/21509) [87] 1998-05-28 (WO98/22122) [30] US (60/031,428) 1996-11-21</p>	<p style="text-align: right;">[21] <b>2,272,867</b> [13] A1</p> <p>[51] <b>Int.Cl. 6F16L 35/00</b> [25] EN [54] <b>QUICK CONNECTOR WITH VISUAL INDICATOR</b> [54] <b>RACCORD RAPIDE COMPORANT UN INDICATEUR VISUEL</b> [72] BARTHOLOMEW, Donald D., US [71] PROPRIETARY TECHNOLOGY, INC., US [85] 1999-05-18 [86] 1996-11-20 (PCT/US96/18587) [87] 1998-05-28 (WO98/22743)</p>

## PCT Applications Entering the National Phase

[21] **2,272,868**  
[13] A1

[51] **Int.Cl. 6C07C 67/08 6C07C 69/54 6C07C 67/58**  
[25] EN  
[54] **METHOD FOR THE PRODUCTION OF (METH)ACRYLIC ACID ESTERS**  
[54] **PROCEDE POUR LA PREPARATION D'ESTERS D'ACIDE (METH)ACRYLIQUE**  
[72] FRIED, Michael, DE  
[72] AICHINGER, Heinrich, AT  
[72] DAMS, Albrecht, DE  
[72] NESTLER, Gerhard, AT  
[71] BASF AKTIENGESELLSCHAFT, DE  
[85] 1999-05-10  
[86] 1997-11-21 (PCT/EP97/06514)  
[87] 1998-06-04 (WO98/23577)  
[30] DE (19648745.5) 1996-11-25

[21] **2,272,869**  
[13] A1

[51] **Int.Cl. 6A61B 17/22**  
[25] EN  
[54] **MEDICAL RETRIEVAL BASKET WITH LEGS SHAPED TO ENHANCE CAPTURE SOLID MATTER AND REDUCE TRAUMA**  
[54] **PANIER D'EXTRACTION MEDICAL MUNI DE BRAS CONCUS POUR FACILITER LA PREHENSION DE MATIERES SOLIDES ET REDUIRE LES TRAUMATISMES**  
[72] RILEY, James W., US  
[72] BATES, James S., US  
[71] BOSTON SCIENTIFIC LIMITED, BB  
[85] 1999-05-18  
[86] 1998-09-30 (PCT/US98/20560)  
[87] 1999-04-08 (WO99/16365)  
[30] US (60/060,830) 1997-10-01  
[30] US (60/060,819) 1997-10-01  
[30] US (60/060,821) 1997-10-01  
[30] US (09/027,534) 1998-02-23  
[30] US (09/064,704) 1998-04-23  
[30] US (09/065,158) 1998-04-23

[21] **2,272,870**  
[13] A1

[51] **Int.Cl. 6A61N 1/30 6A61B 5/05**  
[25] EN  
[54] **METHOD FOR MEASURING THE CUTANEOUS ELECTRIC RESISTANCE OF A PATIENT SUBJECTED TO TRANSDERMAL ADMINISTRATION OF MEDICINE**  
[54] **PROCEDE DE MESURE DE LA RESISTANCE ELECTRIQUE CUTANEE D'UN PATIENT SOUMIS A UNE ADMINISTRATION TRANSDERMIQUE DE MEDICAMENT**  
[72] MILLOT, Philippe, FR  
[71] LABORATORIES D'HYGIENE ET DE DIETETIQUE (L.H.D.), FR  
[85] 1999-05-18  
[86] 1997-11-18 (PCT/FR97/02072)  
[87] 1998-05-28 (WO98/22182)  
[30] FR (96/14088) 1996-11-19

[21] **2,272,871**  
[13] A1

[51] **Int.Cl. 6A61B 10/00**  
[25] EN  
[54] **BIOPSY FORCEPS INSTRUMENT HAVING IRRIGATION AND ASPIRATION CAPABILITIES**  
[54] **PINCE A BIOPSIE A IRRIGATION ET ASPIRATION**  
[72] KRATSCH, Peter, US  
[72] KORTENBACH, Juergen Andrew, US  
[72] McBRAYER, Michael Sean, US  
[72] TURTURRO, Vincent, US  
[71] SYMBIOSIS CORPORATION, US  
[85] 1999-05-18  
[86] 1997-11-24 (PCT/US97/21512)  
[87] 1998-06-18 (WO98/25523)  
[30] US (08/756,260) 1996-11-25

[21] **2,272,872**  
[13] A1

[51] **Int.Cl. 6F16H 47/08 6F16H 3/72**  
[25] EN  
[54] **CONTINUOUSLY VARIABLE TRANSMISSION**  
[54] **TRANSMISSION VARIABLE EN CONTENU**  
[72] YOO, Wan Moo, KR  
[72] CHOI, Tae Soo, KR  
[72] MOON, Byung II, KR  
[71] APROTECH CO., LTD., KR  
[85] 1999-05-18  
[86] 1997-11-20 (PCT/KR97/00227)  
[87] 1998-05-28 (WO98/22733)  
[30] KR (1996-56980) 1996-11-20

[21] **2,272,874**  
[13] A1

[51] **Int.Cl. 6B65G 15/30 6B65G 15/00 6B65G 17/08**  
[25] EN  
[54] **CONVEYOR DEVICE**  
[54] **DISPOSITIF DE TRANSPORT**  
[72] MOHR, Werner, DE  
[71] COMMUNICATION BELT WERBEFLÄCHEN GMBH, DE  
[85] 1999-05-25  
[86] 1997-11-28 (PCT/EP97/06649)  
[87] 1998-06-11 (WO98/24713)  
[30] DE (196 49 746.9) 1996-11-30

[21] **2,272,878**  
[13] A1

[51] **Int.Cl. 6C08F 290/06 6G02B 1/04 6C08F 290/14 6C08J 9/28**  
[25] EN  
[54] **POROUS POLYORGANOSILOXANE POLYMERS**  
[54] **POLYMERES DE POLYORGANOSILOXANE POREUX**  
[72] CHAOUK, Hassan, AU  
[72] MEIJS, Gordon Francis, AU  
[71] NOVARTIS AG, CH  
[71] COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION, AU  
[85] 1999-05-18  
[86] 1997-12-11 (PCT/EP97/06936)  
[87] 1998-06-18 (WO98/25982)  
[30] AU (75336/96) 1996-12-13

[21] **2,272,879**  
[13] A1

[51] **Int.Cl. 6B65B 51/08**  
[25] EN  
[54] **METHOD AND APPARATUS FOR TWISTING A WIRELESS TWIST TIE**  
[54] **PROCEDE ET APPAREIL POUR TORDRE UN LIEN ARME SANS FIL**  
[72] BURFORD, Charles E., US  
[72] STODDARD, Luther B., US  
[72] PACK, Jerry Dale, US  
[71] BURFORD CORP., US  
[85] 1999-05-18  
[86] 1998-09-17 (PCT/US98/19392)  
[87] 1999-05-27 (WO99/25615)  
[30] US (60/059,329) 1997-09-19

## Demandes PCT entrant en phase nationale

<p style="text-align: right;">[21] <b>2,272,880</b> [13] A1</p> <p>[51] <b>Int.Cl. 6A61K 7/00</b> [25] EN [54] <b>COMPOSITION AND METHOD FOR REDUCING STINGING IN SKIN</b> [54] <b>COMPOSITION ET PROCEDE PERMETTANT DE REDUIRE LA SENSATION D'IRRITATION DE LA PEAU</b> [72] REIN, Glen, US [72] MUIZZUDDIN, Neelam, US [72] MARENUS, Kenneth D., US [72] MATSUI, Mary Steidl, US [71] E-L MANAGEMENT CORP., US [85] 1999-05-18 [86] 1998-09-21 (PCT/US98/19720) [87] 1999-03-25 (WO99/13819) [30] US (08/933,571) 1997-09-19</p>	<p style="text-align: right;">[21] <b>2,272,883</b> [13] A1</p> <p>[51] <b>Int.Cl. 6G11B 33/04</b> [25] EN [54] <b>DEVICE FOR REMOVING COMPACT DISKS FROM THEIR CONTAINERS</b> [54] <b>DISPOSITIF POUR RETIRER DES DISQUES COMPACTS DE LEUR BOITIER</b> [72] DAUTZENBERG, Joseph Hubertus, NL [71] DAUTZENBERG, Joseph Hubertus, NL [85] 1999-05-18 [86] 1997-09-10 (PCT/NL97/00515) [87] 1998-06-25 (WO98/27555) [30] NL (1004816) 1996-12-18</p>	<p style="text-align: right;">[21] <b>2,272,886</b> [13] A1</p> <p>[51] <b>Int.Cl. 6B65D 83/16</b> [25] EN [54] <b>ACTUATOR CAP FOR AN AEROSOL DISPENSER</b> [54] <b>AMELIORATIONS CONCERNANT DES BOMBES D'AEROSOLS</b> [72] THOMPSON, Guy Richard, GB [72] HART, Gerald Leslie, GB [71] S.C. JOHNSON &amp; SON, INC., US [85] 1999-05-25 [86] 1996-12-23 (PCT/GB96/03208) [87] 1998-07-02 (WO98/28207)</p>
<p style="text-align: right;">[21] <b>2,272,881</b> [13] A1</p> <p>[51] <b>Int.Cl. 6G01N 33/569 6G01N 33/543 6G01N 33/68</b> [25] EN [54] <b>ASSAY METHOD FOR PEPTIDE SPECIFIC T-CELLS</b> [54] <b>PROCEDE DE DOSAGE DE LYMPHOCYTES T SPECIFIQUES POUR UN PEPTIDE</b> [72] BROOKES, Roger Hamilton, GB [72] LALVANI, Ajit, GB [71] ISIS INNOVATION LIMITED, GB [85] 1999-05-18 [86] 1997-11-25 (PCT/GB97/03222) [87] 1998-06-04 (WO98/23960) [30] GB (9624456.1) 1996-11-25</p>	<p style="text-align: right;">[21] <b>2,272,884</b> [13] A1</p> <p>[51] <b>Int.Cl. 6B27N 3/08 6B27N 3/18 6B27N 3/20</b> [25] EN [54] <b>MANUFACTURE OF RECONSTITUTED WOOD PRODUCTS</b> [54] <b>PRODUCTION D'ARTICLES EN BOIS RECONSTITUE</b> [72] COLEMAN, John Douglas, AU [71] COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION, AU [85] 1999-05-25 [86] 1997-11-25 (PCT/AU97/00799) [87] 1998-06-04 (WO98/23421) [30] AU (PO 3805) 1996-11-25</p>	<p style="text-align: right;">[21] <b>2,272,887</b> [13] A1</p> <p>[51] <b>Int.Cl. 6H01J 49/42</b> [25] EN [54] <b>RF MASS SPECTROMETER</b> [54] <b>SPECTROMETRE DE MASSE RF</b> [72] HAGER, James W., CA [71] MDS INC., CA [85] 1999-05-18 [86] 1997-10-28 (PCT/CA97/00805) [87] 1998-05-28 (WO98/22972) [30] US (60/031,296) 1996-11-18</p>
<p style="text-align: right;">[21] <b>2,272,882</b> [13] A1</p> <p>[51] <b>Int.Cl. 6C07D 333/24 6C07D 409/12 6A61K 31/38</b> [25] EN [54] <b>KETONE DERIVATIVES AND MEDICINAL USE THEREOF</b> [54] <b>DERIVES DE CETONES ET LEUR UTILISATION EN MEDECINE</b> [72] MATSUMOTO, Tsuyoshi, JP [72] ADACHI, Yasumoto, JP [72] OKANO, Kiyoshi, JP [72] MORI, Katsuyuki, JP [72] KAWAI, Hideki, JP [71] TORAY INDUSTRIES, INC., JP [85] 1999-05-25 [86] 1998-09-25 (PCT/JP98/04316) [87] 1999-04-08 (WO99/16767) [30] JP (9-262032) 1997-09-26</p>	<p style="text-align: right;">[21] <b>2,272,885</b> [13] A1</p> <p>[51] <b>Int.Cl. 6F24H 3/04 6F26B 13/10</b> [25] EN [54] <b>METHOD AND APPARATUS FOR PRODUCING HEATED AIR FOR DIFFERENT APPLICATIONS OF USE</b> [54] <b>PROCEDE ET DISPOSITIF DE PRODUCTION D'AIR CHAUD POUR DIFFERENTES APPLICATIONS</b> [72] NIKUNEN, Hannu, FI [71] ECOPOWER TECHNOLOGY OY, FI [85] 1999-05-18 [86] 1997-12-12 (PCT/FI97/00779) [87] 1998-06-25 (WO98/27391) [30] FI (965060) 1996-12-17 [30] FI (965061) 1996-12-17</p>	<p style="text-align: right;">[21] <b>2,272,888</b> [13] A1</p> <p>[51] <b>Int.Cl. 6F23G 5/00 6F22B 1/00 6F23B 7/00 6F28D 13/00 6F23G 7/00</b> [25] EN [54] <b>CIRCULATING FLUIDIZED BED FURNACE/REACTOR WITH AN INTEGRAL SECONDARY AIR PLENUM</b> [54] <b>FOUR/REACTEUR A LIT FLUIDISE CIRCULANT POURVU D'UNE CHAMBRE DE DISTRIBUTION D'AIR SECONDAIRE INTEGREE</b> [72] BELIN, Felix, US [72] WALKER, David J., US [71] THE BABCOCK &amp; WILCOX COMPANY, US [85] 1999-05-25 [86] 1997-12-02 (PCT/US97/22257) [87] 1998-06-11 (WO98/25074) [30] US (08/759,885) 1996-12-03</p>

## PCT Applications Entering the National Phase

<p style="text-align: right;">[21] <b>2,272,889</b> [13] A1</p> <p>[51] <b>Int.Cl. 6A46B 11/00 6F16K 15/06</b> [25] EN [54] <b>SAFETY VALVE FOR AN INVERTED LIQUID-FILLED CANISTER</b> [54] <b>SOUPAPE DE SECURITE DESTINEE A UN RECIPIENT INVERSE REMPLI DE LIQUIDE</b> [72] MILLER, Christopher Miles, US [72] SCHENNUM, Steven Michael, US [71] THE PROCTER &amp; GAMBLE COMPANY, US [85] 1999-05-25 [86] 1997-11-26 (PCT/US97/21562) [87] 1998-06-04 (WO98/23184) [30] US (08/756,616) 1996-11-26</p>	<p style="text-align: right;">[21] <b>2,272,892</b> [13] A1</p> <p>[51] <b>Int.Cl. 6G11B 23/03</b> [25] EN [54] <b>HOUSING FOR A DISC-SHAPED INFORMATION CARRIER</b> [54] <b>BOITIER POUR SUPPORT D'INFORMATIONS EN FORME DE DISQUE</b> [72] DOODSON, Peter John, NL [71] KONINKLIJKE PHILIPS ELECTRONICS N.V., NL [85] 1999-05-25 [86] 1998-09-21 (PCT/IB98/01450) [87] 1999-04-08 (WO99/17291) [30] EP (97202965.6) 1997-09-26</p>	<p style="text-align: right;">[21] <b>2,272,895</b> [13] A1</p> <p>[51] <b>Int.Cl. 6A61B 17/128 6A61B 17/122 6A61B 17/28</b> [25] EN [54] <b>SURGICAL DEVICE WITH MALLEABLE SHAFT</b> [54] <b>INSTRUMENT CHIRURGICAL AVEC BRAS MALLEABLE</b> [72] BLOCK, Thomas J., US [72] WILLIAMS, Donald B., US [72] GRAY, Joel Donald, US [72] COSGROVE, Delos M., III, US [71] ALLEGIANCE CORPORATION, US [85] 1999-05-25 [86] 1998-09-24 (PCT/US98/20217) [87] 1999-04-01 (WO99/15089) [30] US (08/936,394) 1997-09-25</p>
<p style="text-align: right;">[21] <b>2,272,890</b> [13] A1</p> <p>[51] <b>Int.Cl. 6G01N 33/533 6G01N 33/58</b> [25] EN [54] <b>NON-AGGREGATED FLUORESCENT CONJUGATES AND METHOD FOR OBTAINING THEM</b> [54] <b>CONJUGUES FLUORESCENTS NON AGREGES ET LEUR PROCEDE D'OBTENTION</b> [72] ASPE, Daniel, FR [71] CIS BIO INTERNATIONAL, FR [85] 1999-05-25 [86] 1997-12-12 (PCT/FR97/02288) [87] 1998-06-18 (WO98/26287) [30] FR (96/15261) 1996-12-12</p>	<p style="text-align: right;">[21] <b>2,272,893</b> [13] A1</p> <p>[51] <b>Int.Cl. 6G10K 11/178</b> [25] EN [54] <b>METHOD AND APPARATUS FOR PROCESSING SOUND</b> [54] <b>PROCEDE ET APPAREIL DESTINES A TRAITER DES SONS</b> [72] KIRJAVAINEN, Kari, FI [71] PANPHONICS OY, FI [85] 1999-05-25 [86] 1997-11-27 (PCT/FI97/00734) [87] 1998-06-04 (WO98/24088) [30] FI (964717) 1996-11-27 [30] FI (970475) 1997-02-04</p>	<p style="text-align: right;">[21] <b>2,272,897</b> [13] A1</p> <p>[51] <b>Int.Cl. 6G06F 17/00</b> [25] EN [54] <b>PERFORMANCE OPTIMIZATIONS FOR COMPUTER NETWORKS USING HTTP</b> [54] <b>OPTIMISATION DES PERFORMANCES POUR DES RESEAUX INFORMATIQUES UTILISANT LE HTTP</b> [72] OESTREICHER, Don, US [72] SINGH, Jagdeep, US [72] BHIDE, Chandrashekhar W., US [71] INTEL CORPORATION, US [85] 1999-05-18 [86] 1997-11-20 (PCT/US97/21305) [87] 1998-05-28 (WO98/22886) [30] US (08/752,500) 1996-11-20</p>
<p style="text-align: right;">[21] <b>2,272,891</b> [13] A1</p> <p>[51] <b>Int.Cl. 6A61K 31/56</b> [25] EN [54] <b>METHOD OF PREVENTING NEURODEGENERATION AND COGNITIVE DYSFUNCTION USING 17.ALPHA.-DIHYDROEQUILENIN</b> [54] <b>PROCEDE DESTINE A PREVENIR LA NEURODEGENERESCENCE ET LE DYSFONCTIONNEMENT COGNITIF A L'AIDE DE LA 17.ALPHA.-DIHYDROEQUILENINE</b> [72] WASHBURN, Scott A., US [72] SHIVELY, Carol Ann, US [71] WAKE FOREST UNIVERSITY, US [85] 1999-05-25 [86] 1997-11-11 (PCT/US97/20279) [87] 1998-06-11 (WO98/24448) [30] US (08/753,988) 1996-12-03</p>	<p style="text-align: right;">[21] <b>2,272,894</b> [13] A1</p> <p>[51] <b>Int.Cl. 6G06F 12/14</b> [25] EN [54] <b>INFORMATION SECURITY METHOD AND APPARATUS</b> [54] <b>PROCEDE ET DISPOSITIF ASSURANT LA SECURITE D'INFORMATIONS</b> [72] DIAMANT, Erez, IL [72] PRESCHER, Amir, IL [71] VOLTAIRE ADVANCED DATA SECURITY LTD., IL [85] 1999-05-18 [86] 1997-11-20 (PCT/IL97/00380) [87] 1998-06-11 (WO98/25372) [30] US (08/754,871) 1996-11-22</p>	<p style="text-align: right;">[21] <b>2,272,898</b> [13] A1</p> <p>[51] <b>Int.Cl. 6H02G 15/068</b> [25] EN [54] <b>STRESS CONTROL FOR TERMINATION OF A HIGH VOLTAGE CABLE</b> [54] <b>COMMANDE DE CONTRAINTE DE TERMINAISON D'UN CABLE HAUTE TENSION</b> [72] LARSON, John T., US [72] WANDMACHER, Robert A., US [72] CHOR, Lawrence C., US [71] MINNESOTA MINING AND MANUFACTURING COMPANY, US [85] 1999-05-25 [86] 1997-03-10 (PCT/US97/04156) [87] 1998-06-25 (WO98/27631) [30] US (08/763,390) 1996-12-16</p>

