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OF

PATENTS

(ISSN 0819-1794)

Contents

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General Information

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GUIDE TO THE USE OF THIS JOURNAL

The Australian Official Journal of Patents (AOJP) reports all major events and actions which take place during the life cycle of an Australian patent and provides certain details of these actions as they relate to the patent or patent application involved. This guide sets out to teach the reader how to use the journal to access this information.

While there are many possible actions in the life of a patent, the majority of actions reported relate to the following events, which are the main stages in the progression of a patent application to a sealed patent:

(i) FILING -

This is the act of making an application. When the application is first filed certain details are published.

(ii) OPEN-TO-PUBLIC-INSPECTION (OPI) -

Approximately 18 months after first filing of an Australian or a corresponding foreign application, certain application documents, including the complete specification, become available to the public (Open-to-Public-Inspection or "OPI"). Relevant application details are published.

(iii) ACCEPTANCE –

This is the Commissioner's acceptance of a patent application. Once the Commissioner has accepted a patent application, certain details of the application are published in the AOJP. Notice of opposition may be filed within three months of advertisement of acceptance.

(iv) OPPOSITION –

If an opposition action is commenced against the grant of the patent, the six-figure acceptance number and the name of the opponent are published. If the opposition is to the Certification of an Innovation Patent, the patent number and the name of the opponent are published.

(v) SEALING –

Most accepted applications are not opposed. These proceed to sealing and become granted patents. Of the few that are opposed (less than 1%) most of these, after resolution of the opposition, proceed to sealing and become granted patents. Sealed patents are simply listed in order of their application number.

(vi) CERTIFICATION

This is the Commissioner's Certification after passing examination of a previously granted unexamined Innovation Patent.

In addition to the actions related to these stages, other actions reported include: assignments, lapsing or withdrawal of applications and ceasing or expiry of patents, voluntary amendments, extensions of time for certain actions and registration of licences.

How To Identify Information Using "INID" Numbers

Patents are published in many different countries and in many different languages. As a result, finding the information that you want (eg the filing date) on a patent document or in a journal can be quite difficult. There is an international system operating, however, which codifies this information in an unambiguous way, by assigning a specific number to each piece of information about the history of a patent. These numbers are called the **Internationally agreed Numbers for the Identification of Data** or INID numbers.

These numbers appear on all published patents and abstracts and are used throughout this journal to identify particular items of information. For example, the date on which a document is filed has the INID number (22), while the name of the applicant has the INID number of (71). These numbers are always expressed in parentheses and always immediately precede the information to which they relate. For example:

(22) 12.10.91

means that the filing date of the document which contains this reference is 12 October 1991. Learning the INID numbers for the information you want will help you find it quickly and easily.

A complete list of the INID numbers and the items to which they relate is provided at the end of this Guide.

How Australian Patent Documents are Numbered

Patent applications in Australia are assigned a number at the filing stage in their processing. Each Australian application will retain the same number throughout its life, though different numbers may be associated to the application. The number will incorporate the year of lodgment then a unique number within the appropriate range.

There will be number ranges for types of patents:
100,000 – 199,999 Innovation
200,000 – 799,999 Standard
800,000 – 899,999 Petty
900,000 – 999,999 Provisional

When searching for information and ordering documents it is vital that you understand the numbering systems.

1. **Provisional Applications** are given a ten-figure number

    e.g. 2002901123

    A provisional application number is identified by the INID number (21).

2. **Complete and Innovation Applications** are also given a ten-figure application number

    e.g. 2002200345 Standard

    2002100123 Innovation

There are prefixes applied to this number which indicate whether the application has been accepted:

A document corresponding to an unaccepted application has the prefix, AU-A; eg AU-A-2002200234.
A document corresponding to an accepted application carries the prefix AU-B; eg AU-B-2002200234.

Users need to be aware that an accepted document may differ from the corresponding unaccepted document. This is because amendment may occur between first publication (OPI) and second publication (acceptance).

A ten-figure application number is identified by the INID number (21).

NOTE: When ordering any patent document from us, whether accepted or not, please quote the ten-figure application number preceded by the appropriate prefix.

Arrangement of Information in the Journal

For each of the categories

(i) Provisional Applications Filed,

(ii) Complete Applications Filed,

iii) Applications Open to Public Inspection

(iv) Applications Entered National Phase

(v) Applications Accepted, and

(vi) Innovation Patent Certified.