## Demandes PCT entrant en phase nationale

<p style="text-align: right;">[21] <b>2,272,899</b> [13] A1</p> <p>[51] <b>Int.Cl. 6F02M 31/13</b> [25] EN [54] <b>HEATABLE DEVICE</b> [54] <b>DISPOSITIF CHAUFFABLE</b> [72] KLEINECKE, Uwe, DE [72] TRIFKOVIC, Trivun, DE [72] WELTER, Lothar, DE [71] DAIMLERCHRYSLER AG, DE [85] 1999-05-25 [86] 1997-11-25 (PCT/IB97/01478) [87] 1998-06-04 (WO98/23857) [30] GB (9624613.7) 1996-11-26</p>	<p style="text-align: right;">[21] <b>2,272,901</b> [13] A1</p> <p>[51] <b>Int.Cl. 6G02B 27/09 6G02B 6/26 6G02B 23/26 6G02B 6/28</b> [25] EN [54] <b>METHOD FOR COUPLING LIGHT FROM SINGLE FIBEROPTIC TO A MULTI-FIBER BUNDLE WITH ENHANCED FIELD UNIFORMITY AND BETTER COUPLING EFFICIENCY</b> [54] <b>PROCEDE DE COUPLAGE OPTIQUE DE FIBRE OPTIQUE SIMPLE A FAISCEAU MULTIFIBRE AMELIORANT L'UNIFORMITE DE CHAMP ET LE RENDEMENT DU COUPLAGE</b> [72] LI, Kenneth K., US [72] BRENNER, Douglas M., US [72] CHINGFA, Chen, US [71] COGENT LIGHT TECHNOLOGIES, INC., US [85] 1999-05-25 [86] 1997-10-28 (PCT/US97/19645) [87] 1998-05-28 (WO98/22845) [30] US (08/753,299) 1996-11-22</p>	<p style="text-align: right;">[21] <b>2,272,905</b> [13] A1</p> <p>[51] <b>Int.Cl. 6A61L 27/00</b> [25] EN [54] <b>COLLAGEN MATERIAL AND PROCESS FOR PRODUCING THE SAME</b> [54] <b>MATERIAU COLLAGENE ET SON PROCEDE DE PRODUCTION</b> [72] SHIMIZU, Yasuhiko, JP [71] SHIMIZU, Yasuhiko, JP [71] TAPIC INTERNATIONAL CO., LTD., JP [85] 1999-05-19 [86] 1997-11-19 (PCT/JP97/04205) [87] 1998-05-28 (WO98/22157) [30] JP (308856/1996) 1996-11-20 [30] JP (308857/1996) 1996-11-20 [30] JP (263374/1997) 1997-09-29</p>
<p style="text-align: right;">[21] <b>2,272,900</b> [13] A1</p> <p>[51] <b>Int.Cl. 6A61K 48/00 6C07H 21/00 6C12N 5/00 6C07H 21/04 6C12N 15/09 6C12N 15/63 6C12N 15/79</b> [25] EN [54] <b>AGENT AND METHOD OF TREATMENT FOR DISEASES AND CONDITIONS ASSOCIATED WITH RESPIRATORY AILMENTS AND LUNG INFLAMMATION</b> [54] <b>AGENT ET METHODE DE TRAITEMENT DE MALADIES ET D'ETATS PATHOLOGIQUES ASSOCIES A DES MALAISES RESPIRATOIRES ET A UNE INFLAMMATION PULMONAIRE</b> [72] NYCE, Jonathan W., US [71] EAST CAROLINA UNIVERSITY, US [85] 1999-05-25 [86] 1997-11-26 (PCT/US97/22017) [87] 1998-06-04 (WO98/23294) [30] US (08/757,024) 1996-11-26</p>	<p style="text-align: right;">[21] <b>2,272,902</b> [13] A1</p> <p>[51] <b>Int.Cl. 6G11B 17/22</b> [25] EN [54] <b>CONTINUOUS PLAY BACKGROUND MUSIC SYSTEM</b> [54] <b>SYSTEME DE DIFFUSION CONTINUE DE MUSIQUE DE FOND</b> [72] KRIKORIAN, Thomas M., US [71] KRIKORIAN, Thomas M., US [85] 1999-05-19 [86] 1996-12-12 (PCT/US96/19897) [87] 1998-06-18 (WO98/26416)</p>	<p style="text-align: right;">[21] <b>2,272,906</b> [13] A1</p> <p>[51] <b>Int.Cl. 6B65D 85/16 6B65D 5/00</b> [25] EN [54] <b>IMPROVED PACKAGE FOR COMPRESSIBLE PRODUCTS AND METHOD FOR PRODUCING SAME</b> [54] <b>EMBALLAGE AMELIORE POUR PRODUITS COMPRESSIBLES ET SON PROCEDE DE PRODUCTION</b> [72] BURDA, Timothy Paul, US [71] THE PROCTER &amp; GAMBLE COMPANY, US [85] 1999-05-25 [86] 1997-11-19 (PCT/US97/21158) [87] 1998-06-11 (WO98/24711) [30] US (08/756,754) 1996-11-26</p>
<p style="text-align: right;">[21] <b>2,272,904</b> [13] A1</p> <p>[51] <b>Int.Cl. 6H04Q 7/22 6H04Q 7/28</b> [25] EN [54] <b>METHOD AND APPARATUS FOR PROVIDING A DISPATCH SYSTEM IN A CELLULAR RADIOTELEPHONE SYSTEM</b> [54] <b>PROCEDE ET APPAREIL PERMETTANT D'OBTENIR UN SYSTEME DE REPARTITION DANS UN SYSTEME DE RADIOTELEPHONES CELLULAIRES</b> [72] VALENTINE, Eric, US [72] ALPEROVICH, Vladimir, US [71] ERICSSON INC., US [85] 1999-05-25 [86] 1997-11-21 (PCT/US97/22235) [87] 1998-06-04 (WO98/24252) [30] US (08/755,171) 1996-11-25</p>	<p style="text-align: right;">[21] <b>2,272,907</b> [13] A1</p> <p>[51] <b>Int.Cl. 6D06M 15/61 6D01F 11/04 6H01B 1/12</b> [25] EN [54] <b>PREPARATION OF FIBERS CONTAINING INTRINSICALLY CONDUCTIVE POLYMERS</b> [54] <b>PREPARATION DE FIBRES CONTENANT DES POLYMERES INTRINSEQUEMENT CONDUCTEURS</b> [72] KINLEN, Patrick J., US [72] DING, Yiwei, US [72] FISHER, W. Keith, US [71] ZIPPERLING KESSLER &amp; CO.(GMBH &amp; CO.), DE [85] 1999-05-20 [86] 1998-09-22 (PCT/EP98/05992) [87] 1999-04-01 (WO99/15725) [30] US (08/935,435) 1997-09-23</p>	<p style="text-align: right;">[21] <b>2,272,907</b> [13] A1</p> <p>[51] <b>Int.Cl. 6D06M 15/61 6D01F 11/04 6H01B 1/12</b> [25] EN [54] <b>PREPARATION OF FIBERS CONTAINING INTRINSICALLY CONDUCTIVE POLYMERS</b> [54] <b>PREPARATION DE FIBRES CONTENANT DES POLYMERES INTRINSEQUEMENT CONDUCTEURS</b> [72] KINLEN, Patrick J., US [72] DING, Yiwei, US [72] FISHER, W. Keith, US [71] ZIPPERLING KESSLER &amp; CO.(GMBH &amp; CO.), DE [85] 1999-05-20 [86] 1998-09-22 (PCT/EP98/05992) [87] 1999-04-01 (WO99/15725) [30] US (08/935,435) 1997-09-23</p>

## PCT Applications Entering the National Phase

[21] **2,272,908**  
[13] A1

[51] **Int.Cl. 6B65H 18/20 6B65H 27/00 6B65H 18/14**  
[25] EN  
[54] **WINDING DEVICE FOR A PAPER WEB OR EQUIVALENT AND A TWO-DRUM WINDER**  
[54] **DISPOSITIF DE REBOBINAGE DE BANDE DE PAPIER OU EQUIVALENT ET REBOBINEUSE A DEUX ROULEAUX PORTEURS**  
[72] JORKAMA, Marko, FI  
[72] KOUTONEN, Pauli, FI  
[72] NISKANEN, Keikki, FI  
[71] VALMET CORPORATION, FI  
[85] 1999-05-25  
[86] 1997-11-26 (PCT/FI97/00723)  
[87] 1998-06-04 (WO98/23514)  
[30] FI (964756) 1996-11-29

[21] **2,272,909**  
[13] A1

[51] **Int.Cl. 6A23K 1/16 6A23L 1/10 6A23K 1/165 6A23L 1/185**  
[25] EN  
[54] **FOOD-INDUCED ANTISECRETORY PROTEINS**  
[54] **PROTEINES ANTISECRETICES INDUITE PAR L'ALIMENTATION**  
[72] GORANSSON, Leif, SE  
[72] LONNROTH, Ivar, SE  
[72] LANGE, Stefan, SE  
[71] RURAL PATENT SVENSKA AB, SE  
[85] 1999-05-20  
[86] 1997-11-14 (PCT/SE97/01918)  
[87] 1998-05-28 (WO98/21978)  
[30] SE (9604251-0) 1996-11-20

[21] **2,272,910**  
[13] A1

[51] **Int.Cl. 6B65H 39/16 6B23Q 1/28 6B23Q 5/34**  
[25] EN  
[54] **RIBBON DISPENSING GUIDE ARM AND POSITIONING DEVICE**  
[54] **BRAS DE GUIDAGE DISTRIBUTEUR DE RUBAN ET DISPOSITIF DE POSITIONNEMENT**  
[72] HARTMAN, James N., US  
[71] LINEAR PRODUCTS, INC., US  
[85] 1999-05-25  
[86] 1997-12-11 (PCT/US97/23184)  
[87] 1998-06-18 (WO98/25847)  
[30] US (08/766,377) 1996-12-12

[21] **2,272,911**  
[13] A1

[51] **Int.Cl. 6F16L 41/02 6F15D 1/14**  
[25] EN  
[54] **FLOW SPLITTING DEVICE FOR WEB PROFILE CONTROL STOCK DILUTION SYSTEM**  
[54] **DISPOSITIF DE SEPARATION DE DEBIT DESTINE A UN SYSTEME DE DILUTION DE PATE SERVANT A CONTROLER LE PROFIL D'UNE BANDE CONTINUE**  
[72] LI, Alfred C., US  
[72] ROGERS, Thomas D., US  
[72] HERGERT, Richard E., US  
[72] WYWIALOWSKI, Frank J., US  
[72] NEILL, Eugene B., US  
[71] BELOIT TECHNOLOGIES, INC., US  
[85] 1999-05-21  
[86] 1997-10-24 (PCT/US97/19216)  
[87] 1998-06-11 (WO98/25069)  
[30] US (08/761,183) 1996-12-03

[21] **2,272,912**  
[13] A1

[51] **Int.Cl. 6G05B 15/00**  
[25] EN  
[54] **METHOD FOR CONTROLLING DEVICES, A DEVICE CONTROLLER AND A CONVEYING SYSTEM**  
[54] **PROCEDE PERMETTANT DE COMMANDER DES APPAREILS, ORGANE DE COMMANDE D'APPAREILS ET SYSTEME D'ACHEMINEMENT**  
[72] LEM, Hans J., US  
[72] BOWMAN, Richard J., US  
[71] QUANTUM CONVEYOR SYSTEMS, INC., US  
[85] 1999-05-21  
[86] 1997-11-21 (PCT/US97/22531)  
[87] 1998-05-28 (WO98/22857)  
[30] US (08/752,587) 1996-11-21

[21] **2,272,913**  
[13] A1

[51] **Int.Cl. 6A45D 29/00 6B32B 7/00 6B32B 27/00 6D04B 1/00 6D03D 3/00 6D03D 15/00 6D03D 17/00 6D03D 25/00 6D04H 1/00 6D04H 3/00 6D04H 5/00 6D04H 11/00 6D04H 13/00 6B05D 1/02 6B05D 3/04 6A61K 7/04 6C08K 3/04 6A61K 7/06 6B05D 3/10 6A45D 29/18 6B26B 13/22 6B05D 1/28 6B32B 27/40 6D04H 1/58**  
[25] EN  
[54] **A NAILWRAP COMPOSITION AND A METHOD OF APPLYING A NAILWRAP TO A HUMAN NAIL**  
[54] **COMPOSITION DE PLACAGE DES ONGLES ET PROCEDE D'APPLICATION SUR UN ONGLE HUMAIN**  
[72] ENGELMANN, Bernd, US  
[72] SIRDESAI, Sunil J., US  
[72] SCHAEFFER, George, US  
[71] OPI PRODUCTS, INC., US  
[85] 1999-05-21  
[86] 1997-11-21 (PCT/US97/21445)  
[87] 1998-05-28 (WO98/21999)  
[30] US (08/754,397) 1996-11-21

[21] **2,272,914**  
[13] A1

[51] **Int.Cl. 6B25D 1/00 6B25C 11/00**  
[25] EN  
[54] **AN IMPROVED STRIKING TOOL**  
[54] **OUTIL DE PERCUSSION PERFECTIONNEE**  
[72] COONRAD, Todd Douglas, US  
[71] COONRAD, Todd Douglas, US  
[85] 1999-05-21  
[86] 1997-03-28 (PCT/US97/05158)  
[87] 1997-10-02 (WO97/35689)  
[30] US (08/624,178) 1996-03-28

## Demandes PCT entrant en phase nationale

<p style="text-align: right;">[21] <b>2,272,915</b> [13] A1</p> <p>[51] <b>Int.Cl. 6C07D 471/04 6A61K 31/505</b> [25] EN [54] <b>HETERO-BIARYL-PYRIDOQUINAZOLINONE DERIVATIVES AS ANTI-CANCER AGENTS</b> [54] <b>DERIVES HETERO-BIARYL-PYRIDOQUINAZOLINONE COMME AGENTS ANTICANCEREUX</b> [72] ZHANG, Nan, US [72] TROVA, Michael Peter, US [71] AMERICAN CYANAMID COMPANY, US [85] 1999-05-21 [86] 1997-11-24 (PCT/US97/22502) [87] 1998-06-04 (WO98/23617) [30] US (08/755,845) 1996-11-26</p>	<p style="text-align: right;">[21] <b>2,272,918</b> [13] A1</p> <p>[51] <b>Int.Cl. 6G06F 17/60 6G06F 17/18</b> [25] EN [54] <b>METHOD OF MAINTAINING COMPONENTS SUBJECT TO FATIGUE FAILURE</b> [54] <b>PROCEDE DESTINE A ENTREtenir DES ELEMENTS SUJETS A UNE RUPTURE PAR FATIGUE</b> [72] HAO, Beilene, US [72] EASTMAN, Donald G., US [72] ELGIN, Richard L., US [71] SUNDSTRAND CORPORATION, US [85] 1999-05-21 [86] 1997-11-26 (PCT/US97/21628) [87] 1998-06-04 (WO98/24042) [30] US (60/031,507) 1996-11-27</p>	<p style="text-align: right;">[21] <b>2,272,921</b> [13] A1</p> <p>[51] <b>Int.Cl. 6H04N 7/167 6H04N 7/16</b> [25] EN [54] <b>METHOD OF PROCESSING ENCRYPTED VIDEO DATA FOR GENERATING DECRYPTED PROGRAM DATA</b> [54] <b>PROCEDE DE TRAITEMENT DE DONNEES VIDEO CHIFFREES POUR GENERER DES DONNEES DE PROGRAMME DECHIFFREES</b> [72] BLATTER, Harold, US [72] HORLANDER, Thomas Edward, US [72] DEISS, Michael Scott, US [72] BRIDGEWATER, Kevin Elliott, US [71] THOMSON CONSUMER ELECTRONICS, INC., US [85] 1999-05-21 [86] 1997-10-28 (PCT/US97/19374) [87] 1998-06-04 (WO98/24236) [30] US (08/762,483) 1996-11-27</p>
<p style="text-align: right;">[21] <b>2,272,916</b> [13] A1</p> <p>[51] <b>Int.Cl. 6C07D 471/04 6A61K 31/505</b> [25] EN [54] <b>BIARYL-PYRIDOQUINAZOLINONE DERIVATIVES AS ANTI-CANCER AGENTS</b> [54] <b>DERIVES BIARYL-PYRIDOQUINAZOLINONE COMME AGENTS ANTICANCEREUX</b> [72] KITCHEN, Douglas Bruce, US [72] TROVA, Michael Peter, US [72] ZHANG, Nan, US [71] AMERICAN CYANAMID COMPANY, US [85] 1999-05-21 [86] 1997-11-24 (PCT/US97/22501) [87] 1998-06-04 (WO98/23616) [30] US (08/756,860) 1996-11-26</p>	<p style="text-align: right;">[21] <b>2,272,919</b> [13] A1</p> <p>[51] <b>Int.Cl. 6G06K 19/00</b> [25] EN [54] <b>CREDIT CARD WITH MAGNIFYING LENS</b> [54] <b>CARTE DE CREDIT DOTE E D'UNE LOUPE</b> [72] FINKELSTEIN, Alan, US [72] GSCHWANDTNER, Ron, US [71] FINKELSTEIN, Alan, US [85] 1999-05-21 [86] 1997-11-24 (PCT/US97/21755) [87] 1998-06-04 (WO98/24054) [30] US (08/758,640) 1996-11-27</p>	<p style="text-align: right;">[21] <b>2,272,922</b> [13] A1</p> <p>[51] <b>Int.Cl. 6H04N 7/167</b> [25] EN [54] <b>A DECODING APPARATUS/METHOD AND DATA FORMAT FOR PROCESSING AND STORING ENCRYPTED VIDEO DATA</b> [54] <b>APPAREIL/PROCEDE DE DECODAGE ET FORMAT DE DONNEES UTILISES DANS LE TRAITEMENT ET LE STOCKAGE DE DONNEES VIDEO CODEES</b> [72] BRIDGEWATER, Kevin Elliott, US [72] HORLANDER, Thomas Edward, US [72] BLATTER, Harold, US [72] DEISS, Michael Scott, US [71] THOMSON CONSUMER ELECTRONICS, INC., US [85] 1999-05-21 [86] 1997-10-28 (PCT/US97/19375) [87] 1998-06-04 (WO98/24237) [30] US (08/762,488) 1996-11-27</p>
<p style="text-align: right;">[21] <b>2,272,917</b> [13] A1</p> <p>[51] <b>Int.Cl. 6A61B 8/06</b> [25] EN [54] <b>ULTRASOUND SCANNING</b> [54] <b>BALAYAGE ULTRASONS</b> [72] KITNEY, Richard Ian, GB [72] HEART, Gill, GB [71] IMPERIAL COLLEGE OF SCIENCE TECHNOLOGY AND MEDICINE, GB [85] 1999-05-21 [86] 1997-11-27 (PCT/GB97/03259) [87] 1998-06-04 (WO98/23210) [30] GB (9624970.1) 1996-11-29</p>	<p style="text-align: right;">[21] <b>2,272,920</b> [13] A1</p> <p>[51] <b>Int.Cl. 6G06K 19/06 6G06K 19/12</b> [25] EN [54] <b>A RECORD CARRIER AND METHOD OF LABELLING AN ARTICLE OF VALUE</b> [54] <b>SUPPORT D'ENREGISTREMENT ET PROCEDE D'ETIQUETAGE D'UN ARTICLE DE VALEUR</b> [72] GREEN, Ian MacDonald, GB [71] THORN SECURE SCIENCE LIMITED, GB [85] 1999-05-21 [86] 1997-11-14 (PCT/GB97/03139) [87] 1998-06-04 (WO98/24055) [30] GB (9624396.9) 1996-11-23</p>	



## PCT Applications Entering the National Phase

<p style="text-align: right;">[21] <b>2,272,923</b> [13] A1</p> <p>[51] <b>Int.Cl. 6E21B 43/00</b> [25] EN [54] <b>METHOD AND DEVICE FOR PRODUCTION OF HYDROCARBONS</b> [54] <b>PROCEDE ET DISPOSITIF DE PRODUCTION D'HYDROCARBURES</b> [72] GANELIN, Boris, US [71] TECHNOLOGY COMMERCIALIZATION CORPORATION, US [85] 1999-05-21 [86] 1997-11-12 (PCT/US97/22071) [87] 1998-06-04 (WO98/23844) [30] US (08/755,642) 1996-11-25</p>	<p style="text-align: right;">[21] <b>2,272,925</b> [13] A1</p> <p>[51] <b>Int.Cl. 6A01N 1/02 6A01N 63/00</b> [25] EN [54] <b>METHOD FOR CONVERSION OF BLOOD TYPE</b> [54] <b>METHODE POUR CONVERTIR LE TYPE SANGUIN</b> [72] HURST, Rosa, US [72] LENNY, Leslie, US [72] GOLDSTEIN, Jack, US [71] ZYMEQUEST, INC., US [71] NEW YORK BLOOD CENTER, US [85] 1999-05-21 [86] 1997-11-19 (PCT/US97/21167) [87] 1998-05-28 (WO98/21944) [30] US (08/753,212) 1996-11-21</p>	<p style="text-align: right;">[21] <b>2,272,928</b> [13] A1</p> <p>[51] <b>Int.Cl. 6B01J 13/00</b> [25] EN [54] <b>ORGANICALLY MODIFIED AEROGELS, METHOD FOR THEIR PRODUCTION BY SURFACE MODIFICATION OF THE AQUEOUS GEL WITHOUT PREVIOUS SOLVENT EXCHANGE AND SUBSEQUENT DRYING AND THE USE THEREOF</b> [54] <b>AEROGELS MODIFIES ORGANIQUEMENT, LEUR PROCEDE DE PREPARATION PAR MODIFICATION EN SURFACE DU GEL AQUEUX SANS ECHANGE DE SOLVANT PREALABLE ET SECHAGE ULTERIEUR, AINSI QUE LEUR UTILISATION</b> [72] SCHWERTFEGGER, Fritz, DE [72] FRANK, Dierk, DE [71] CABOT CORPORATION, US [85] 1999-05-25 [86] 1997-11-26 (PCT/EP97/06595) [87] 1998-06-04 (WO98/23366) [30] DE (196 48 798.6) 1996-11-26</p>
<p style="text-align: right;">[21] <b>2,272,924</b> [13] A1</p> <p>[51] <b>Int.Cl. 6G01N 33/569 6G01N 33/574 6C12Q 1/68</b> [25] EN [54] <b>A WHOLE BLOOD/MITOGEN ASSAY FOR THE EARLY DETECTION OF A SUBJECT WITH CANCER AND KIT</b> [54] <b>PROCEDE ET TROUSSE DE DOSAGE DU SANG ENTIER ET DU FACTEUR MITOGENE SERVANT A EFFECTUER LA DETECTION PRECOCE DU CANCER CHEZ UN SUJET</b> [72] JEHUDA COHEN, Tamar, IL [71] SHILOOV MEDICAL TECHNOLOGIES LTD., IL [85] 1999-05-21 [86] 1997-11-21 (PCT/IL97/00381) [87] 1998-05-28 (WO98/22825) [30] US (08/755,232) 1996-11-22 [30] US (08/755,240) 1996-11-22 [30] US (08/755,287) 1996-11-22 [30] US (08/755,412) 1996-11-22 [30] US (08/755,413) 1996-11-22 [30] US (08/755,414) 1996-11-22 [30] US (08/755,415) 1996-11-22</p>	<p style="text-align: right;">[21] <b>2,272,926</b> [13] A1</p> <p>[51] <b>Int.Cl. 6B65D 85/57</b> [25] EN [54] <b>COMPACT DISC FOLDER BOOKLET</b> [54] <b>LIVRET POUR POCHEtte DE DISQUE COMPACT</b> [72] PETTEY, Thomas J., US [71] WHITE THORN, L.L.C., US [85] 1999-05-21 [86] 1997-11-18 (PCT/US97/21079) [87] 1998-05-28 (WO98/22370) [30] US (08/753,221) 1996-11-21 [30] US (08/821,337) 1997-03-20 [30] US (08/962,376) 1997-10-31</p>	<p style="text-align: right;">[21] <b>2,272,929</b> [13] A1</p> <p>[51] <b>Int.Cl. 6E05D 11/10</b> [25] EN [54] <b>SPRING HINGE</b> [54] <b>CHARNIERE A RESSORT</b> [72] D'ELIA, Antonio, IT [71] D'ELIA, Antonio, IT [85] 1999-05-25 [86] 1997-11-19 (PCT/IT97/00285) [87] 1998-06-04 (WO98/23835) [30] IT (CZ96A000009) 1996-11-26</p>
<p style="text-align: right;">[21] <b>2,272,927</b> [13] A1</p> <p>[51] <b>Int.Cl. 6C07D 295/08 6C07D 295/02 6A61K 31/495</b> [25] EN [54] <b>DIMESYLATE SALTS OF NEUROPEPTIDE Y LIGANDS</b> [54] <b>SELS DIMESYLATE DE LIGANDS DE NEUROPEPTIDES Y</b> [72] WHIPPLE, Laurie A., US [72] BROSTROM, Lyle R., US [72] KORD, Alireza S., US [72] ALLEN, Douglas J. M., US [71] PFIZER INC., US [85] 1999-05-25 [86] 1997-11-19 (PCT/IB97/01465) [87] 1998-06-04 (WO98/23603) [30] US (60/031,815) 1996-11-26</p>	<p style="text-align: right;">[21] <b>2,272,930</b> [13] A1</p> <p>[51] <b>Int.Cl. 6H04B 7/08</b> [25] EN [54] <b>COCHANNEL SIGNAL PROCESSING SYSTEM</b> [54] <b>SYSTEME DE TRAITEMENT DE SIGNAUX DANS LE MEME CANAL</b> [72] STEARNS, Stephen Deane, US [72] DOGAN, Mithat Can, US [71] TRW INC., US [85] 1999-05-25 [86] 1996-11-26 (PCT/US96/18867) [87] 1998-06-04 (WO98/24192)</p>	

## Demandes PCT entrant en phase nationale

<p style="text-align: right;">[21] <b>2,272,932</b> [13] A1</p> <p>[51] <b>Int.Cl. 6A61K 31/155 6A01N 1/02 6A61K 31/045 6C07D 249/14 6C07C 281/16 6C07D 207/335 6C07D 213/42 6C07D 307/52</b></p> <p>[25] EN [54] <b>USE OF HYDROXYGUANIDINES</b> [54] <b>UTILISATION D'HYDROXYGUANIDINES</b></p> <p>[72] DAMBROVA, Maija, SE [72] WIKBERG, Jarl, SE [72] UHLÉN, Staffan, SE [72] PRUSIS, Peteris, SE [71] WAPHARM AB, SE [85] 1999-05-25 [86] 1997-11-21 (PCT/SE97/01969) [87] 1998-06-04 (WO98/23267) [30] SE (9604348-4) 1996-11-26</p>	<p style="text-align: right;">[21] <b>2,272,934</b> [13] A1</p> <p>[51] <b>Int.Cl. 6C08K 13/02 6C08L 75/04</b></p> <p>[25] EN [54] <b>FLAME PROOFING AGENTS FOR POLYURETHANES, A METHOD FOR THE PRODUCTION OF FLAME PROOF POLYURETHANE PLASTICS AND THEIR USE IN RAIL VEHICLE CONSTRUCTION</b> [54] <b>AGENT IGNIFUGEANT POUR POLYURETHANES, PROCEDE DE PRODUCTION DE MATIERES PLASTIQUES DU TYPE POLYURETHANNE IGNIFUGEES, ET UTILISATION DE CELLES-CIDANS LA CONSTRUCTION DE VEHICULESSUR RAIL</b></p> <p>[72] ZAPPEL, Ingo, DE [72] AVAR, Geza, DE [72] RUCKES, Andreas, DE [72] MUNZMAY, Thomas, DE [71] BAYER AKTIENGESELLSCHAFT, DE [85] 1999-05-25 [86] 1997-11-17 (PCT/EP97/06393) [87] 1998-06-04 (WO98/23678) [30] DE (196 49 279.3) 1996-11-28</p>	<p style="text-align: right;">[21] <b>2,272,936</b> [13] A1</p> <p>[51] <b>Int.Cl. 6B65C 3/16 6B65C 9/00</b></p> <p>[25] EN [54] <b>METHOD AND APPARATUS FOR LABELLING CONTAINERS WITH AIR-BLOW SUPPORTED LABEL TRANSFER</b> [54] <b>PROCEDE ET DISPOSITIF D'ETIQUETAGE DE RECIPIENTS AU MOYEN D'UN TRANSFERT D'ETIQUETTE A SUPPORT PAR AIR SOUFFLE</b></p> <p>[72] HINTON, Gaylen Roy, US [71] TRINE LABELING SYSTEMS, INC., US [85] 1999-05-25 [86] 1998-01-29 (PCT/US98/01715) [87] 1998-08-06 (WO98/33711) [30] US (08/794,784) 1997-02-03</p>
<p style="text-align: right;">[21] <b>2,272,933</b> [13] A1</p> <p>[51] <b>Int.Cl. 6B01J 20/04 6A61M 16/22</b></p> <p>[25] EN [54] <b>CARBON DIOXIDE ABSORBENT IN ANAESTHESIOLOGY</b> [54] <b>ABSORBANT DE DIOXYDE DE CARBONE UTILISE EN ANESTHESIOLOGIE</b></p> <p>[72] ARMSTRONG, John Raymond, GB [72] MURRAY, James, GB [71] ARMSTRONG MEDICAL LIMITED, GB [85] 1999-05-25 [86] 1997-11-25 (PCT/EP97/06698) [87] 1998-06-04 (WO98/23370) [30] GB (9624549.3) 1996-11-25 [30] GB (9723990.9) 1997-11-14</p>	<p style="text-align: right;">[21] <b>2,272,935</b> [13] A1</p> <p>[51] <b>Int.Cl. 6A63B 53/10 6A63B 53/12</b></p> <p>[25] EN [54] <b>GOLF CLUB SHAFT HAVING WAVE SHAPED REINFORCED PART</b> [54] <b>SHAFT DE CLUB DE GOLF DOTE D'UNE PARTIE RENFORCEE ET ONDULEE</b></p> <p>[72] RYU, Suk-ho, KR [71] WAVEX CORPORATION, CA [85] 1999-05-25 [86] 1997-11-26 (PCT/US97/21832) [87] 1998-06-04 (WO98/23338) [30] KR (1996/58614) 1996-11-28 [30] US (08/760,079) 1996-12-04 [30] US (60/047,697) 1997-05-23 [30] US (08/896,722) 1997-07-18</p>	<p style="text-align: right;">[21] <b>2,272,937</b> [13] A1</p> <p>[51] <b>Int.Cl. 6G06F 19/00 6G06F 17/60</b></p> <p>[25] EN [54] <b>ORDER DATA MANAGEMENT SYSTEM</b> [54] <b>SYSTEME PERMETTANT DE GERER DES DONNEES DE COMMANDE</b></p> <p>[72] SANO, Kouichi, JP [71] KABUSHIKI KAISHA TEC, JP [85] 1999-05-26 [86] 1998-09-29 (PCT/JP98/04361) [87] 1999-04-08 (WO99/17243) [30] JP (9/267159) 1997-09-30 [30] JP (10/243668) 1998-08-28</p>
		<p style="text-align: right;">[21] <b>2,272,939</b> [13] A1</p> <p>[51] <b>Int.Cl. 6A61B 6/00 6G01T 1/24</b></p> <p>[25] EN [54] <b>A DIGITAL ARRAY FOR RADIOGRAPHIC IMAGING</b> [54] <b>ENSEMBLE NUMERIQUE D'IMAGERIE RADIOGRAPHIQUE</b></p> <p>[72] LEE, Denny L. Y., US [72] PERROTTO, Joseph A., US [72] JEROMIN, Lothar S., US [72] CROWELL, John A., US [71] DIRECT RADIOGRAPHY COMPANY, US [85] 1999-05-26 [86] 1997-11-05 (PCT/US97/20008) [87] 1998-06-04 (WO98/23975) [30] US (08/756,041) 1996-11-26</p>

## PCT Applications Entering the National Phase

<p style="text-align: right;">[21] <b>2,272,940</b> [13] A1</p> <p>[51] <b>Int.Cl. 6G02C 7/04</b> [25] EN [54] <b>CONTACT LENSES PROVIDING IMPROVED VISUAL ACUITY</b> [54] <b>LENTILLES DE CONTACT AMELIORANT L'ACUITE VISUELLE</b> [72] COX, Ian G., US [72] BIDDLE, Graham W., US [72] DeRYKE, Kevin J., US [72] CHAPMAN, Judith E., US [72] COMSTOCK, Timothy L., US [71] BAUSCH &amp; LOMB INCORPORATED, US [85] 1999-05-26 [86] 1997-11-17 (PCT/US97/21473) [87] 1998-06-11 (WO98/25174) [30] US (08/760,789) 1996-12-05</p>	<p style="text-align: right;">[21] <b>2,272,942</b> [13] A1</p> <p>[51] <b>Int.Cl. 6A61L 27/00 6A61L 31/00 6A61L 33/00</b> [25] EN [54] <b>BONDING BIO-ACTIVE MATERIALS TO SUBSTRATE SURFACES OF MEDICAL DEVICES VIA HYDROPHILIC SPACERS</b> [54] <b>LIAISON DE MATERIAUX BIOACTIFS A LA SURFACE DE SUBSTRATS D'INSTRUMENTS MEDICAUX PAR L'INTERMEDIAIRE D'ESPACEURS HYDROPHILES</b> [72] PATNAIK, Birendra K., US [71] BOSTON SCIENTIFIC LIMITED, BB [85] 1999-05-21 [86] 1997-11-18 (PCT/US97/21215) [87] 1998-06-04 (WO98/23308) [30] US (08/755,187) 1996-11-25</p>	<p style="text-align: right;">[21] <b>2,272,948</b> [13] A1</p> <p>[51] <b>Int.Cl. 6H04Q 7/32</b> [25] EN [54] <b>USING TWO SIM CARDS WITH SAME MSISDN NUMBER</b> [54] <b>UTILISATION DE DEUX CARTES DE MODULE D'IDENTIFICATION D'ABONNE AVEC LE MEME NUMERO NRIS D'ABONNE MOBILE</b> [72] UUSITALO, Markku, FI [71] NOKIA TELECOMMUNICATIONS OY, FI [85] 1999-05-21 [86] 1997-11-24 (PCT/FI97/00714) [87] 1998-06-04 (WO98/24257) [30] FI (964732) 1996-11-27</p>
<p style="text-align: right;">[21] <b>2,272,941</b> [13] A1</p> <p>[51] <b>Int.Cl. 6A61K 31/55 6A61K 31/195 6A61K 31/40 6A61K 31/41 6A61K 31/485</b> [25] EN [54] <b>ATTENUATION OF OPIOID TOLERANCE BY INHIBITING INDUCIBLE NITRIC OXIDE SYNTHASE PATHWAYS IN THE TREATMENT OF PAIN</b> [54] <b>ATTENUATION DE LA TOLERANCE AUX OPIOIDES PAR INHIBITION DES MECANISMES D'ACTION DE LA MONOXYDE D'AZOTE SYNTHETASE INDUCTIBLE, DANS LE TRAITEMENT DE LA DOULEUR</b> [72] SALVEMINI, Daniela, US [71] G.D. SEARLE &amp; CO., US [85] 1999-05-26 [86] 1998-01-06 (PCT/US98/00006) [87] 1998-07-16 (WO98/30220) [30] US (08/781,814) 1997-01-09</p>	<p style="text-align: right;">[21] <b>2,272,944</b> [13] A1</p> <p>[51] <b>Int.Cl. 6A61L 27/00 6A61L 29/00 6A61L 31/00 6A61L 33/00 6C08G 18/10</b> [25] EN [54] <b>PROCESS FOR PREPARING POLYURETHANE-PEO-HEPARIN COATING COMPOSITIONS</b> [54] <b>PROCEDE DE PREPARATION DE COMPOSITIONS D'ENROBAGE DE POLYURETHANE-PEO-HEPARINE CONTENANT DE L'HEPARINE LIEE PAR COVALENCE</b> [72] PATNAIK, Birendra K., US [71] BOSTON SCIENTIFIC LIMITED, BB [85] 1999-05-21 [86] 1997-11-18 (PCT/US97/21212) [87] 1998-06-04 (WO98/23307) [30] US (08/755,190) 1996-11-25</p>	<p style="text-align: right;">[21] <b>2,272,950</b> [13] A1</p> <p>[51] <b>Int.Cl. 6A46D 1/00 6A46B 11/00</b> [25] EN [54] <b>METHOD OF MAKING A TOOTHBRUSH</b> [54] <b>PROCEDE DE PRODUCTION D'UNE BROSSE A DENTS</b> [72] SPENCER, Jean L., US [71] GILLETTE CANADA INC., CA [85] 1999-05-21 [86] 1997-10-27 (PCT/US97/19234) [87] 1998-06-11 (WO98/24341) [30] US (753,927) 1996-12-03</p>
<p style="text-align: right;">[21] <b>2,272,947</b> [13] A1</p> <p>[51] <b>Int.Cl. 6A61F 2/06</b> [25] EN [54] <b>MODULAR ENDOPROSTHESIS</b> [54] <b>ENDOPROTHESE MODULAIRE</b> [72] WEISER, Michael F., US [72] DWYER, Clifford J., US [72] KUJAWSKI, Dennis, US [72] ROBINSON, Timothy, US [71] C.R. BARD, INC., US [85] 1999-05-21 [86] 1997-11-13 (PCT/US97/21211) [87] 1998-06-04 (WO98/23242) [30] US (08/756,061) 1996-11-25</p>	<p style="text-align: right;">[21] <b>2,272,952</b> [13] A1</p> <p>[51] <b>Int.Cl. 6C07D 209/30 6C07D 403/06 6C07D 403/12 6A61K 31/40</b> [25] EN [54] <b>SECO PRECURSORS OF CYCLOPROPYLINDOLINES AND THEIR USE AS PRODRUGS</b> [54] <b>PRECURSEURS SECO DE CYCLOPROPYLINDOLINES ET LEUR UTILISATION EN TANT QUE PROMEDICAMENTS</b> [72] TERCEL, Moana, NZ [72] DENNY, William Alexander, NZ [72] MILBANK, Jared, NZ [72] ATWELL, Graham John, NZ [71] CANCER RESEARCH CAMPAIGN TECHNOLOGY LIMITED, GB [85] 1999-05-21 [86] 1997-12-12 (PCT/NZ97/00166) [87] 1998-06-18 (WO98/25898) [30] GB (9625913.0) 1996-12-13</p>	

## Demandes PCT entrant en phase nationale

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[21] **2,272,953**  
[13] A1

[51] **Int.Cl. 6B23K 9/09**  
[25] EN  
[54] **METHOD AND DEVICE FOR PULSED ARC WELDING**  
[54] **PROCEDE ET DISPOSITIF DE SOUDAGE A L'ARC EN COURANT PULSE**  
[72] BRIAND, Francis, FR  
[72] PLOTTIER, Gérard, FR  
[71] LA SOUDURE AUTOGENE FRANÇAISE, FR  
[85] 1999-05-21  
[86] 1997-11-18 (PCT/FR97/02070)  
[87] 1998-05-28 (WO98/22247)  
[30] FR (96/14315) 1996-11-22

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[21] **2,272,954**  
[13] A1

[51] **Int.Cl. 6G01N 29/08 6G01N 29/10**  
[25] EN  
[54] **METHOD AND SYSTEM FOR PROCESSING MEASUREMENT SIGNALS TO OBTAIN A VALUE FOR A PHYSICAL PARAMETER**  
[54] **PROCEDE ET SYSTEME DE TRAITEMENT DE SIGNAUX DE MESURE POUR L'OBTENTION D'UNE VALEUR CONCERNANT UN PARAMETRE PHYSIQUE**  
[72] LaPLANT, Frederick P., US  
[72] DIXON, John W., US  
[72] WHITE, Jeffrey S., US  
[71] AUTOSPECT, INC., US  
[85] 1999-05-21  
[86] 1997-11-21 (PCT/US97/21308)  
[87] 1998-05-28 (WO98/22814)  
[30] US (60/031,717) 1996-11-22  
[30] US (60/032,006) 1996-11-22

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[21] **2,272,956**  
[13] A1

[51] **Int.Cl. 6G01N 21/00**  
[25] EN  
[54] **PHYSICAL PARAMETER MEASURING APPARATUS AND METHOD THEREOF**  
[54] **APPAREIL DE MESURE D'UN PARAMETRE PHYSIQUE ET PROCEDE ASSOCIE**  
[72] DIXON, John W., US  
[72] WHITE, Jeffrey S., US  
[72] LaPLANT, Frederick P., US  
[71] AUTOSPECT, INC., US  
[85] 1999-05-21  
[86] 1997-11-21 (PCT/US97/21307)  
[87] 1998-05-28 (WO98/22801)  
[30] US (60/031,717) 1996-11-22  
[30] US (60/032,006) 1996-11-22

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[21] **2,272,957**  
[13] A1

[51] **Int.Cl. 6H01R 17/12 6H01R 9/05**  
[25] EN  
[54] **CONNECTION SLEEVE FOR COAXIAL CONNECTORS**  
[54] **MANCHON DE RACCORDEMENT POUR CONNECTEURS COAXIAUX**  
[72] DI MARIO, Umberto, IT  
[71] MICROPROJECT DI CAPANI L. & C.S.N.C., IT  
[85] 1999-05-26  
[86] 1996-11-29 (PCT/IT96/00236)  
[87] 1998-06-04 (WO98/24155)

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[21] **2,272,958**  
[13] A1

[51] **Int.Cl. 6G06K 9/00**  
[25] EN  
[54] **AN AUTOMATED DOCUMENT PROCESSING SYSTEM USING FULL IMAGE SCANNING**  
[54] **SYSTEME DE TRAITEMENT AUTOMATISE DE DOCUMENTS PAR NUMERISATION DE L'IMAGE ENTIERE**  
[72] JONES, John E., US  
[72] MENNIE, Douglas U., US  
[72] JONES, William J., US  
[71] CUMMINS-ALLISON CORP., US  
[85] 1999-05-26  
[86] 1997-11-21 (PCT/US97/21548)  
[87] 1998-06-04 (WO98/24052)  
[30] US (60/031,604) 1996-11-27

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[21] **2,272,959**  
[13] A1

[51] **Int.Cl. 6H04Q 7/22 6H04Q 7/38**  
[25] EN  
[54] **SYSTEM AND METHOD OF PROVIDING A MOBILE STATION'S SERVICE SUPPORT INFORMATION TO A RADIO TELECOMMUNICATIONS NETWORK**  
[54] **SYSTEME ET PROCEDE DE FOURNITURE D'INFORMATIONS DE PRISE EN CHARGE DE SERVICE DE STATION MOBILE A UN RESEAU DE RADIOTELECOMMUNICATIONS**  
[72] CORRIVEAU, Michel, CA  
[72] MINICHELLO, Pat, CA  
[71] TELEFONAKTIEBOLAGET LM ERICSSON, SE  
[85] 1999-05-26  
[86] 1997-11-04 (PCT/SE97/01836)  
[87] 1998-06-04 (WO98/24249)  
[30] US (60/031,857) 1996-11-27  
[30] US (08/810,700) 1997-03-03