The Journal lists the information published in that category in an alphabetical Name Index list based on the name of the applicant. These indices are useful if you wish to find information about applications made by a particular applicant.

In addition to the Name Index there is provided, for each of these categories, a Numerical Index This index lists the applications either in order of their five-figure Application Numbers, in the case of complete applications filed and applications OPI, or in order of their six-figure Document Number in the case of accepted applications. It provides, for each number, the name of the applicant. These indices are useful if you wish to track the progress of a particular patent application.

There are also IPC Indices provided for applications which are OPI and for applications which have been accepted. IPC stands for **I**nternational **P**atent **C**lassification. Each IPC "mark" is an alpha-numerical representation of a particular area of technology. These indices are in order of IPC mark, and within each mark provide either the five-figure application numbers of the application which are now OPI or the six-figure numbers of the cases now accepted. These indices are useful if you wish to check on patent activity in a particular technology.

Using the Indices

1. To Find Patent Information if You Know the Name of the Applicant.

Use the Name Indices. They will give you the following information identified by their INID number:

ITEM	INID No.
A) Provisional applications filed - Name Index	
The name of the applicant	(71)
The Provisional application number	(21)
The date of filing	(22)
The title of the invention	(54)

ITEM	INID No.
B) Complete applications filed - Name Index	
The name of the applicant	(71)
The number assigned to the application	(21)
The date of filing	(22)
Title of the invention	(54)
Number of priority document(s) if any	(31)
Date(s) of filing of priority documents	(32)
Country of which priority documents filed	(33)
PCT application number	(86)

ITEM	INID No.
C) Applications open to public inspection - Name Index	
The name of the applicant	(71)
The number of the document	(11)
The number assigned to the application	(21)
The date of filing	(22)
The title	(54)
The classification marks	(51)
Priority document number(s)	(31)
Date of filing of priority document(s)	(32)
Country in which priority document filed	(33)
Publication date of unexamined document	(43)
Inventors names if known	(72)
Patent Attorneys	(74)

ITEM	INID No.
D) Applications accepted - Name Index	
The name of the applicant	(71)
The number of the document	(11)
The number of the accepted document	(10)
The number assigned to the application	(21)
The date of filing	(22)
The title	(54)
The classification marks	(51)
PCT publication number	(87)
Priority document number	(31)
Date of filing of priority document(s)	(32)
Country in which priority document filed	(33)
Publication date of unexamined document	(43)

ITEM	INID No.
E) Patents Certified – Name Index	
The name of the applicant	(71)
The number of the accepted document	(10)
The number assigned to the application	(21)
The date of filing	(22)
The title	(54)
The classification marks	(51)
Priority document number	(31)
Date of filing of priority document(s)	(32)
Country in which priority document filed	(33)
Publication date of granted patent	(45)
Inventors names	(72)
Patent Attorneys	(74)
Related by division	(62)

You will notice at each stage of following application through that all applications are in alphabetical order of **Applicant**, not inventor.

2. To Find Information About a Patent Application if You Know its Number.

Use the appropriate numerical index. This will give you the name of the applicant from the number. You will then need to use the appropriate Name Index as above to find out other information about the Patent Application you are interested in.

The following Numerical Indices are available:

A) **Provisional** Applications filed.

B) **Complete** Applications filed.

C) Innovation Applications filed.

D) Applications **Open to Public Inspection.**

E) Applications **Accepted**.

F) Innovation Patent Certified

3. To Find Information About Patent Documents in the Area of Technology in which You are Interested if You Know the International Patent Classification Mark for that Area.

All patent applications are classified according to their subject matter using the International Patent Classification (IPC). Although the system is very detailed and covers all technologies, knowledge of the IPC marks of the technologies you are interested in will allow you to find patent documents in these technologies quite easily. To identify the IPC marks of technologies you are interested in, you can inspect relevant documentation in any of AIPO's state offices.

The indices to use are

A) Applications **OPI** - IPC Index

B) Applications **accepted** - IPC Index.

These indices give you the numbers of the applications which are either OPI or Accepted and are listed in order of their IPC marks.

Once you have the numbers of the documents that interest you, consult the relevant Number Index (see 2. above) to find the applicant's name, and then the Name Index (see 1. above) to find out the details of that application.

'INID' NUMBERS in use on Australian Patent Documents

'INID' is an acronym for '**I**nternationally agreed **N**umbers for the **I**dentification of **D**ata'.