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[21] **2,272,960**  
[13] A1

[51] **Int.Cl. 6A61F 2/08**  
[25] EN  
[54] **GRAFT LIGAMENT ANCHOR AND METHOD FOR ATTACHING A GRAFT LIGAMENT TO A BONE**  
[54] **DISPOSITIF D'ANCRAGE POUR GREFFON DE LIGAMENT ET PROCEDE DESTINE A FIXER UN GREFFON DE LIGAMENT A UN OS**  
[72] WENSTROM, Richard F., Jr., US  
[72] MARTINS, Harold M., US  
[72] SKLAR, Joseph H., US  
[71] SKLAR, Joseph H., US  
[85] 1999-05-26  
[86] 1997-11-26 (PCT/US97/21910)  
[87] 1998-06-04 (WO98/23229)  
[30] US (756,413) 1996-11-27

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[21] **2,272,961**  
[13] A1

[51] **Int.Cl. 6C09K 5/04**  
[25] EN  
[54] **REFRIGERANT COMPOSITION**  
[54] **COMPOSITION REFRIGERANTE**  
[72] ROBERTS, Neil, GB  
[71] RHODIA LIMITED, GB  
[85] 1999-05-26  
[86] 1997-11-28 (PCT/GB97/03286)  
[87] 1998-06-04 (WO98/23702)  
[30] GB (9624818.2) 1996-11-28

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[21] **2,272,964**  
[13] A1

[51] **Int.Cl. 6A47B 87/00**  
[25] EN  
[54] **FIXING BRACKET**  
[54] **SUPPORT DE FIXATION**  
[72] SARGENT, Danny (Deceased), GB  
[71] THE ESTATE OF DANNY SARGENT (Deceased), GB  
[85] 1999-05-12  
[86] 1997-11-12 (PCT/GB97/03094)  
[87] 1998-05-22 (WO98/20777)  
[30] GB (9623623.7) 1996-11-13

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## PCT Applications Entering the National Phase

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[21] **2,272,987**  
[13] A1  
[51] **Int.Cl. 6C12N 15/12 6A61K 39/395 6C07K 14/435**  
[25] EN  
[54] **NOVEL GENE ENCODING MALE-TRANSPLANTATION ANTIGEN**  
[54] **NOUVEAU GENE CODANT UN ANTIGENE DE TRANSPLANTATION SPECIFIQUE DU GENRE MASCULIN**  
[72] GREENFIELD, Andy, GB  
[72] SIMPSON, Elizabeth, GB  
[72] KOOPMAN, Peter Anthony, AU  
[71] MEDICAL RESEARCH COUNCIL (UNITED KINGDOM), GB  
[71] THE UNIVERSITY OF QUEENSLAND, AU  
[85] 1999-05-28  
[86] 1997-12-01 (PCT/AU97/00819)  
[87] 1998-06-04 (WO98/23739)  
[30] AU (PO 3947) 1996-11-29

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[21] **2,272,989**  
[13] A1  
[51] **Int.Cl. 6C12N 15/54 6C12N 9/12 6C07K 14/395 6C07K 16/40 6G01N 33/50 6C12N 15/62**  
[25] EN  
[54] **IDENTIFICATION OF INHIBITORS THAT PREVENT ACCESS OF TELOMERASE TO CHROMOSOMAL TERMINUS**  
[54] **IDENTIFICATION D'INHIBITEURS EMPECHANT L'ACCES DE LA TELOMERASE AUX TERMINAISONS CHROMOSOMIQUES**  
[72] LUNDBLAD, Victoria, US  
[71] BAYLOR COLLEGE OF MEDICINE, US  
[85] 1999-05-25  
[86] 1997-11-26 (PCT/US97/21272)  
[87] 1998-06-04 (WO98/23759)  
[30] US (08/756,693) 1996-11-26

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[21] **2,272,991**  
[13] A1  
[51] **Int.Cl. 6C07K 14/435 6C12P 21/02 6C12Q 1/25**  
[25] EN  
[54] **DISRUPTION OF THE MAMMALIAN RAD51 PROTEIN AND DISRUPTION OF PROTEINS THAT ASSOCIATE WITH MAMMALIAN RAD51 FOR HINDERING CELL PROLIFERATION**  
[54] **DISLOCATION DE LA PROTEINE RAD51 DU MAMMIFERE ET DISLOCATION DE PROTEINES S'ASSOCIANT A RAD51 DU MAMMIFERE, POUR INHIBER LA PROLIFERATION CELLULAIRE**  
[72] HASTY, Paul, US  
[71] LEXICON GENETICS INCORPORATED, US  
[85] 1999-05-04  
[86] 1997-11-05 (PCT/US97/20012)  
[87] 1998-05-14 (WO98/20030)  
[30] US (08/758,280) 1996-11-05

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[21] **2,272,992**  
[13] A1  
[51] **Int.Cl. 6C07H 5/04 6C07G 3/00**  
[25] EN  
[54] **SYNTHETIC GLYCOAMINES, METHODS FOR THEIR USE THAT AFFECT CELL**  
[54] **GLYCOSAMINES DE SYNTHÈSE, PROCÉDES DESTINÉS À LEUR UTILISATION AYANT UN EFFET SUR LES CELLULES**  
[72] GLINSKII, Guennadi V., US  
[71] GLINSKII, Guennadi V., US  
[85] 1999-05-26  
[86] 1997-11-24 (PCT/US97/21604)  
[87] 1998-06-04 (WO98/23625)  
[30] US (758,048) 1996-11-27

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[21] **2,272,993**  
[13] A1  
[51] **Int.Cl. 6B65G 21/22 6F16C 29/04 6E01B 25/10**  
[25] EN  
[54] **MEANS FOR GUIDING THE ROLLING OR GLIDING MOVEMENT OF OBJECTS ALONG A GIVEN PATH**  
[54] **DISPOSITIF DE GUIDAGE POUR LE DEPLACEMENT D'OBJETS ROULANTS OU COULISSANTS LE LONG D'UN PARCOURS PREDETERMINE**  
[72] SIEBENMANN, Dieter, CH  
[72] EBERLE, Jürg, CH  
[71] IPT WEINFELDEN AG, CH  
[85] 1999-05-26  
[86] 1997-11-17 (PCT/CH97/00436)  
[87] 1998-06-04 (WO98/23509)  
[30] CH (2917/96) 1996-11-27

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[21] **2,272,994**  
[13] A1  
[51] **Int.Cl. 6C12N 15/00 6A01K 67/027 6C12N 5/10 6C12N 15/85**  
[25] FR  
[54] **PROMOTEUR DE LA VE-CADHERINE ET SES UTILISATIONS**  
[54] **VE-CADHERIN PROMOTER AND ITS USES**  
[72] LAURENT, Monique, FR  
[72] GORY, Sylvie, FR  
[72] HUBER, Philippe, FR  
[71] COMMISSARIAT A L'ÉNERGIE ATOMIQUE - C.E.A., FR  
[85] 1999-05-27  
[86] 1997-12-02 (PCT/FR97/02178)  
[87] 1998-06-11 (WO98/24892)  
[30] FR (96/14801) 1996-12-03

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[21] **2,272,995**  
[13] A1  
[51] **Int.Cl. 6C10G 11/18 6C10G 35/14**  
[25] EN  
[54] **IMPROVED FCC UNIT CATALYST STRIPPER**  
[54] **STRIPPEUR CATALYSEUR AMELIORE POUR UNITES DE CRAQUAGE CATALYTIQUE FLUIDE**  
[72] SMALLEY, Christopher Gordon, US  
[72] HOLTAN, Timothy Paul, US  
[72] SENIOR, Richard Charles, US  
[71] MOBIL OIL CORPORATION, US  
[85] 1999-05-26  
[86] 1997-12-19 (PCT/US97/23644)  
[87] 1998-07-02 (WO98/28382)  
[30] US (08/771,869) 1996-12-23

## Demandes PCT entrant en phase nationale

<p style="text-align: right;">[21] <b>2,272,996</b> [13] A1</p> <p>[51] <b>Int.Cl. 6B21D 1/12</b> [25] FR [54] <b>DISPOSITIF ET PROCEDE POUR REDRESSER DES ELEMENTS METALLIQUES ET PLASTIQUES ENDOMMAGES</b> [54] <b>DEVICE AND METHOD FOR STRAIGHTENING OUT DAMAGED METAL AND PLASTIC ELEMENTS</b> [72] SARRION, Sanchez Christian, FR [71] SARRION, Sanchez Christian, FR [85] 1999-05-04 [86] 1997-11-17 (PCT/FR97/02059) [87] 1998-05-28 (WO98/22235) [30] FR (96/14129) 1996-11-18 [30] FR (97/13547) 1997-10-29</p>	<p style="text-align: right;">[21] <b>2,272,999</b> [13] A1</p> <p>[51] <b>Int.Cl. 6C09K 7/02 6C09K 7/00</b> [25] EN [54] <b>WELL FLUID ADDITIVE</b> [54] <b>ADDITIF DE FLUIDE DE FORAGE</b> [72] BURTS, Boyce D., Jr., US [71] BOTTOM LINE INDUSTRIES, INC., US [85] 1999-05-26 [86] 1997-11-24 (PCT/US97/22515) [87] 1998-06-04 (WO98/23704) [30] US (08/756,388) 1996-11-26</p>	<p style="text-align: right;">[21] <b>2,273,002</b> [13] A1</p> <p>[51] <b>Int.Cl. 6C07D 209/48 6A61K 31/40 6C07D 209/46</b> [25] EN [54] <b>IMMUNOTHERAPEUTIC IMIDES/AMIDES AS PDE IV AND TNF INHIBITORS</b> [54] <b>IMIDES/AMIDES A VOCATION IMMUNOTHERAPIQUE</b> [72] MULLER, George W., US [72] SHIRE, Mary, US [72] STIRLING, David I., US [71] CELGENE CORPORATION, US [85] 1999-05-26 [86] 1997-12-03 (PCT/US97/22369) [87] 1998-06-11 (WO98/24763) [30] US (08/759,788) 1996-12-03</p>
<p style="text-align: right;">[21] <b>2,272,997</b> [13] A1</p> <p>[51] <b>Int.Cl. 6G01V 3/00</b> [25] EN [54] <b>PREDICTION OF PERMEABILITY FROM CAPILLARY PRESSURE CURVES DERIVED WITH NMR</b> [54] <b>PREDICTION DE PERMEABILITE A PARTIR DE COURBES DE PRESSION CAPILLAIRE ETABLIES PAR RESONANCE MAGNETIQUE NUCLEAIRE</b> [72] BOWERS, Mark C., US [72] MYERS, Gary D., US [72] RAGLAND, Tommy V., US [72] BOUCHARD, André J., US [71] CONOCO INC., US [85] 1999-05-26 [86] 1997-11-13 (PCT/US97/20978) [87] 1998-09-17 (WO98/40763) [30] US (08/815,343) 1997-03-11</p>	<p style="text-align: right;">[21] <b>2,273,000</b> [13] A1</p> <p>[51] <b>Int.Cl. 6A61K 7/13 6A61K 7/09 6A61K 7/135</b> [25] FR [54] <b>COMPOSITION OXYDANTE ET UTILISATIONS POUR LA TEINTURE, POUR LA DEFORMATION PERMANENTE OU POUR LA DECOLORATION DES FIBRES KERATINIQUES</b> [54] <b>OXIDISING COMPOSITION AND USE FOR DYEING, PERMANENTLY SETTING OR BLEACHING KERATIN FIBRES</b> [72] COTTERET, Jean, FR [72] DE LA METTRIE, Roland, FR [72] MAUBRU, Mireille, FR [72] DE LABBEY, Arnaud, FR [71] L'OREAL, FR [85] 1999-05-21 [86] 1998-09-22 (PCT/FR98/02020) [87] 1999-04-15 (WO99/17723) [30] FR (97/12362) 1997-10-03</p>	<p style="text-align: right;">[21] <b>2,273,003</b> [13] A1</p> <p>[51] <b>Int.Cl. 6F25J 1/00</b> [25] EN [54] <b>PROCESS AND APPARATUS TO PRODUCE LNG</b> [54] <b>PROCEDE ET DISPOSITIF POUR PRODUIRE DU GAZ NATUREL LIQUEFIE</b> [72] LOW, William Raymond, US [71] PHILLIPS PETROLEUM COMPANY, US [85] 1999-05-26 [86] 1997-01-17 (PCT/US97/00776) [87] 1998-07-23 (WO98/31973)</p>
<p style="text-align: right;">[21] <b>2,272,998</b> [13] A1</p> <p>[51] <b>Int.Cl. 6B25H 1/12 6B25H 1/08 6A47B 13/16 6B25H 1/20</b> [25] FR [54] <b>POSTE D'ASSEMBLAGE</b> [54] <b>ASSEMBLY STATION</b> [72] LOEWERT, Claude, FR [71] ERGOS S.A., FR [85] 1999-05-20 [86] 1997-11-27 (PCT/FR97/02130) [87] 1998-06-04 (WO98/23415) [30] FR (96/14904) 1996-11-29</p>	<p style="text-align: right;">[21] <b>2,273,001</b> [13] A1</p> <p>[51] <b>Int.Cl. 6A61K 7/13 6A61K 7/06</b> [25] FR [54] <b>COMPOSITION OXYDANTE ET UTILISATIONS DANS LE TRAITEMENT DES FIBRES KERATINIQUES</b> [54] <b>OXIDISING COMPOSITION AND USES FOR TREATING KERATIN FIBRES</b> [72] DE LA METTRIE, Roland, FR [72] MAUBRU, Mireille, FR [72] DE LABBEY, Arnaud, FR [72] COTTERET, Jean, FR [71] L'OREAL, FR [85] 1999-05-21 [86] 1998-09-22 (PCT/FR98/02022) [87] 1999-04-15 (WO99/17724) [30] FR (97/12361) 1997-10-03</p>	<p style="text-align: right;">[21] <b>2,273,004</b> [13] A1</p> <p>[51] <b>Int.Cl. 6C04B 18/02 6B09B 3/00</b> [25] FR [54] <b>PROCEDE D'INSOLUBILISATION ET DE CONSOLIDATION DE BRASQUES USEES PROVENANT DES CUVES D'ELECTROLYSE HALL-HEROULT</b> [54] <b>METHOD FOR THE INSOLUBILISATION AND CONSOLIDATION OF USED BRASQUES FROM HALL-HEROULT ELECTROLYTE VESSELS</b> [72] BOUZAT, Gilbert, FR [72] PERSONNET, Pierre, FR [71] ALUMINIUM PECHINEY, FR [85] 1999-05-25 [86] 1997-11-25 (PCT/FR97/02123) [87] 1998-06-04 (WO98/23551) [30] FR (96/14723) 1996-11-26</p>

## PCT Applications Entering the National Phase

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[21] **2,273,005**  
[13] A1

[51] **Int.Cl. 6B44D 3/12**  
[25] EN  
[54] **STACKABLE PAINT ROLLER TRAY WITH INTEGRAL PAINT BRUSH STORAGE TROUGH REST**  
[54] **BAC EMPILABLE POUR ROULEAU A PEINTURE, DOTE D'UN SUPPORT EN AUGES INTEGRES POUR PINCEAU**  
[72] ZURAWIN, Michael, US  
[71] NEWELL CO., US  
[85] 1999-05-26  
[86] 1997-11-26 (PCT/US97/22014)  
[87] 1998-06-04 (WO98/23454)  
[30] US (08/756,545) 1996-11-26

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[21] **2,273,006**  
[13] A1

[51] **Int.Cl. 6C09K 17/40**  
[25] FR  
[54] **COMPOSITIONS DE TRAITEMENT DE SOLS, LEUR PROCEDE DE PREPARATION ET LEUR UTILISATION**  
[54] **COMPOSITIONS FOR TREATING SOILS, METHOD OF PREPARATION AND USE THEREOF**  
[72] VAN TICHELEN, Etienne, BE  
[72] DESTEXHE, Lucien Marie Louis Joseph, BE  
[72] LAUDET, Alain, BE  
[72] PUIATTI, Daniel Antoine Angel, FR  
[71] S.A. LHOIST RECHERCHE ET DEVELOPPEMENT, BE  
[85] 1999-05-25  
[86] 1997-11-25 (PCT/BE97/00130)  
[87] 1998-06-04 (WO98/23705)  
[30] BE (9600987) 1996-11-26

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[21] **2,273,007**  
[13] A1

[51] **Int.Cl. 6B01D 53/84 6C10L 3/10**  
[25] EN  
[54] **PROCESS FOR BIOLOGICAL REMOVAL OF SULPHIDE**  
[54] **PROCEDE D'ELIMINATION BIOLOGIQUE DE SULFURE**  
[72] BUISMAN, Cees Jan Nico, NL  
[72] JANSSEN, Albert Jozef Hendrik, NL  
[71] PAQUES BIO SYSTEMS B.V., NL  
[85] 1999-05-26  
[86] 1997-11-26 (PCT/NL97/00647)  
[87] 1998-06-04 (WO98/23359)  
[30] EP (96203347.8) 1996-11-27

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[21] **2,273,008**  
[13] A1

[51] **Int.Cl. 6A61B 17/56**  
[25] EN  
[54] **SURGICAL BONE WAX APPLICATOR**  
[54] **APPLICATEUR DE CIRE HEMOSTATIQUE CHIRURGICALE**  
[72] PHILLIPS, Arnold G., US  
[71] PHILLIPS, Arnold G., US  
[85] 1999-05-26  
[86] 1997-09-29 (PCT/US97/17434)  
[87] 1999-04-08 (WO99/16372)

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[21] **2,273,009**  
[13] A1

[51] **Int.Cl. 6A61K 7/06 6A61K 7/50**  
[25] FR  
[54] **COMPOSITION OXYDANTE DESTINEE AU TRAITEMENT DES FIBRES KERATINIQUES**  
[54] **OXIDISING COMPOSITION FOR TREATING KERATIN FIBRES**  
[72] MAUBRU, Mireille, FR  
[72] DE LA METTRIE, Roland, FR  
[72] COTTERET, Jean, FR  
[72] DE LABBEY, Arnaud, FR  
[71] L'OREAL, FR  
[85] 1999-05-25  
[86] 1998-09-22 (PCT/FR98/02021)  
[87] 1999-04-15 (WO99/17720)  
[30] FR (97/12363) 1997-10-03

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[21] **2,273,010**  
[13] A1

[51] **Int.Cl. 6A61K 31/40**  
[25] EN  
[54] **USE OF GREEN PORPHYRINS FOR THE MANUFACTURE OF A MEDICAMENT FOR THE TREATMENT OF SECONDARY CATARACTS**  
[54] **UTILISATION DE PORPHYRINES VERTES POUR PREPARER UN MEDICAMENT SERVANT A TRAITER LES CATARACTES SECONDAIRES**  
[72] HUBER, Gustav, CH  
[72] MEADOWS, Howard E., CA  
[72] HARITON, Claude A. A., FR  
[72] ROOTMAN, Jack, CA  
[72] RICHTER, Anna M., CA  
[72] BUSSANICH, Nick, CA  
[72] WENKSTERN, Danielle, CA  
[72] LEVY, Julia G., CA  
[72] MALLEK, David R., CA  
[71] QLT PHOTOTHERAPEUTICS, INC., CA  
[71] CIBA VISION AG, HETTLINGEN, CH  
[71] THE UNIVERSITY OF BRITISH COLUMBIA, CA  
[85] 1999-05-26  
[86] 1997-12-08 (PCT/CA97/00949)  
[87] 1998-06-18 (WO98/25610)  
[30] US (08/762,854) 1996-12-10

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[21] **2,273,011**  
[13] A1

[51] **Int.Cl. 6A61B 5/103**  
[25] EN  
[54] **TISSUE EXAMINATION**  
[54] **EXAMEN DE TISSUS**  
[72] CUNDARI, Michael A., US  
[72] WEST, Alan I., US  
[72] WIDDER, David R., US  
[72] NOBLE, Brian D., US  
[72] THERIAULT, Richard H., US  
[71] ASSURANCE MEDICAL, INC., US  
[85] 1999-05-26  
[86] 1997-10-30 (PCT/US97/19743)  
[87] 1998-06-18 (WO98/26269)  
[30] US (08/757,466) 1996-11-27

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## Demandes PCT entrant en phase nationale

[21] **2,273,012**  
[13] A1

[51] **Int.Cl. 6C07B 57/00 6C07C 215/08 6C07C 213/10**  
[25] FR  
[54] **PROCEDE DE DEDOUBLEMENT DE COMPOSES 1-AMINO-ALCAN-2-OL**  
[54] **METHOD FOR SPLITTING 1-AMINO-ALKAN-2-OL COMPOUNDS**  
[72] COMBRET, Yvette, FR  
[72] CATROUX, Lionel, FR  
[72] COQUEREL, Gérard, FR  
[71] UNIVERSITÉ DE ROUEN, FR  
[85] 1999-05-26  
[86] 1997-11-28 (PCT/FR97/02158)  
[87] 1998-06-04 (WO98/23559)  
[30] FR (96/14694) 1996-11-29

[21] **2,273,013**  
[13] A1

[51] **Int.Cl. 6H05B 37/03 6H05B 37/02 6B64F 1/20**  
[25] EN  
[54] **DEVICE FOR THE MONITORING, CONTROL AND REGULATION OF FLUSH LIGHTS OF AN AIRPORT LIGHTING SYSTEM**  
[54] **DISPOSITIF DE CONTROLE, DE COMMANDE ET DE REGULATION D'ECLAIRAGE AFFLEURANT D'UN SYSTEME DE BALISAGE D'AEROPORTS**  
[72] SCHMIDT, Helmut, DE  
[72] OTTO, Hans Werner, DE  
[72] WOOCK, Henning, DE  
[72] VANDEVOORDE, Jean-Claude, BE  
[71] SIEMENS AKTIENGESELLSCHAFT, DE  
[85] 1999-05-26  
[86] 1997-11-28 (PCT/DE97/02787)  
[87] 1998-06-04 (WO98/24274)  
[30] DE (196 49 371.4) 1996-11-28

[21] **2,273,014**  
[13] A1

[51] **Int.Cl. 6G06K 19/06**  
[25] FR  
[54] **PROCEDE DE CODAGE, EQUIPEMENT POUR LE CODAGE ET PRODUIT AINSI CODE**  
[54] **CODING METHOD, CODING EQUIPMENT AND RESULTING CODED PRODUCT**  
[72] RIVAILLER, Jacques, FR  
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS), FR  
[85] 1999-05-26  
[86] 1998-09-29 (PCT/FR98/02089)  
[87] 1999-04-08 (WO99/17251)  
[30] FR (97/12142) 1997-09-30

[21] **2,273,015**  
[13] A1

[51] **Int.Cl. 6H05B 37/03 6H05B 37/02 6B64F 1/20**  
[25] EN  
[54] **DEVICE FOR THE MONITORING, CONTROL AND REGULATION OF FLUSH LIGHTS OF A STREET LIGHTING SYSTEM**  
[54] **DISPOSITIF DE CONTROLE, DE COMMANDE ET DE REGULATION D'ECLAIRAGE AFFLEURANT D'UN SYSTEME DE BALISAGE DE VOIE PUBLIQUE**  
[72] WOOCK, Henning, DE  
[72] SCHMIDT, Helmut, DE  
[72] OTTO, Hans Werner, DE  
[71] SIEMENS AKTIENGESELLSCHAFT, DE  
[85] 1999-05-26  
[86] 1997-11-28 (PCT/DE97/02788)  
[87] 1998-06-04 (WO98/24275)  
[30] DE (196 49 371.4) 1996-11-28

[21] **2,273,016**  
[13] A1

[51] **Int.Cl. 6F04B 35/00 6F03G 3/00 6F04B 27/06**  
[25] EN  
[54] **GAS COMPRESSOR**  
[54] **COMPRESSEUR DE GAZ**  
[72] LIN, Yng-Lang, CN  
[71] LIN, Yng-Lang, CN  
[85] 1999-05-26  
[86] 1997-11-24 (PCT/CN97/00135)  
[87] 1998-06-04 (WO98/23861)  
[30] US (08/756,980) 1996-11-26

[21] **2,273,017**  
[13] A1

[51] **Int.Cl. 6A61M 36/12 6A61D 7/00 6A61K 9/14**  
[25] FR  
[54] **DISPOSITIF D'ADMINISTRATION LOCALE DE FORMULATIONS PHARMACEUTIQUES SOLIDES OU SEMI-SOLIDES, FORMULATIONS PHARMACEUTIQUES RETARD POUR L'ADMINISTRATION PARENTERALE ET PROCEDE DE PREPARATION**  
[54] **DEVICE FOR LOCAL ADMINISTRATION OF SOLID AND SEMISOLID PHARMACEUTICAL FORMULATIONS, SUSTAINED-RELEASE PHARMACEUTICAL FORMULATIONS FOR PARENTERAL ADMINISTRATION AND METHOD OF PREPARATION**  
[72] CHERIF-CHEIKH, Roland, FR  
[71] DELAB, FR  
[85] 1999-05-26  
[86] 1997-12-02 (PCT/FR97/02182)  
[87] 1998-06-11 (WO98/24504)  
[30] FR (96/14755) 1996-12-02

[21] **2,273,018**  
[13] A1

[51] **Int.Cl. 6H01M 8/04**  
[25] EN  
[54] **PROCESS FOR RECOGNISING A GAS LEAK IN A FUEL CELL INSTALLATION WITH POLYMER ELECTROLYTES, AND FUEL CELL INSTALLATION**  
[54] **PROCEDE DE RECONNAISSANCE DE FUITES DE GAZ DANS UNE INSTALLATION A CELLULES ELECTROCHIMIQUES AVEC DES ELECTROLYTES POLYMERES, ET INSTALLATION A CELLULES ELECTROCHIMIQUES**  
[72] LERSCH, Josef, DE  
[72] BETTE, Willi, DE  
[71] SIEMENS AKTIENGESELLSCHAFT, DE  
[85] 1999-05-26  
[86] 1997-11-17 (PCT/DE97/02695)  
[87] 1998-06-04 (WO98/24137)  
[30] DE (196 49 436.2) 1996-11-28



## PCT Applications Entering the National Phase

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[21] **2,273,019**  
[13] A1  
[51] **Int.Cl. 6B31D 1/02**  
[25] EN  
[54] **MANUFACTURE OF SELF-ADHESIVE LABELS**  
[54] **FABRICATION D'ETIQUETTES AUTOCOLLANTES**  
[72] INSTANCE, David John, GB  
[71] DAVID J. INSTANCE LIMITED, GB  
[85] 1999-05-26  
[86] 1997-11-19 (PCT/GB97/03178)  
[87] 1998-06-04 (WO98/23440)  
[30] GB (9624826.5) 1996-11-28

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[21] **2,273,020**  
[13] A1  
[51] **Int.Cl. 6H04J 14/02 6H04B 10/00**  
[25] EN  
[54] **OPTICAL CHANNEL REGULATOR AND METHOD**  
[54] **REGULATEUR DE VOIES OPTIQUES ET PROCEDE CORRESPONDANT**  
[72] DUGAN, J. Michael, US  
[72] MAXHAM, Kenneth Y., US  
[71] ALCATEL NETWORK SYSTEMS, INC., US  
[85] 1999-05-26  
[86] 1998-09-30 (PCT/US98/20747)  
[87] 1999-04-08 (WO99/17485)  
[30] US (60/060,526) 1997-09-30

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[21] **2,273,021**  
[13] A1  
[51] **Int.Cl. 6C07D 503/02**  
[25] EN  
[54] **PURIFICATION OF FERMENTED CLAVULANIC ACID**  
[54] **PURIFICATION D'ACIDE CLAVULANIQUE FERMENTE**  
[72] WAGNER, Helmut, AT  
[72] RENZL, Alois, AT  
[72] SUMMER, Harald, AT  
[71] BIOCHEMIE GESELLSCHAFT MBH, AT  
[85] 1999-05-26  
[86] 1997-11-25 (PCT/EP97/06578)  
[87] 1998-06-04 (WO98/23622)  
[30] AT (A 2062/96) 1996-11-27

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[21] **2,273,023**  
[13] A1  
[51] **Int.Cl. 6C07C 309/73 6A61L 33/00 6C07C 317/14 6C07D 217/22 6C07D 295/22 6A61K 31/255 6C07D 215/36 6A61K 31/44 6A61K 31/47 6A61K 31/505 6C07C 309/75**  
[25] EN  
[54] **AMINO GUANIDINES AND ALKOXYGUANIDINES AS PROTEASE INHIBITORS**  
[54] **AMINO GUANIDINES ET ALCOXYGUANIDINES UTILISEES EN TANT QU'INHIBITEURS DE PROTEASES**  
[72] MARKOTAN, Thomas P., US  
[72] ILLIG, Carl R., US  
[72] FEDDE, Cynthia L., US  
[72] SOLL, Richard M., US  
[72] LU, Tianbao, US  
[72] STAGNARO, Thomas P., US  
[72] TOMCZUK, Bruce E., US  
[71] 3-DIMENSIONAL PHARMACEUTICALS, INC., US  
[85] 1999-05-26  
[86] 1997-11-26 (PCT/US97/21649)  
[87] 1998-06-04 (WO98/23565)  
[30] US (60/031,822) 1996-11-26

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[21] **2,273,024**  
[13] A1  
[51] **Int.Cl. 6G06F 13/00 6H04L 29/06**  
[25] EN  
[54] **METHOD IN CONNECTION WITH SERIAL DATA TRANSFER TO RECOGNIZE A FIXED PATTERN**  
[54] **PROCEDE SE RAPPORTANT AU TRANSFERT DE DONNEES EN SERIE ET PERMETTANT DE RECONNAITRE UN DIAGRAMME FIXE**  
[72] BIRKELAND, Bjorn, NO  
[71] TELEFONAKTIEBOLAGET LM ERICSSON, SE  
[85] 1999-05-26  
[86] 1997-11-26 (PCT/NO97/00317)  
[87] 1998-06-04 (WO98/24030)  
[30] NO (965051) 1996-11-27

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[21] **2,273,025**  
[13] A1  
[51] **Int.Cl. 6H04R 7/06 6H04R 17/00 6H04R 1/26 6H04R 1/40**  
[25] EN  
[54] **ELECTROACOUSTIC TRANSDUCERS COMPRISING VIBRATING PANELS**  
[54] **TRANSDUCTEURS ELECTROACOUSTIQUES COMPRENANT DES PANNEAUX VIBRANTS**  
[72] LUNDIE, Thomas, GB  
[72] DAVIS, Gillian Margaret, GB  
[72] MCDONALD, Anthony Malcolm, GB  
[71] NCT GROUP, INC., US  
[85] 1999-05-26  
[86] 1997-11-11 (PCT/GB97/03090)  
[87] 1998-07-02 (WO98/28942)  
[30] GB (9626439.5) 1996-12-20  
[30] GB (9700336.2) 1997-01-09

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[21] **2,273,026**  
[13] A1  
[51] **Int.Cl. 6A61K 7/00**  
[25] EN  
[54] **NON-IRRITATING COSMETIC AND PHARMACEUTICAL COMPOSITIONS**  
[54] **COMPOSITIONS PHARMACEUTIQUES ET COSMETIQUES NON IRRITANTES**  
[72] CASTILLO-BUCCI, Carmen, US  
[72] KNIGHT, E. Althea, US  
[72] MAES, Daniel H., US  
[72] ZECCHINO, Jules, US  
[71] E-L MANAGEMENT CORP., US  
[85] 1999-05-26  
[86] 1998-09-22 (PCT/US98/19803)  
[87] 1999-04-08 (WO99/16412)  
[30] US (08/940783) 1997-09-30

## Demandes PCT entrant en phase nationale

<p style="text-align: right;">[21] <b>2,273,027</b> [13] A1</p> <p>[51] <b>Int.Cl. 6E21B 36/00 6E21B 43/24</b> [25] EN [54] <b>METHODS AND APPARATUS FOR ENHANCED RECOVERY OF VISCOUS DEPOSITS BY THERMAL STIMULATION</b> [54] <b>PROCEDES ET APPAREIL PERMETTANT D'AMELIORER LA RECUPERATION DE DEPOTS VISQUEUX PAR STIMULATION THERMIQUE</b> [72] HYTKEN, Kent B., US [71] FUTURE ENERGY, LLC, US [85] 1999-05-26 [86] 1997-11-17 (PCT/US97/21109) [87] 1998-06-04 (WO98/23842) [30] US (08/757,891) 1996-11-27</p>	<p style="text-align: right;">[21] <b>2,273,031</b> [13] A1</p> <p>[51] <b>Int.Cl. 6C07F 9/572</b> [25] EN [54] <b>NOVEL PHOSPHINOPYRROLIDINE COMPOUNDS AND PROCESS FOR PRODUCING THE SAME</b> [54] <b>NOUVEAUX COMPOSES DE PHOSPHINOPYRROLIDINE ET PROCEDE DE FABRICATION</b> [72] ACHIWA, Kazuo, JP [72] NAKAMOTO, Shin-ichi, JP [71] FUJI YAKUHIN KOGYO KABUSHIKI KAISHA, JP [71] ACHIWA, Kazuo, JP [85] 1999-05-27 [86] 1997-11-27 (PCT/JP97/04334) [87] 1998-06-04 (WO98/23624) [30] JP (8/334673) 1996-11-29</p>	<p style="text-align: right;">[21] <b>2,273,034</b> [13] A1</p> <p>[51] <b>Int.Cl. 6A23G 3/30</b> [25] EN [54] <b>METHOD OF CONTROLLING RELEASE OF BITTERNESS INHIBITORS IN CHEWING GUM AND GUM PRODUCED THEREBY</b> [54] <b>PROCEDE PERMETTANT DE REGULER LA LIBERATION D'AGENTS MODERATEURS D'AMERTUME DANS DE LA GOMME A MACHER ET GOMME AINSI PRODUITE</b> [72] SCHNELL, Philip G., US [72] GUDAS, Victor V., US [72] GREENBERG, Michael J., US [72] REED, Michael A., US [72] WOLF, Fred R., US [72] TYRPIN, Henry T., US [72] WITKEWITZ, David L., US [71] WM. WRIGLEY JR. COMPANY, US [85] 1999-05-26 [86] 1996-12-23 (PCT/US96/20252) [87] 1998-06-04 (WO98/23166) [30] WO (PCT/US96/18977) 1996-11-27</p>
<p style="text-align: right;">[21] <b>2,273,028</b> [13] A1</p> <p>[51] <b>Int.Cl. 6A61K 47/46 6A61K 31/07 6A61K 31/20 6A61K 7/48</b> [25] EN [54] <b>STABLE COMPOSITIONS CONTAINING BIOLOGICALLY ACTIVE COMPONENTS</b> [54] <b>COMPOSITIONS STABLES COMPRENANT DES COMPOSANTS BIOLOGIQUEMENT ACTIFS</b> [72] ZECCHINO, Jules, US [72] TALATI, Akshay, US [72] KNIGHT, E. Althea, US [71] E-L MANAGEMENT CORP., US [85] 1999-05-27 [86] 1998-09-22 (PCT/US98/19543) [87] 1999-04-08 (WO99/16472) [30] US (08/941182) 1997-09-30</p>	<p style="text-align: right;">[21] <b>2,273,032</b> [13] A1</p> <p>[51] <b>Int.Cl. 6B65D 81/32</b> [25] EN [54] <b>DUAL CONTAINER AND INDIVIDUAL CHAMBER THEREFOR</b> [54] <b>DOUBLE RECIPIENT ET CHAMBRE INDIVIDUELLE POUR CE DERNIER</b> [72] GERHART, Mark Douglas, US [72] COLLIS, William Kevin, US [71] UNILEVER PLC, GB [85] 1999-05-26 [86] 1997-12-11 (PCT/EP97/07146) [87] 1998-07-09 (WO98/29320) [30] US (08/773568) 1996-12-27</p>	<p style="text-align: right;">[21] <b>2,273,037</b> [13] A1</p> <p>[51] <b>Int.Cl. 6H04Q 11/04</b> [25] EN [54] <b>STATISTIC MULTIPLEXING OF ATM-CONNECTIONS</b> [54] <b>PROCEDE DE MULTIPLEXAGE STATISTIQUE DE COMMUNICATIONS ATM</b> [72] LAMPE, Dorothea, DE [72] WALLMEIER, Eugen, DE [71] SIEMENS AKTIENGESELLSCHAFT, DE [85] 1999-05-27 [86] 1997-11-07 (PCT/DE97/02601) [87] 1998-06-04 (WO98/24260) [30] DE (196 49 649.7) 1996-11-29</p>
<p style="text-align: right;">[21] <b>2,273,029</b> [13] A1</p> <p>[51] <b>Int.Cl. 6H04B 7/08</b> [25] EN [54] <b>COMMUNICATION STATION WITH MULTIPLE ANTENNAS</b> [54] <b>STATION DE COMMUNICATION AVEC ANTENNES MULTIPLES</b> [72] MESECHER, David K., US [72] LOMP, Gary R., US [72] KAZERKEVICH, Leonid, US [72] POLAN, Jeffrey S., US [71] INTERDIGITAL TECHNOLOGY CORPORATION, US [85] 1999-05-26 [86] 1998-05-26 (PCT/US98/10602) [87] 1999-05-14 (WO99/23767) [30] US (08/961,482) 1997-10-31</p>	<p style="text-align: right;">[21] <b>2,273,033</b> [13] A1</p> <p>[51] <b>Int.Cl. 6B61D 17/04 6B61D 17/10</b> [25] EN [54] <b>WAGON BODY</b> [54] <b>CAISSE DE WAGON</b> [72] NEUBAUER, Jörg, DE [72] SCHNAAS, Jürgen, DE [72] SCHLETT, Robert, DE [71] DUEWAG AKTIENGESELLSCHAFT, DE [85] 1999-05-26 [86] 1997-11-07 (PCT/DE97/02638) [87] 1998-06-04 (WO98/23475) [30] DE (196 49 041.3) 1996-11-27</p>	<p style="text-align: right;">[21] <b>2,273,038</b> [13] A1</p> <p>[51] <b>Int.Cl. 6H01Q 1/24 6G01R 31/28 6H04B 1/38</b> [25] EN [54] <b>ANTENNA ADAPTER</b> [54] <b>ADAPTATEUR D'ANTENNE</b> [72] FUNK, Thomas J., US [72] MALDONADO, David, US [71] QUALCOMM INCORPORATED, US [85] 1999-05-27 [86] 1997-11-25 (PCT/US97/21599) [87] 1998-06-11 (WO98/25322) [30] US (08/758,865) 1996-12-02</p>

## PCT Applications Entering the National Phase

[21] **2,273,039**  
[13] A1

[51] **Int.Cl. 6G01N 21/86**  
[25] EN  
[54] **DIAGNOSTIC SYSTEM**  
[54] **SYSTEME DIAGNOSTIQUE**  
[72] BREMNES, Dag, NO  
[72] SUNDREHAGEN, Erling, NO  
[71] AXIS BIOCHEMICALS ASA, NO  
[85] 1999-05-27  
[86] 1998-01-15 (PCT/GB98/00120)  
[87] 1998-07-23 (WO98/32004)  
[30] GB (9700729.8) 1997-01-15  
[30] GB (9715264.9) 1997-07-18  
[30] GB (9723321.7) 1997-11-04

[21] **2,273,040**  
[13] A1

[51] **Int.Cl. 6G09G 3/34 6H01S 3/10**  
[25] EN  
[54] **MONOCHROMATIC R,G,B LASER LIGHT SOURCE DISPLAY SYSTEM AND METHOD**  
[54] **SYSTEME ET PROCEDE D’AFFICHAGE A SOURCE DE LUMIERE LASER MONOCHROMATIQUE R,V,B**  
[72] KARAKAWA, Masayuki, US  
[71] CORPORATION FOR LASER OPTICS RESEARCH, US  
[85] 1999-05-27  
[86] 1997-11-28 (PCT/US97/22066)  
[87] 1998-06-18 (WO98/26328)  
[30] US (60/032,269) 1996-11-29

[21] **2,273,041**  
[13] A1

[51] **Int.Cl. 6B65H 27/00**  
[25] EN  
[54] **WINDER FOR ROLLING SHEETS OF MATERIAL, ESPECIALLY FOR WINDING PAPER OR CARDBOARD SHEETS INTO REELS**  
[54] **BOBINEUSE POUR ENROULER UNE BANDE DE MATERIAU, NOTAMMENT UNE BANDE DE PAPIER OU DE CARTON POUR FORMER UN ROULEAU BOBINE**  
[72] PETERS, Hans-Friedrich, DE  
[72] SCHONMEIER, Herbert, DE  
[71] JAGENBERG PAPIERTECHNIK GMBH, DE  
[85] 1999-05-27  
[86] 1997-11-05 (PCT/EP97/06111)  
[87] 1998-06-04 (WO98/23515)  
[30] DE (196 49 354.4) 1996-11-28

[21] **2,273,044**  
[13] A1

[51] **Int.Cl. 6H04L 12/40 6H04L 12/52 6H04L 12/56**  
[25] EN  
[54] **METHOD AND APPARATUS FOR HIGH-SPEED DATA TRANSFER THAT MINIMIZES CONDUCTORS**  
[54] **PROCEDE ET APPAREIL POUR UN TRANSFERT DES DONNEES A GRANDE VITESSE PERMETTANT DE REDUIRE AU MINIMUM LES CONDUCTEURS**  
[72] DOVE, Jason W., US  
[71] DSC TELECOM L.P., US  
[85] 1999-05-27  
[86] 1997-11-26 (PCT/US97/21594)  
[87] 1998-06-18 (WO98/26509)  
[30] US (60/032,045) 1996-11-27  
[30] US (60/031,898) 1996-11-27  
[30] US (60/031,828) 1996-11-27

[21] **2,273,046**  
[13] A1

[51] **Int.Cl. 6B29C 44/04 6B29C 44/38**  
[25] EN  
[54] **PROCESS FOR MANUFACTURING MULTILAYERED FOAM ARTICLES**  
[54] **PROCEDE DE FABRICATION D’ARTICLES EN MOUSSE MULTICOUCHE**  
[72] BROWN, Michael J., FR  
[72] BOCQUEL, Patrice, FR  
[72] CASATI, Francois M., FR  
[71] THE DOW CHEMICAL COMPANY, US  
[85] 1999-05-27  
[86] 1997-12-09 (PCT/GB97/03395)  
[87] 1998-06-18 (WO98/25748)  
[30] GB (9625594.8) 1996-12-10

[21] **2,273,049**  
[13] A1

[51] **Int.Cl. 6F02B 67/00 6B63H 20/00 6F01P 1/06**  
[25] EN  
[54] **OUTBOARD MOTOR**  
[54] **MOTEUR HORS-BORD**  
[72] TAWA, Hiroki, JP  
[72] TSUNODA, Masaki, JP  
[71] HONDA GIKEN KOGYO KABUSHIKI KAISHA, JP  
[85] 1999-05-27  
[86] 1997-12-19 (PCT/JP97/04703)  
[87] 1998-06-25 (WO98/27325)  
[30] JP (8-340214) 1996-12-19  
[30] JP (8-340215) 1996-12-19

[21] **2,273,050**  
[13] A1

[51] **Int.Cl. 6G03F 7/00 6G02B 6/10 6G03F 7/20 6G03B 21/62**  
[25] EN  
[54] **OPTICAL STRUCTURES FOR DIFFUSING LIGHT**  
[54] **STRUCTURES OPTIQUES CONCUES POUR DIFFUSER DE LA LUMIERE**  
[72] DIAZ, Jose, US  
[72] MAXFIELD, Mac, US  
[72] BEESON, Karl, US  
[72] ZIMMERMAN, Scott, US  
[71] ALLIEDSIGNAL INC., US  
[85] 1999-05-27  
[86] 1997-11-17 (PCT/US97/20780)  
[87] 1998-06-11 (WO98/25181)  
[30] US (08/759,338) 1996-12-02

[21] **2,273,053**  
[13] A1

[51] **Int.Cl. 6H04J 3/14 6H04J 3/02 6H04L 1/22 6G02B 6/293 6G02B 6/36 6H04L 12/46**  
[25] EN  
[54] **INTER-RING CROSS-CONNECT FOR SURVIVABLE MULTI-WAVELENGTH OPTICAL COMMUNICATION NETWORKS**  
[54] **INTERCONNEXION INTERANNULAIRE POUR RESEAUX DURCIS DE COMMUNICATION OPTIQUE A MULTIPLES LONGUEURS D’ONDES**  
[72] GAMELIN, John K., US  
[72] KHANDKER, Mamun R., US  
[72] IQBAL, Muhammed Z., US  
[72] CHANG, Gee-Kung, US  
[72] ELLINAS, Georgios N., US  
[71] BELL COMMUNICATIONS RESEARCH, INC., US  
[85] 1999-05-27  
[86] 1997-12-04 (PCT/US97/23155)  
[87] 1998-06-11 (WO98/25365)  
[30] US (60/032,120) 1996-12-06

## Demandes PCT entrant en phase nationale

<p style="text-align: right;">[21] <b>2,273,054</b> [13] A1</p> <p>[51] <b>Int.Cl. 6C07C 9/00 6C07B 63/00</b> [25] EN [54] <b>METHOD FOR RECOVERING GAS FROM HYDRATES</b> [54] <b>PROCEDES DE RECUPERATION DE GAZ A PARTIR D'HYDRATES</b> [72] SAEGER, Roland Bernard, US [72] LONG, Jinping, US [72] HEINEMANN, Robert Frederick, US [72] HUANG, David Da-Teh, US [71] MOBIL OIL CORPORATION, US [85] 1999-05-27 [86] 1997-12-19 (PCT/US97/24202) [87] 1998-07-09 (WO98/29369) [30] US (08/774,980) 1996-12-26</p>	<p style="text-align: right;">[21] <b>2,273,071</b> [13] A1</p> <p>[51] <b>Int.Cl. 6C12P 21/00 6C07K 1/00 6C07K 2/00 6C07K 1/02 6C07K 1/04 6C12P 21/06 6C07K 1/107</b> [25] EN [54] <b>GENERAL CHEMICAL LIGATION [54] LIGATURE CHIMIQUE GENERALE</b> [72] KENT, Stephen B. H., US [72] DAWSON, Philip E., US [72] CANNE, Lynne, US [72] MUIR, Tom W., US [72] BARK, Steven J., US [71] THE SCRIPPS RESEARCH INSTITUTE, US [85] 1999-05-27 [86] 1996-12-24 (PCT/US96/20610) [87] 1998-07-02 (WO98/28434)</p>	<p style="text-align: right;">[21] <b>2,273,074</b> [13] A1</p> <p>[51] <b>Int.Cl. 6A61K 39/17</b> [25] EN [54] <b>IN OVO VACCINATION AGAINST NEWCASTLE DISEASE</b> [54] <b>VACCINATION IN OVO CONTRE LA MALADIE DE NEWCASTLE</b> [72] DAVELAAR, Frans Gerrit, NL [71] DIMMINACO AG, CH [85] 1999-05-27 [86] 1997-12-16 (PCT/EP97/07066) [87] 1998-06-25 (WO98/26800) [30] EP (96203572.1) 1996-12-17</p>
<p style="text-align: right;">[21] <b>2,273,055</b> [13] A1</p> <p>[51] <b>Int.Cl. 6A61K 9/00</b> [25] EN [54] <b>AGENT FOR PRODUCING A LONG-LASTING SATURATION EFFECT</b> [54] <b>AGENT POUR PRODUIRE UN EFFET DE SATURATION DE LONGUE DUREE</b> [72] BEISEL, Gunther, DE [71] BEISEL, Gunther, DE [85] 1999-05-27 [86] 1997-05-26 (PCT/EP97/02676) [87] 1998-06-04 (WO98/23259) [30] WO (PCT/EP96/05240) 1996-11-27</p>	<p style="text-align: right;">[21] <b>2,273,072</b> [13] A1</p> <p>[51] <b>Int.Cl. 6A61M 25/00</b> [25] EN [54] <b>TEMPERATURE REGULATING CATHETER AND METHODS</b> [54] <b>CATHETER ET PROCEDES DE REGULATION DE TEMPERATURE</b> [72] GINSBURG, Robert, US [71] RADIANT MEDICAL, US [85] 1999-05-27 [86] 1997-12-19 (PCT/US97/23641) [87] 1998-06-25 (WO98/26831) [30] US (08/769,931) 1996-12-19</p>	<p style="text-align: right;">[21] <b>2,273,075</b> [13] A1</p> <p>[51] <b>Int.Cl. 6B05B 1/10</b> [25] EN [54] <b>IMPROVED HIGH-SPEED WINDSHIELD WASHER NOZZLE SYSTEM</b> [54] <b>GICLEUR DE LAVE-GLACE PERFECTIONNE CONCU POUR FONCTIONNER CORRECTEMENT SUR UN VEHICULE ROULANT A GRANDE VITESSE</b> [72] RAGHU, Surya, US [71] BOWLES FLUIDICS CORPORATION, US [85] 1999-05-27 [86] 1997-12-19 (PCT/US97/22968) [87] 1998-07-02 (WO98/28084) [30] US (08/771,764) 1996-12-20</p>
<p style="text-align: right;">[21] <b>2,273,057</b> [13] A1</p> <p>[51] <b>Int.Cl. 6B61B 13/00</b> [25] EN [54] <b>PERSONAL RAPID TRANSIT SYSTEM UTILIZING BOTH COURSE RESERVATION AND BRANCH STOP TECHNOLOGIES</b> [54] <b>SYSTEME DE TRANSPORT RAPIDE PERSONNALISE UTILISANT LES TECHNOLOGIES DE RESERVATION DE PARCOURS ET DE STATIONS SECONDAIRES</b> [72] PARK, Tae Jin, KR [71] PARK, Tae Jin, KR [85] 1999-05-27 [86] 1997-12-01 (PCT/KR97/00251) [87] 1998-06-11 (WO98/24673) [30] KR (1996/61002) 1996-12-02</p>	<p style="text-align: right;">[21] <b>2,273,073</b> [13] A1</p> <p>[51] <b>Int.Cl. 6B23Q 3/08</b> [25] EN [54] <b>HYDRAULIC SWING CLAMP APPARATUS HAVING SPEED CONTROL MECHANISM</b> [54] <b>DISPOSITIF DE SERRAGE PIVOTANT HYDRAULIQUE DOTE D'UN MECANISME DE REGULATION DE VITESSE</b> [72] MASCOLA, James V., US [71] VEKTEK, INC., US [85] 1999-05-27 [86] 1997-04-23 (PCT/US97/06674) [87] 1998-06-04 (WO98/23407) [30] US (08/753,695) 1996-11-27</p>	<p style="text-align: right;">[21] <b>2,273,077</b> [13] A1</p> <p>[51] <b>Int.Cl. 6A61F 2/06</b> [25] EN [54] <b>TUBULAR GRAFTS FROM PURIFIED SUBMUCOSA</b> [54] <b>GREFFES TUBULAIRES FORMEES A PARTIR DE SOUS-MUQUEUSE PURIFIEE</b> [72] HILES, Michael C., US [72] FEARNOT, Neal E., US [71] COOK BIOTECH, INC., US [71] MED INSTITUTE, INC., US [85] 1999-05-27 [86] 1997-12-10 (PCT/US97/23006) [87] 1998-06-18 (WO98/25546) [30] US (60/032,679) 1996-12-10</p>

## PCT Applications Entering the National Phase

[21] **2,273,078**  
[13] A1

[51] **Int.Cl. 6C12Q 1/68**  
[25] EN  
[54] **USE OF NUCLEIC ACIDS BOUND TO CARRIER MACROMOLECULES**  
[54] **UTILISATION D'ACIDES NUCLEIQUES LIES A DES MACROMOLECULES PORTEUSES**  
[72] STANLEY, Christopher John, GB  
[71] AMDEX A/S, DK  
[85] 1999-05-18  
[86] 1997-11-18 (PCT/GB97/03160)  
[87] 1998-05-28 (WO98/22620)  
[30] GB (9624165.8) 1996-11-19

[21] **2,273,079**  
[13] A1

[51] **Int.Cl. 6C12N 9/00 6C11D 3/386 6C12N 9/54**  
[25] EN  
[54] **CHEMICALLY MODIFIED ENZYMES**  
[54] **ENZYMES CHIMIQUEMENT MODIFIEES**  
[72] GRAYCAR, Thomas P., US  
[72] MITCHINSON, Colin, US  
[72] BOTT, Richard R., US  
[72] DeSANTIS, Richard R., US  
[72] JONES, J. Bryan, CA  
[71] GENENCOR INTERNATIONAL, INC., US  
[71] JONES, J. Bryan, CA  
[85] 1999-05-25  
[86] 1997-11-24 (PCT/US97/21446)  
[87] 1998-06-04 (WO98/23732)  
[30] US (08/756,664) 1996-11-26

[21] **2,273,080**  
[13] A1

[51] **Int.Cl. 6C12N 15/12 6C12N 5/10 6A61K 38/17 6C12N 1/21 6C07K 16/46 6C12N 15/62 6C07K 14/705**  
[25] FR  
[54] **MUTANTS DE LA PROTEINE LAG-3, LEUR EXPRESSION ET UTILISATION**  
[54] **MUTANTS OF THE LAG-3 PROTEINS, PRODUCTS FOR THE EXPRESSION OF THESE MUTANTS AND USE**  
[72] HUARD, Bertrand, FR  
[72] TRIEBEL, Frédéric, FR  
[72] MASTRANGELI, Renato, IT  
[72] EL TAYAR, Nabil, US  
[71] APPLIED RESEARCH SYSTEMS ARS HOLDING N.V., AN  
[71] INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE (INSERM), FR  
[71] INSTITUT GUSTAVE ROUSSY, FR  
[85] 1999-05-27  
[86] 1997-11-25 (PCT/FR97/02126)  
[87] 1998-06-04 (WO98/23741)  
[30] FR (96/14608) 1996-11-28

[21] **2,273,081**  
[13] A1

[51] **Int.Cl. 6C12Q 1/68 6A61K 45/00 6A61K 31/12 6A61K 31/505 6C12N 15/53 6C12Q 1/66**  
[25] EN  
[54] **METHOD FOR SCREENING HEAT SHOCK PROTEIN EXPRESSION INDUCTION REGULATORS**  
[54] **PROCEDE DE CRIBLAGE DES REGULATEURS DE L'INDUCTION DE L'EXPRESSION DE PROTEINES DE CHOC THERMIQUE**  
[72] MORI, Tetsuya, JP  
[72] MATSUMOTO, Shuji, JP  
[72] YANAGI, Hideki, JP  
[72] YURA, Takashi, JP  
[71] HSP RESEARCH INSTITUTE, INC., JP  
[85] 1999-05-26  
[86] 1998-09-28 (PCT/JP98/04325)  
[87] 1999-04-08 (WO99/16903)  
[30] JP (9/264149) 1997-09-29

[21] **2,273,082**  
[13] A1

[51] **Int.Cl. 6C12N 5/00**  
[25] EN  
[54] **SERUM-FREE CELL CULTURE MEDIA**  
[54] **MILIEUX DE CULTURES CELLULAIRES SANS SERUM**  
[72] BERTHEUSSEN, Kjell, NO  
[71] MEDI-CULT A/S, DK  
[85] 1999-05-26  
[86] 1997-12-01 (PCT/EP97/06721)  
[87] 1998-06-11 (WO98/24883)  
[30] GB (9625175.6) 1996-12-04

[21] **2,273,083**  
[13] A1

[51] **Int.Cl. 6A61K 31/34 6C07H 17/02 6C07H 17/04 6C07D 405/06 6C07D 409/06 6C07D 413/06 6C07D 417/06 6C07D 209/08 6C07D 303/14 6C07D 405/14 6C07D 409/14 6C07D 413/14 6C07D 417/14 6C07D 317/18 6C07D 277/24 6C07D 317/26 6C07D 213/28 6C07D 263/32 6C07D 307/36 6A61K 31/40 6A61K 31/415 6A61K 31/42 6A61K 31/425 6A61K 31/44 6C07D 233/54 6C07D 233/56 6A61K 31/585 6C07D 233/64 6A61K 31/70 6C07D 211/82**  
[25] EN  
[54] **SYNTHESIS OF EPOTHILONES, INTERMEDIATES THERETO, ANALOGUES AND USES THEREOF**  
[54] **SYNTHESE D'EPOTHILONES, INTERMEDIAIRES UTILISES DANS LEUR SYNTHESE, ANALOGUES ET UTILISATIONS DE CELLES-CI**  
[72] BALOG, Aaron, US  
[72] SU, Dai-Shi, US  
[72] BERTINATO, Peter, US  
[72] SORENSEN, Erik J., US  
[72] MENG, DongFang, US  
[72] DANISHEFSKY, Samuel J., US  
[72] KAMENECKA, Ted, US  
[72] CHOU, Ting-Chao, US  
[71] SLOAN-KETTERING INSTITUTE FOR CANCER RESEARCH, US  
[85] 1999-05-27  
[86] 1997-12-03 (PCT/US97/22381)  
[87] 1999-01-14 (WO99/01124)  
[30] US (60/032,282) 1996-12-03  
[30] US (60/033,767) 1997-01-14  
[30] US (60/047,566) 1997-05-22  
[30] US (60/047,941) 1997-05-29  
[30] US (60/055,533) 1997-08-13

## Demandes PCT entrant en phase nationale

[21] **2,273,085**

[13] A1

[51] **Int.Cl. 6A61K 31/40 6A61K 31/54**  
[25] EN  
[54] **COMPOSITION CONTAINING DIARYLALKANE DERIVATIVE AS THE ACTIVE INGREDIENT FOR TREATING OR PREVENTING PANCREATITIS**  
[54] **COMPOSITION CONTENANT UN DERIVE DE DIARYLALKANE EN TANT QUE PRINCIPE ACTIF DESTINEE AU TRAITEMENT OU A LA PREVENTION DE PANCREATITE**  
[72] ASAI, Fumitoshi, JP  
[72] FUJIMOTO, Koichi, JP  
[71] SANKYO COMPANY, LIMITED, JP  
[85] 1999-05-27  
[86] 1997-11-27 (PCT/JP97/04323)  
[87] 1998-06-04 (WO98/23271)  
[30] JP (8/317746) 1996-11-28

[21] **2,273,086**

[13] A1

[51] **Int.Cl. 6C01B 3/00 6C07D 265/12 6C07D 295/14 6C07D 211/26 6C07D 211/34 6C11D 7/38 6C11D 3/39**  
[25] EN  
[54] **N-ALKYL AMMONIUM ACETONITRILE ACTIVATORS IN DENSE GAS CLEANING AND METHOD**  
[54] **ACTIVATEURS A L'ACETONITRILE D'AMMONIUM N-ALKYLE UTILISES DANS DES COMPOSITIONS DE NETTOYAGE AVEC DU GAZ DENSE ET PROCEDE ASSOCIE**  
[72] MITCHELL, James D., US  
[72] KAARET, Thomas W., US  
[72] KLOTTER, Kevin A., US  
[72] ZIELSKE, Alfred G., US  
[72] FOLAND, Lafayette D., US  
[72] ALVAREZ, Vincent E., US  
[72] DELINE, James E., US  
[72] PETRIN, Michael J., US  
[72] ARBOGAST, James W., US  
[72] SMITH, William L., US  
[71] THE CLOROX COMPANY, US  
[85] 1999-05-27  
[86] 1997-11-18 (PCT/US97/21318)  
[87] 1998-06-04 (WO98/23532)  
[30] US (08/758,541) 1996-11-29

[21] **2,273,087**

[13] A1

[51] **Int.Cl. 6C07D 265/12 6C07D 295/12 6C07D 295/14 6C07D 211/26 6C07D 211/34**  
[25] EN  
[54] **PROCESS FOR PREPARING N-ALKYL AMMONIUM ACETONITRILE COMPOUNDS**  
[54] **PROCEDE DE PREPARATION DE COMPOSES D'ACETONITRILE D'AMMONIUM N-ALKYLE**  
[72] MULLER, Michael, DE  
[72] MUNDINGER, Klaus, DE  
[72] ZIELSKE, Alfred G., US  
[72] DELINE, James E., US  
[72] PHILLIPPI, Martin A., US  
[72] WIDDER, Rudi, DE  
[72] SCHAFFER, Wolfgang, DE  
[72] SCHURMANN, Gregor, DE  
[72] MULLER, Joseph, DE  
[72] FOLAND, Lafayette D., US  
[72] ANNEN, Ulrich, DE  
[72] RULAND, Alfred, DE  
[72] KLOTTER, Kevin A., US  
[71] BASF AKTIENGESELLSCHAFT, DE  
[71] THE CLOROX COMPANY, US  
[85] 1999-05-27  
[86] 1997-11-18 (PCT/US97/21111)  
[87] 1998-06-04 (WO98/23601)  
[30] US (08/758,542) 1996-11-29  
[30] US (08/905,511) 1997-08-04

[21] **2,273,088**

[13] A1

[51] **Int.Cl. 6C07D 265/30 6C01B 3/00 6C07D 295/12 6C07D 295/14 6C07D 211/26 6C07D 211/34 6C11D 7/38 6C11D 3/39**  
[25] EN  
[54] **N-ALKYL AMMONIUM ACETONITRILE SALTS, METHODS THEREFOR AND COMPOSITIONS THEREWITH**  
[54] **SELS D'ACETONITRILE D'AMMONIUM N-ALKYLE, PROCEDES ASSOCIES ET COMPOSITIONS CONTENANT CES SELS**  
[72] MUNDINGER, Klaus, DE  
[72] ANNEN, Ulrich, DE  
[72] SMITH, William L., US  
[72] ZIELSKE, Alfred G., US  
[72] KLOTTER, Kevin A., US  
[72] PERKINS, Sarah A., US  
[72] PHILLIPPI, Martin A., US  
[72] SCHONHERR, Michael, DE  
[72] MULLER, Michael, DE  
[72] SCHOLTISSEK, Martin, DE  
[72] DELINE, James E., US  
[71] THE CLOROX COMPANY, US  
[71] BASF AKTIENGESELLSCHAFT, DE  
[85] 1999-05-27  
[86] 1997-11-18 (PCT/US97/21320)  
[87] 1998-06-04 (WO98/23602)  
[30] US (08/758,544) 1996-11-29

[21] **2,273,089**

[13] A1

[51] **Int.Cl. 6C01B 3/00 6C07D 265/12 6C07D 295/14 6C07D 211/26 6C07D 211/34 6C11D 7/38 6C11D 3/39**  
[25] EN  
[54] **MIXED PEROXYGEN ACTIVATOR COMPOSITIONS**  
[54] **COMPOSITIONS ACTIVATRICES PEROXYGENEES MIXTES**  
[72] KAARET, Thomas W., US  
[72] DELINE, James E., US  
[72] FOLAND, Lafayette D., US  
[72] ALVAREZ, Vincent E., US  
[72] SUDBURY, Barry A., US  
[72] PETRIN, Michael J., US  
[72] SMITH, William L., US  
[72] ZIELSKE, Alfred G., US  
[71] THE CLOROX COMPANY, US  
[85] 1999-05-27  
[86] 1997-11-18 (PCT/US97/21471)  
[87] 1998-06-04 (WO98/23534)  
[30] US (08/758,545) 1996-11-29

## PCT Applications Entering the National Phase

[21] **2,273,090**  
[13] A1

[51] **Int.Cl. 6C01B 3/00 6C07D 265/12 6C07D 295/12 6C07D 295/14 6C07D 211/26 6C07D 211/34 6C11D 7/38 6C11D 3/39**  
[25] EN  
[54] **LIQUID COMPOSITIONS CONTAINING N-ALKYL AMMONIUM ACETONITRILE SALTS**  
[54] **COMPOSITIONS LIQUIDES CONTENANT DES SELS D'ACETONITRILE D'AMMONIUM N-ALKYLE**  
[72] FOLAND, Lafayette D., US  
[72] CHOY, Clement K., US  
[72] SMITH, William L., US  
[72] DELINE, James E., US  
[72] PETRIN, Michael J., US  
[72] PHILLIPPI, Martin A., US  
[72] KLOTTER, Kevin A., US  
[72] GARABEDIAN, Aram Jr., US  
[71] THE CLOROX COMPANY, US  
[85] 1999-05-27  
[86] 1997-11-18 (PCT/US97/21335)  
[87] 1998-06-04 (WO98/23533)  
[30] US (08/758,540) 1996-11-29

[21] **2,273,091**  
[13] A1

[51] **Int.Cl. 6H01Q 1/24 6H04B 1/38 6H03H 7/46**  
[25] EN  
[54] **DUAL-BAND ANTENNA COUPLER FOR A PORTABLE RADIOTELEPHONE**  
[54] **COUPLEUR D'ANTENNE DOUBLE BANDE POUR RADIOTELEPHONE PORTABLE**  
[72] MALDONADO, David, US  
[71] QUALCOMM INCORPORATED, US  
[85] 1999-05-27  
[86] 1997-11-25 (PCT/US97/21600)  
[87] 1998-06-11 (WO98/25323)  
[30] US (08/760,024) 1996-12-04

[21] **2,273,092**  
[13] A1

[51] **Int.Cl. 6B41F 31/00**  
[25] EN  
[54] **ROTATING INK CUP**  
[54] **GODET A ENCRE ROTATIF**  
[72] SCHEUHING, Robert B., US  
[71] MARKEM CORPORATION, US  
[85] 1999-05-27  
[86] 1997-12-03 (PCT/US97/22553)  
[87] 1998-06-11 (WO98/24630)  
[30] US (08/760,856) 1996-12-05

[21] **2,273,093**  
[13] A1

[51] **Int.Cl. 6C01B 3/00 6B29C 59/00 6B29C 67/00 6C07D 265/12 6C07D 295/12 6C07D 211/26 6C07D 295/26 6C07D 211/34 6C11D 7/38 6C11D 3/39 6D04H 1/64**  
[25] EN  
[54] **GRANULAR N-ALKYL AMMONIUM ACETONITRILE COMPOSITIONS**  
[54] **COMPOSITIONS GRANULAIRES D'ACETONITRILE D'AMMONIUM N-ALKYLE**  
[72] KLOTTER, Kevin A., US  
[72] KAARET, Thomas W., US  
[72] ZIELSKE, Alfred G., US  
[72] SEELMANN-EGGEBERT, Hans Peter, DE

[72] CASELLA, Victor M., US  
[72] PERKINS, Sarah A., US  
[72] SMITH, William L., US  
[72] HUESTIS, Susan P., US  
[72] SIBERT, William P., US  
[72] PHILLIPPI, Martin A., US  
[72] PETRIN, Michael J., US  
[72] FOLAND, Lafayette D., US  
[72] DELINE, James E., US  
[72] CHOY, Clement K., US  
[72] PETERSON, David, US  
[72] BROCKEL, Ulrich, DE  
[72] SCHONHERR, Michael, DE  
[71] BASF AKTIENGESELLSCHAFT, DE  
[71] THE CLOROX COMPANY, US  
[85] 1999-05-27  
[86] 1997-11-18 (PCT/US97/21115)  
[87] 1998-06-04 (WO98/23531)  
[30] US (08/758,539) 1996-11-29

[21] **2,273,094**  
[13] A1

[51] **Int.Cl. 6A61K 31/47 6A61K 47/00 6A61K 47/02 6A61K 47/10 6A61K 47/14**  
[25] EN  
[54] **GEL FORMULATIONS FOR TOPICAL DRUG DELIVERY**  
[54] **FORMULATIONS SOUS FORME DE GEL POUR L'ADMINISTRATION LOCALE DE MEDICAMENTS**  
[72] TOMAI, Mark A., US  
[72] BEAURLINE, Joseph M., US  
[72] RODDY, Patrick J., US  
[71] MINNESOTA MINING AND MANUFACTURING COMPANY, US  
[85] 1999-05-27  
[86] 1997-12-01 (PCT/US97/21995)  
[87] 1998-06-11 (WO98/24436)  
[30] US (08/759,992) 1996-12-03

[21] **2,273,095**  
[13] A1

[51] **Int.Cl. 6H04M 3/42 6H04Q 11/04 6H04L 12/28**  
[25] EN  
[54] **GENERAL ACCESS SYSTEM**  
[54] **SYSTEME D'ACCES GENERAL**  
[72] TONNBY, Ingmar, SE  
[72] HANSSON, Allan, SE  
[71] TELEFONAKTIEBOLAGET LM ERICSSON, SE  
[85] 1999-05-27  
[86] 1997-11-28 (PCT/SE97/02000)  
[87] 1998-06-04 (WO98/24224)  
[30] SE (9604409-4) 1996-11-29

[21] **2,273,096**  
[13] A1

[51] **Int.Cl. 6H03D 7/12 6H03D 7/14**  
[25] EN  
[54] **METHOD AND ARRANGEMENT FOR FREQUENCY CONVERSION**  
[54] **PROCEDE ET DISPOSITIF DE CONVERSION DE FREQUENCE**  
[72] CARLSSON, Mats, SE  
[72] RYDIN, Arne, SE  
[71] TELEFONAKTIEBOLAGET LM ERICSSON, SE  
[85] 1999-05-27  
[86] 1997-11-21 (PCT/SE97/01962)  
[87] 1998-06-04 (WO98/24175)  
[30] SE (9604387-2) 1996-11-28

[21] **2,273,097**  
[13] A1

[51] **Int.Cl. 6C07D 317/34 6C09K 3/00 6A61K 47/26**  
[25] EN  
[54] **SUGAR COMPOUNDS, GELLING AGENTS, GELLING AGENT COMPOSITIONS, PROCESSES FOR THE PREPARATION OF THEM, AND GEL COMPOSITIONS**  
[54] **COMPOSITIONS DE SUCRE, AGENTS GELIFIANTS, COMPOSITIONS D'AGENT GELIFIANT, LEURS PROCEDES DE PREPARATION ET COMPOSITIONS DE GEL**  
[72] KOBAYASHI, Toshiaki, JP  
[72] ANDO, Kenshi, JP  
[72] NOMOTO, Harutomo, JP  
[71] NEW JAPAN CHEMICAL CO., LTD., JP  
[85] 1999-05-27  
[86] 1997-11-21 (PCT/JP97/04280)  
[87] 1998-06-04 (WO98/23604)  
[30] JP (8/334559) 1996-11-28  
[30] JP (9/286169) 1997-10-01

## Demandes PCT entrant en phase nationale

<p style="text-align: right;">[21] <b>2,273,098</b> [13] A1</p> <p>[51] <b>Int.Cl. 6C08L 59/00 6C08K 5/3445</b> [25] EN [54] <b>POLYACETAL RESIN COMPOSITION AND MOLDINGS</b> [54] <b>COMPOSITION DE RESINE ACETALIQUE ET MOULAGES</b> [72] KURITA, Hayato, JP [72] YAMADA, Tatsuya, JP [72] HARASHINA, Hatsuhiko, JP [71] POLYPLASTICS CO., LTD., JP [85] 1999-05-27 [86] 1997-12-22 (PCT/JP97/04758) [87] 1998-07-09 (WO98/29510) [30] JP (349920/1996) 1996-12-27</p>	<p style="text-align: right;">[21] <b>2,273,101</b> [13] A1</p> <p>[51] <b>Int.Cl. 6E21B 7/04</b> [25] EN [54] <b>SINGLE RISER WITH TWO WELLHEADS</b> [54] <b>TUBE PROLONGATEUR A DEUX TETES DE TUBAGE</b> [72] BRIDGES, Charles D., US [71] ABB VETCO GRAY INC., US [85] 1999-05-27 [86] 1997-12-04 (PCT/US97/22281) [87] 1998-06-11 (WO98/25003) [30] US (08/759,542) 1996-12-05</p>	<p style="text-align: right;">[21] <b>2,273,149</b> [13] A1</p> <p>[51] <b>Int.Cl. 6A61B 17/00</b> [25] EN [54] <b>APPARATUS AND METHODS FOR PERCUTANEOUSLY PERFORMING SURGERY</b> [54] <b>APPAREIL ET PROCEDES ADAPTES A LA CHIRURGIE PAR VOIE PERCUTANEE</b> [72] SAADAT, Vahid, US [71] ANGIOTRAX, INC., US [85] 1999-05-31 [86] 1997-11-25 (PCT/US97/21558) [87] 1998-06-11 (WO98/24372) [30] US (60/032,196) 1996-12-02 [30] US (08/863,877) 1997-05-27 [30] US (08/863,925) 1997-05-27</p>
<p style="text-align: right;">[21] <b>2,273,099</b> [13] A1</p> <p>[51] <b>Int.Cl. 6C07D 311/72</b> [25] EN [54] <b>PROCESS FOR CRYSTALLIZING D-ALPHA-TOCOPHERYL SUCCINATE</b> [54] <b>PROCEDE DE CRISTALLISATION DU D-.ALPHA.-TOCOPHERYL SUCCINATE</b> [72] CONNELLY, Richard Wayne, US [72] HAMLIN, Michael David, US [71] EASTMAN CHEMICAL COMPANY, US [85] 1999-05-27 [86] 1997-12-04 (PCT/US97/22615) [87] 1998-06-11 (WO98/24779) [30] US (08/761,276) 1996-12-06</p>	<p style="text-align: right;">[21] <b>2,273,102</b> [13] A1</p> <p>[51] <b>Int.Cl. 6C07D 231/40 6C07D 401/04 6C07D 401/12 6C07D 405/12 6A61K 31/415 6A61K 31/445 6A61K 31/495 6A61K 31/55</b> [25] EN [54] <b>NOVEL UREA DERIVATIVES</b> [54] <b>NOUVEAUX DERIVES D'UREE</b> [72] KANATANI, Akio, JP [72] IHARA, Masaki, JP [72] FUKURODA, Takahiro, JP [72] FUKAMI, Takehiro, JP [71] BANYU PHARMACEUTICAL CO., LTD., JP [85] 1999-05-27 [86] 1997-12-02 (PCT/JP97/04399) [87] 1998-06-11 (WO98/24768) [30] JP (8/337593) 1996-12-03</p>	<p style="text-align: right;">[21] <b>2,273,150</b> [13] A1</p> <p>[51] <b>Int.Cl. 6G01V 3/00</b> [25] EN [54] <b>MULTIPLE RESONANCE SUPERCONDUCTING PROBE</b> [54] <b>SONDE SUPRACONDUCTRICE A RESONANCE MULTIPLE</b> [72] MILLER, Jason R., US [72] MUN, In Ki, US [72] MA, Qiyuan, US [72] ZHANG, Kuan, US [71] THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK, US [85] 1999-05-31 [86] 1997-11-25 (PCT/US97/22080) [87] 1998-06-11 (WO98/25163) [30] US (60/031,533) 1996-12-02</p>
<p style="text-align: right;">[21] <b>2,273,100</b> [13] A1</p> <p>[51] <b>Int.Cl. 6C04B 35/80 6C04B 35/65</b> [25] EN [54] <b>SILICON CARBIDE REINFORCED SILICON CARBIDE COMPOSITE</b> [54] <b>COMPOSITE DE CARBURE DE SILICIUM A RENFORT DE CARBURE DE SILICIUM</b> [72] OHNSORG, Roger W., US [72] LAU, Sai-Kwing, US [72] CALANDRA, Salavatore J., US [71] SAINT-GOBAIN INDUSTRIAL CERAMICS, INC., US [85] 1999-05-27 [86] 1997-12-01 (PCT/US97/21874) [87] 1998-06-11 (WO98/24737) [30] US (08/758,715) 1996-12-02</p>	<p style="text-align: right;">[21] <b>2,273,105</b> [13] A1</p> <p>[51] <b>Int.Cl. 6A61M 1/34</b> [25] EN [54] <b>FIBER ASSEMBLY FOR IN VIVO PLASMA SEPARATION</b> [54] <b>ENSEMBLE FIBRES POUR SEPARATION PLASMATIQUE IN VIVO</b> [72] GORSUCH, Reynolds, US [71] Matria HEALTHCARE, INC., US [85] 1999-05-27 [86] 1997-12-02 (PCT/US97/21430) [87] 1998-06-11 (WO98/24505) [30] US (08/764,631) 1996-12-05</p>	<p style="text-align: right;">[21] <b>2,273,151</b> [13] A1</p> <p>[51] <b>Int.Cl. 6H03G 3/30</b> [25] EN [54] <b>EFFICIENT PARALLEL-STAGE POWER AMPLIFIER</b> [54] <b>AMPLIFICATEUR DE PUISSANCE A ETAGES PARALLELES EFFICACE</b> [72] CAMARILLO, Richard J., US [72] SEVIC, John F., US [71] QUALCOMM INCORPORATED, US [85] 1999-05-31 [86] 1997-12-05 (PCT/US97/22113) [87] 1998-06-18 (WO98/26503) [30] US (08/767,124) 1996-12-02</p>



## PCT Applications Entering the National Phase

<p style="text-align: right;">[21] <b>2,273,152</b> [13] A1</p> <p>[51] <b>Int.Cl. 6F16H 1/02</b> [25] EN [54] <b>ENGINE-GENERATOR SET WITH INTEGRAL GEAR REDUCTION</b> [54] <b>GROUPE MOTEUR-GENERATRICE A DEMULTIPLICATION INTEGREE</b> [72] RUEHLOW, Gerald C., US [72] KERN, Robert D., US [71] GENERAC CORPORATION, US [85] 1999-05-31 [86] 1997-12-02 (PCT/US97/22212) [87] 1998-06-11 (WO98/25049) [30] US (08/758359) 1996-12-03</p>	<p style="text-align: right;">[21] <b>2,273,169</b> [13] A1</p> <p>[51] <b>Int.Cl. 6H03M 7/40 6H04N 7/64</b> [25] EN [54] <b>VARIABLE LENGTH DECODER AND DECODING METHOD</b> [54] <b>DECODEUR DE LONGUEUR VARIABLE ET PROCEDE DE DECODAGE</b> [72] WATANABE, Toshiaki, JP [72] CHUJOH, Takeshi, JP [71] KABUSHIKI KAISHA TOSHIBA, JP [85] 1999-05-28 [86] 1998-10-02 (PCT/JP98/04460) [87] 1999-04-15 (WO99/18674) [30] JP (9-269916) 1997-10-02 [30] JP (10-189317) 1998-07-03</p>	<p style="text-align: right;">[21] <b>2,273,177</b> [13] A1</p> <p>[51] <b>Int.Cl. 6B29C 31/04 6B29C 45/02</b> [25] EN [54] <b>PRODUCTION OF MOULDED ARTICLES AND APPARATUS FOR PRODUCING MOULDED ARTICLES</b> [54] <b>PRODUCTION D'ARTICLES MOULES ET APPAREIL PERMETTANT DE PRODUIRE LESDITS ARTICLES</b> [72] HUMAN, Jan Petrus, ZA [71] LOMOLD INTERNATIONAL LIMITED, GB [85] 1999-03-08 [86] 1997-09-05 (PCT/US97/15673) [87] 1998-03-12 (WO98/09786) [30] ZA (96/7509) 1996-09-05 [30] ZA (97/4923) 1997-06-04</p>
<p style="text-align: right;">[21] <b>2,273,153</b> [13] A1</p> <p>[51] <b>Int.Cl. 6A23B 7/153 6A23L 3/3454</b> [25] EN [54] <b>PRESERVATIVE COMPOSITIONS AND METHODS FOR MUSHROOMS</b> [54] <b>COMPOSITIONS DE CONSERVATEURS POUR CHAMPIGNONS ET PROCEDES CORRESPONDANTS</b> [72] BEELMAN, Robert B., US [72] DUNCAN, Eric M., US [71] THE PENN STATE RESEARCH FOUNDATION, US [85] 1999-05-31 [86] 1998-10-02 (PCT/US98/20728) [87] 1999-04-15 (WO99/17624) [30] US (60/060,670) 1997-10-02 [30] US (09/120,905) 1998-07-22</p>	<p style="text-align: right;">[21] <b>2,273,176</b> [13] A1</p> <p>[51] <b>Int.Cl. 6G06F 17/60 6H04L 9/00</b> [25] EN [54] <b>CONDITIONAL PURCHASE OFFER MANAGEMENT SYSTEMS</b> [54] <b>SYSTEMES DE GESTION D'OFFRES D'ACHAT CONDITIONNELLES</b> [72] CASE, T. Scott, US [72] LECH, Robert R., US [72] JORASCH, James A., US [72] JINDAL, Sanjay K., US [72] WEIR-JONES, Toby, US [72] TEDESCO, Daniel E., US [72] VAN LUCHENE, Andrew S., US [72] SPARICO, Thomas M., US [72] SCHNEIER, Bruce, US [72] WALKER, Jay S., US [71] PRICELINE.COM INCORPORATED, US [85] 1999-02-16 [86] 1997-09-04 (PCT/US97/15492) [87] 1998-03-12 (WO98/10361) [30] US (08/707,660) 1996-09-04 [30] US (08/889,319) 1997-07-08</p>	<p style="text-align: right;">[21] <b>2,273,178</b> [13] A1</p> <p>[51] <b>Int.Cl. 6A61B 17/72</b> [25] EN [54] <b>ORTHOPEDIC IMPLANT</b> [54] <b>PROTHESE ORTHOPEDIQUE</b> [72] BIERMANN, Paul J., US [72] ROBERTS, Jack C., US [72] CORVELLI, Amy A., US [71] THE JOHNS HOPKINS UNIVERSITY, US [85] 1999-03-26 [86] 1997-03-06 (PCT/US97/03836) [87] 1998-05-14 (WO98/19617) [30] US (08/742,733) 1996-11-01</p>
<p style="text-align: right;">[21] <b>2,273,154</b> [13] A1</p> <p>[51] <b>Int.Cl. 6A61B 17/00</b> [25] EN [54] <b>APPARATUS AND METHODS FOR INTRAOPERATIVELY PERFORMING SURGERY</b> [54] <b>APPAREIL ET PROCEDES DE CHIRURGIE PEROPERATOIRE</b> [72] SAADAT, Vahid, US [71] ANGIOTRAX, INC., US [85] 1999-05-31 [86] 1997-11-25 (PCT/US97/21867) [87] 1998-06-11 (WO98/24373) [30] US (60/032,196) 1996-12-02 [30] US (08/953,046) 1997-10-17 [30] US (08/953,769) 1997-10-17</p>	<p style="text-align: right;">[21] <b>2,273,179</b> [13] A1</p> <p>[51] <b>Int.Cl. 6H04L 29/06 6H04L 12/18</b> [25] EN [54] <b>BROADCAST DELIVERY NEWSGROUP OF INFORMATION TO A PERSONAL COMPUTER FOR LOCAL STORAGE AND ACCESS</b> [54] <b>DIFFUSION D'INFORMATIONS A UN ORDINATEUR PERSONNEL POUR STOCKAGE ET ACCES EN MODE LOCAL</b> [72] ROBINS, Glenn D., US [72] DILLON, Douglas M., US [71] HUGHES ELECTRONICS CORPORATION, US [85] 1999-05-14 [86] 1998-09-21 (PCT/US98/19672) [87] 1999-04-01 (WO99/16226) [30] US (60/059,474) 1997-09-22</p>	

## Demandes PCT entrant en phase nationale

<p style="text-align: right;">[21] <b>2,273,180</b> [13] A1</p> <p>[51] <b>Int.Cl. 6C07D 487/04</b> [25] EN [54] <b>METHOD OF PREPARATION OF PHYSOSTIGMINE CARBAMATE DERIVATIVES FROM ESEROLINE ETHERS</b> [54] <b>PROCEDE DE PREPARATION DE DERIVES DE CARBAMATE DE PHYSOSTIGMINE A PARTIR D'ETHERS D'ESEROLINE</b> [72] LEE, Thomas B.K., US [72] RAUCKMAN, Barbara S., US [72] GAO, Zhongli, US [71] HOECHST MARION ROUSSEL, INC., US [85] 1999-05-18 [86] 1997-07-21 (PCT/US97/12367) [87] 1998-06-25 (WO98/27096) [30] US (08/769,409) 1996-12-19</p>	<p style="text-align: right;">[21] <b>2,273,208</b> [13] A1</p> <p>[51] <b>Int.Cl. 6H04L 12/56</b> [25] EN [54] <b>METHOD AND APPARATUS FOR HIGH-SPEED, SCALABLE COMMUNICATION SYSTEM</b> [54] <b>PROCEDE ET DISPOSITIF DESTINE A DES SYSTEMES MODULAIRES DE COMMUNICATION A GRANDE VITESSE</b> [72] VENKATACHALAM, Dinesh, US [72] BRAUN, Darren, US [72] RENO, Kevin, FR [72] HU, Chee, US [72] HOLDEN, Brian, US [72] CHAUDHRI, Imran, US [72] ALLEYNE, Brian, US [72] SPROUSE, Steve, US [72] HAQ, Nadeem, US [72] MENON, Raghavan, US [71] INTEGRATED TELECOM TECHNOLOGY, INC., US [85] 1999-05-28 [86] 1997-12-12 (PCT/US97/22646) [87] 1998-06-18 (WO98/26539) [30] US (60/033,029) 1996-12-12</p>	<p style="text-align: right;">[21] <b>2,273,211</b> [13] A1</p> <p>[51] <b>Int.Cl. 6B42F 5/00</b> [25] EN [54] <b>ALBUM SHEET</b> [54] <b>FEUILLES D'ALBUM</b> [72] FRIEDERICHSEN, Christian, DE [71] HOLSON GMBH, DE [85] 1999-05-28 [86] 1997-11-04 (PCT/DE97/02547) [87] 1998-07-30 (WO98/32614) [30] DE (197 02 474.2) 1997-01-24</p>
<p style="text-align: right;">[21] <b>2,273,206</b> [13] A1</p> <p>[51] <b>Int.Cl. 6A61K 47/36 6A61K 9/06 6A61K 31/19 6A61K 31/375</b> [25] EN [54] <b>LUBRICIOUS SELF-STANDING (INTACT) GEL FOR ORAL DELIVERY OF BIOLOGICALLY-ACTIVE INGREDIENTS</b> [54] <b>GEL LUBRIFIANT AUTONOME (INTACT) UTILE POUR APPORTER PAR VOIE ORALE DES INGREDIENTS BIOLOGIQUEMENT ACTIFS</b> [72] NIVAGGIOLI, Thierry, US [71] MONSANTO COMPANY, US [85] 1999-05-27 [86] 1997-11-28 (PCT/US97/21408) [87] 1998-06-04 (WO98/23292) [30] US (08/758,543) 1996-11-29</p>	<p style="text-align: right;">[21] <b>2,273,209</b> [13] A1</p> <p>[51] <b>Int.Cl. 6B01D 35/16 6B01D 29/68</b> [25] EN [54] <b>FILTER WITH COUNTER FLOW CLEARING</b> [54] <b>FILTRE A CLARIFICATION A CONTRE-FLUX</b> [72] OBST, Yuri, AU [71] UNIVERSITY OF SOUTH AUSTRALIA, AU [85] 1999-05-28 [86] 1997-12-01 (PCT/AU97/00807) [87] 1998-06-04 (WO98/23357) [30] AU (PO 3897) 1996-11-29</p>	<p style="text-align: right;">[21] <b>2,273,212</b> [13] A1</p> <p>[51] <b>Int.Cl. 6A47F 5/10</b> [25] EN [54] <b>REAR LOADING MERCHANDISE SHELVING ARRANGEMENT</b> [54] <b>AGENCEMENT DE RAYONNAGE POUR MARCHANDISES, A CHARGEMENT PAR L'ARRIERE</b> [72] WHITE, Marco J., US [71] THE COCA-COLA COMPANY, US [85] 1999-05-28 [86] 1997-11-25 (PCT/US97/21294) [87] 1998-06-04 (WO98/23192) [30] US (08/758,102) 1996-11-29</p>
<p style="text-align: right;">[21] <b>2,273,207</b> [13] A1</p> <p>[51] <b>Int.Cl. 6G01N 33/497 6G01N 31/22</b> [25] EN [54] <b>DEVICE FOR TRAPPING AND ASSAYING CARBON DIOXIDE AND METHOD OF USE</b> [54] <b>DISPOSITIF POUR CAPTURER ET DOSER LE DIOXIDE DE CARBONE ET PROCEDE D'UTILISATION</b> [72] NILSSON, Stefan, SE [71] NOSTER SYSTEM AB, SE [85] 1999-05-27 [86] 1997-12-01 (PCT/SE97/02011) [87] 1998-06-18 (WO98/26283) [30] SE (9604519-0) 1996-12-09</p>	<p style="text-align: right;">[21] <b>2,273,210</b> [13] A1</p> <p>[51] <b>Int.Cl. 6H03F 3/217</b> [25] EN [54] <b>CLASS D AMPLIFIER</b> [54] <b>AMPLIFICATEUR DE CATEGORIE D</b> [72] BACKRAM, Hans-Erik, SE [72] GUSTAFSSON, Börje, SE [72] BACKRAM, Lars, SE [71] GN NETCOM A/S, DK [85] 1999-05-28 [86] 1996-12-11 (PCT/DK96/00523) [87] 1998-06-18 (WO98/26501)</p>	<p style="text-align: right;">[21] <b>2,273,213</b> [13] A1</p> <p>[51] <b>Int.Cl. 6A47F 5/10</b> [25] EN [54] <b>ROSIN EMULSION INCLUDING STARCH DERIVATIVE FOR PAPER SIZING</b> [54] <b>EMULSION DE COLOPHANE CONTENANT UN DERIVE D'AMIDON POUR LE COLLAGE DU PAPIER</b> [72] ZETTER, Claes, FI [72] PHILLIPSON, Martin Derek, GB [72] VIHERVAARA, Tapio, FI [72] JAYCOCK, Michael James, GB [71] RAISIO CHEMICALS UK LTD., GB [85] 1999-05-28 [86] 1997-12-01 (PCT/GB97/03197) [87] 1998-06-11 (WO98/24972) [30] GB (9625006.3) 1996-11-30</p>

## PCT Applications Entering the National Phase

[21] **2,273,329**  
[13] A1

[51] **Int.Cl. 6C09D 5/02 6C09D 131/02 6C09D 5/20**  
[25] EN  
[54] **AQUEOUS PROTECTIVE COATING AGENT**  
[54] **AGENT DE RECOUVREMENT PROTECTEUR AQUEUX**  
[72] FRIGGE, Eva, DE  
[72] BREIDENBACH, Gerhard, DE  
[72] GUTTE, Richard, DE  
[72] BODE, Brigitte, DE  
[71] HERBERTS GMBH & CO. KG, DE  
[71] CLARIANT GMBH, DE  
[85] 1999-05-26  
[86] 1997-11-20 (PCT/EP97/06486)  
[87] 1998-06-04 (WO98/23692)  
[30] DE (196 49 263.7) 1996-11-28

[21] **2,273,330**  
[13] A1

[51] **Int.Cl. 6G05B 13/02 6B22D 11/16**  
[25] EN  
[54] **PROCESS FOR PARAMETERING A FUZZY AUTOMATON THAT COMPARES A MEASUREMENT SYSTEM TO A PATTERN SIGNAL**  
[54] **PROCEDE POUR PARAMETRER UN AUTOMATE A LOGIQUE FLOUE QUI COMPARE UN SIGNAL DE MESURE A UN SIGNAL MODELE**  
[72] ADAMY, Jürgen, DE  
[72] LORENZ, Steffen, DE  
[72] FREITAG, Joachim, DE  
[71] SIEMENS AKTIENGESELLSCHAFT, DE  
[85] 1999-05-26  
[86] 1997-11-18 (PCT/DE97/02703)  
[87] 1998-06-04 (WO98/24009)  
[30] DE (196 49 438.9) 1996-11-28

[21] **2,273,331**  
[13] A1

[51] **Int.Cl. 6A61F 9/007**  
[25] EN  
[54] **BIOLOGICAL MICROFISTULA TUBE AND IMPLANTATION METHOD AND APPARATUS**  
[54] **TUBE A MICROFISTULE BIOLOGIQUE, PROCEDE D'IMPLANTATION ET DISPOSITIF CORRESPONDANT**  
[72] MORGAN, William Huxley, AU  
[72] YU, Dao-Yi, AU  
[71] THE LIONS EYE INSTITUTE OF WESTERN AUSTRALIA INCORPORATED, AU  
[85] 1999-05-26  
[86] 1997-11-28 (PCT/AU97/00811)  
[87] 1998-06-04 (WO98/23237)  
[30] AU (PO 3944) 1996-11-29

[21] **2,273,332**  
[13] A1

[51] **Int.Cl. 6C08G 63/20 6C08L 67/02 6C08K 5/134**  
[25] EN  
[54] **MODIFIED 1,3-PROPANEDIOL-BASED POLYESTERS**  
[54] **POLYESTERS MODIFIES A BASE DE 1,3-PROPANEDIOL**  
[72] KELSEY, Donald Ross, US  
[71] SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., NL  
[85] 1999-05-26  
[86] 1997-11-26 (PCT/EP97/06699)  
[87] 1998-06-04 (WO98/23662)  
[30] US (08/756,595) 1996-11-27  
[30] US (08/757,197) 1996-11-27

[21] **2,273,333**  
[13] A1

[51] **Int.Cl. 6C07C 2/58 6B01J 38/56**  
[25] EN  
[54] **PROCESS FOR ALKYLATING HYDROCARBONS**  
[54] **PROCEDE D'ALKYLATION D'HYDROCARBURES**  
[72] VONHOF, Marco, NL  
[72] KLAVER, Gijsbertus, NL  
[72] BOGAARD, Pieter, NL  
[72] VAN BROEKHOVEN, Emanuel Hermanus, NL  
[72] MAS CABRÉ, Francisco René, NL  
[71] AKZO NOBEL N.V., NL  
[85] 1999-05-26  
[86] 1997-11-14 (PCT/EP97/06401)  
[87] 1998-06-04 (WO98/23560)  
[30] NL (1004623) 1996-11-27  
[30] US (60/031,542) 1996-12-02  
[30] EP (97202951.6) 1997-09-25

[21] **2,273,334**  
[13] A1

[51] **Int.Cl. 6C22C 38/00 6C21D 8/02**  
[25] EN  
[54] **HIGH-STRENGTH STEEL PLATE HAVING HIGH DYNAMIC DEFORMATION RESISTANCE AND METHOD OF MANUFACTURING THE SAME**  
[54] **PLAQUE D'ACIER A HAUTE RESISTANCE MECANIQUE DOTEE D'UNE FORTE RESISTANCE A LA DEFORMATION DYNAMIQUE ET PROCEDE DE FABRICATION CORRESPONDANT**  
[72] OKAMOTO, Riki, JP  
[72] WAKITA, Junichi, JP  
[72] KAWANO, Osamu, JP  
[72] TAKAHASHI, Manabu, JP  
[72] TAKAHASHI, Yuzo, JP  
[72] UENISHI, Akihiro, JP  
[72] MABUCHI, Hidesato, JP  
[71] NIPPON STEEL CORPORATION, JP  
[85] 1999-05-26  
[86] 1997-11-28 (PCT/JP97/04359)  
[87] 1998-06-04 (WO98/23785)  
[30] JP (8/331380) 1996-11-28  
[30] JP (9/28296) 1997-01-29  
[30] JP (9/223005) 1997-08-06  
[30] JP (9/258834) 1997-09-24  
[30] JP (9/258887) 1997-09-24

[21] **2,273,335**  
[13] A1

[51] **Int.Cl. 6C06B 31/28**  
[25] EN  
[54] **AMMONIUM NITRATE PROPELLANTS WITH MOLECULAR SIEVE**  
[54] **PROPULSEURS AU NITRATE D'AMMONIUM A TAMIS MOLECULAIRE**  
[72] FLEMING, Wayne C., US  
[72] McSPADDEN, Hugh J., US  
[72] OLANDER, Donald E., US  
[71] UNIVERSAL PROPULSION CO., INC., US  
[85] 1999-05-26  
[86] 1996-11-26 (PCT/US96/18874)  
[87] 1998-06-04 (WO98/23558)

## Demandes PCT entrant en phase nationale

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[21] **2,273,632**

[13] A1

[51] **Int.Cl. 6H04L 9/32**

[25] FR

[54] **PROCEDE DE SIGNATURE**

**NUMERIQUE**

[54] **DIGITAL SIGNATURE METHOD**

[72] JOUX, Antoine, FR

[71] ETAT FRANÇAIS REPRÉSENTÉ PAR

LE DÉLÉGUÉ GÉNÉRAL POUR

L'ARMEMENT, FR

[85] 1999-05-10

[86] 1998-12-10 (PCT/FR98/02680)

[87] 1999-06-18 ()

[30] FR (97.16061) 1997-12-18

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[21] **2,273,793**

[13] A1

[51] **Int.Cl. 6A61M 31/00 6A61M 25/09**

**6A61M 25/10**

[25] EN

[54] **ANGIOPLASTY CATHETER**

[54] **CATHETER D'ANGIOPLASTIE**

[72] TEITELBAUM, George P., US

[71] UNIVERSITY OF SOUTHERN

CALIFORNIA, US

[85] 1999-06-09

[86] 1997-12-16 (PCT/US97/23257)

[87] 1998-06-25 (WO98/26833)

[30] US (08/767,221) 1996-12-16

[30] US (08/906,890) 1997-08-06

## **PCT Applications Entering the National Phase**

## Canadian Laid-Open Applications Previously Unavailable for Publishing

### Demandes canadiennes mises à la disponibilité du public non disponibles auparavant pour publication

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[21] **2,272,129**  
[13] A1

[51] **Int.Cl. 6H01L 33/00**  
[25] EN  
[54] **SEMICONDUCTOR DEVICE HAVING REFLECTING LAYER**  
[54] **DISPOSITIF A SEMICONDUCTEUR A COUCHE REFLECHISSANTE**

[72] YAMAUCHI, Norikatsu, JP  
[72] SUSAWA, Hiromoto, JP  
[72] KATO, Toshihiro, JP  
[72] HIROTANI, Masumi, JP  
[72] SAKA, Takashi, JP  
[71] YAMAUCHI, Norikatsu, JP  
[71] DAIDO TOKUSHUKO KABUSHIKI KAISHA, JP

[22] 1991-11-04  
[43] 1992-05-03  
[62] 2,054,853  
[30] JP (2-298415) 1990-11-02  
[30] JP (2-301395) 1990-11-07  
[30] JP (3-45975) 1991-02-19  
[30] JP (3-87602) 1991-03-26  
[30] JP (3-125139) 1991-04-26  
[30] JP (3-216146) 1991-07-31

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[21] **2,273,138**  
[13] A1

[51] **Int.Cl. 6A23B 7/154 6A23N 12/02**  
[25] EN  
[54] **CLEANING METHODS AND COMPOSITIONS FOR FOOD- AND FEEDSTUFF**  
[54] **PROCEDES ET COMPOSITIONS DE LAVAGE DE PRODUITS ALIMENTAIRES CONSOMMES PAR LES HOMMES ET LES ANIMAUX**

[72] JONES, Kyle David, US  
[72] MURCH, Bruce Prentiss, US  
[72] ROSELLE, Brian Joseph, US  
[71] THE PROCTER & GAMBLE COMPANY, US

[22] 1994-10-26  
[43] 1995-05-11  
[62] 2,175,449  
[30] US (146,663) 1993-11-01  
[30] US (224,937) 1994-04-08  
[30] US (270,696) 1994-07-05  
[30] US (270,706) 1994-07-05  
[30] US (270,707) 1994-07-05  
[30] US (270,708) 1994-07-05  
[30] US (270,859) 1994-07-05  
[30] US (270,860) 1994-07-05

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[21] **2,273,502**  
[13] A1

[51] **Int.Cl. 6H01R 31/06 6H01R 9/09**  
[25] EN  
[54] **ELECTRONIC CONNECTION UNIT, FOR A PERSONAL COMPUTER, INCLUDING A CONNECTOR FOR A SMART CARD**  
[54] **UNITE DE CONNEXION ELECTRONIQUE POUR UN ORDINATEUR PERSONNEL, INCLUANT UNE CONNEXION POUR UNE CARTE A MEMOIRE**

[72] BRICAUD, Hervé, FR  
[72] BIERMANN, Werner, DE  
[71] ITT MANUFACTURING ENTERPRISES INC., US

[22] 1997-04-07  
[43] 1997-10-23  
[62] 2,221,890  
[30] FR (96/04842) 1996-04-18

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[21] **2,273,147**  
[13] A1

[51] **Int.Cl. 6C07D 417/12 6A61K 31/44**  
[25] EN  
[54] **SUBSTITUTED THIAZOLIDINEDIONE DERIVATIVES**  
[54] **DERIVES DE SUBSTITUTION DE THIAZOLIDINEDIONE**

[72] ROMAN, Robin Sherwood, GB  
[72] BRIGHTWELL, Malcolm David, GB  
[72] POOL, Colin Ripley, GB  
[72] TREMPER, Alan William, GB  
[71] SMITHKLINE BEECHAM P.L.C., GB

[22] 1993-09-01  
[43] 1994-03-17  
[62] 2,143,849  
[30] GB (9218830.9) 1992-09-05

## **Canadian Laid-Open Applications Previously Unavailable for Publishing**

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ARMSTRONG, Phillip A.	2,258,455	BLACKBURN, Raymond	2,224,981	CHEVALIER, Normand	2,222,924
ARNOLD, Gerhard	2,258,443	BLACKBURN, Raymond	2,258,314	CHILDRESS, Blaine C.	2,257,762
ASARI, Akira	2,259,773	BLANDING, Douglas	2,227,854	CHONG, Kam Hui	2,222,862
ASKMAN, Lars	2,251,392	BLOCK, Philip A.	2,259,707	CHORDASH, Richard Andrew	2,259,811
ATALLA, Samir	2,227,355	BMH WOOD TECHNOLOGY, INC.	2,227,566	CHRISTIANSEN, James	2,260,348
ATS AUTOMATION TOOLING SYSTEMS INC.	2,259,842	BOBST S.A.	2,259,757	CHU, Ta-Shing	2,258,828
AURORA COMMUNICATIONS EXCHANGE LTD.	2,227,392	BOILEAU, Michel A.	2,227,809	CLARIANT GMBH	2,260,168
AUWETER, Helmut	2,257,552	BOISVERT, Pierre	2,260,402	CLARIANT GMBH	2,260,169
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		BOSTICK, John G. (deceased)	2,256,301	CLAYSON, Stephen	2,227,846
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		BOUCHARD, Mario	2,222,937	COLE, Cora	2,220,888
		BOWE, Michael Damian	2,258,067	COLLIS, Matthew P.	2,259,742
		BOYER, Geoffrey	2,227,831	COLSON, Wendell B.	2,259,084
		BP CHEMICALS LIMITED	2,259,810	COMER SPA	2,258,467
		BRACCO INTERNATIONAL B.V.	2,259,804	COOK COMPOSITES AND POLYMERS COMPANY	2,259,763
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		BROWN, Stephen John	2,227,674		



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CRAWFORD, Paul	2,228,027	FANG, Zhigang	2,259,072	SERVICES, INC.	2,259,760
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CRYOVAC INC.	2,257,762	FERRAZ DATE INDUSTRIES	2,259,703	HAMBURG, Mark	2,259,805
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CZICHY, Reinhard Hanno	2,244,070	FETCHKO, Eric	2,259,891	HAN, Dong-hee	2,259,843
DACOR CORPORATION	2,259,087	FEUSSNER, Annette	2,259,724	HAN, Seung-kwon	2,259,840
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DIORIO, Joseph	2,259,706	Thomas	2,259,810	HERRON, Donn Michael	2,259,079
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DUGAS, Gerard G.	2,227,863	CORPORATION	2,258,351	KABUSHIKI KAISHA	2,259,790
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INC.	2,260,164	GUILLARD, Alain	2,259,857	SPEZIALHORGERÄTE	2,240,051
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ETHICON, INC.	2,259,709	GULF CANADA RESOURCES		TINENTAL INC./	
ETHICON, INC.	2,259,780	LTD.	2,227,382	TRANSCONTINENTAL	
ETHICON, INC.	2,259,781	HABISREITINGER, Walter	2,221,584	PRINTING INC.	2,224,762
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EUROKERA	2,259,677	HACKER, David M.	2,259,715	TINENTAL INC./	
EUROKERA	2,259,678	HAGA, Nobuo	2,259,790	TRANSCONTINENTAL	
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JIBB, Brian	2,220,885	LEVITON MANUFACTURING CO., INC.	2,259,868	McFADYEN, Andrew	2,259,854
JOHANSON, James A.	2,259,701	LEVITON MANUFACTURING CO., INC.	2,259,706	McFADYEN, Andrew	2,259,891
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