(10) Document identification
- **(11)** Number of the document
- **(12)** Plain language designation of the kind of document
- **(19)** WIPO country code, or other identification, of the country publishing the document.

(20) Document filing data
- **(21)** Number(s) assigned to the application(s).
- **(22)** Date(s) of filing application(s)
- **(23)** Other date(s) of filing, including exhibition filing date and date of filing complete specification following provisional specification.
- **(24)** Date from which industrial property rights may have effect.

(30) Priority data
- **(31)** Number(s) assigned to priority application(s)
- **(32)** Date(s) of filing priority application(s)
- **(33)** Country (countries) in which the priority application(s) was (were) filed.

(40) Date(s) of making available to the public
- **(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.
- **(44)** Date of publication by printing or similar process of an examined document, on which no grant has taken place on or before the said date.
- **(45)** Date of publication by printing or similar process of a document, on which grant or certification has taken place on or before the said date.

(50) Technical Information
- **(51)** International Patent Classification
- **(52)** Domestic or national classification

(54) Title of invention
(56) List of prior art documents, if separate from descriptive text
(57) Abstract or claim

(60) Reference(s) to other legally related domestic document(s)
(60) Related by cognate(s).
(61) Related by addition(s).
(62) Related by division(s).

(70) Identification of parties concerned with the document
(71) Name(s) of applicant(s)
(72) Name(s) of inventor(s) if know to be such
(74) Name(s) of attorney(s) or agent(s)
(75) Name(s) of inventor(s) who is (are) also applicant(s)

(80) Identification of data related to International Conventions other than the Paris Convention
(86) PCT Application Number
(87) PCT Publication Number

NOTE

(1) Australian patent documents published on or after 26 October 1978 should be referred to by the application number preceded by the prefix AU-A or AU-B.

AU-A = Pre-examination **AU-B** = Post-examination

(2) The classification used is the International Patent Classification and is identified by the INID code (51). Further editions of the classification are identified as $(51)_2$, $(51)_3$, $(51)_4$ and $(51)_5$.

(3) INID code 74 provides for the name of the patent attorney, or firm of attorneys, prosecuting an application.

Official Notice

IP Australia's Brisbane Sub-Office

IP Australia is pleased to advise all customers that it has engaged Australia Post to deliver its new state based lodgement service arrangements. These services include the lodgement of documents and payment of fees relating to registered IP rights and new applications.

For the purposes of section 205(2) of the Patents Act 1990, section 199(2) of the Trade Marks Act 1995 and section 125(2) of the Designs Act 2003, effective from 6 April 2010, the Brisbane sub-office is:

IP Lodgement Point
Brisbane GPO
261 Queen Street
Brisbane QLD 4000

From 6 April 2010 the lodgement of documents and payment of official fees in Brisbane can only be made at the above address. The filing date and/or payment date will be the date the lodgement and/or payment is made at the Brisbane GPO.

Consistent with existing legislative requirements, this service will be available from 9.00am – 5.00pm Monday to Friday, except for public holidays.

Unfortunately the new arrangements do not allow for Plant Breeder's Rights lodgements with Australia Post. To address this issue IP Australia has developed a comprehensive new range of fillable forms which can be found at http://www.ipaustralia.gov.au/pbr/forms.shtml.

Plant Breeder's Rights forms, payments or other correspondence can continue to be lodged directly at IP Australia in Canberra to PO Box 200 Woden ACT 2606; or by fax to +61 2 6283 7999.

For further information please visit: http://www.ipaustralia.gov.au/about/state_transition.shtml

Contact: IP Australia
Phone: 1300 651 010
Fax: +61 2 6283 7999
E-mail: servicetransition@ipaustralia.gov.au
Web: www.ipaustralia.gov.au

ABSTRACTS OF DECISIONS

DECISION OF A DELEGATE OF THE COMMISSIONER OF PATENTS

Application	:	No. **2007101011** and **2007101012** in the name of **Osmose (Australia) Pty Limited**
Title	:	Superficial Treatment for Wood and Wood Products (011) Envelope Treatment of Wood and Wood Products (012)
Action	:	Opposition by Timtech Chemicals Pty Ltd to a request to amend the Register under Reg. 10.7(1)(a)(i) by Osmose (Australia) Pty Limited
Decision	:	Issued 17 March 2010

Abstract

Clerical Error: Applicant sought to remove a co-inventor from the Register for reasons of clerical error. The attorney's assistant inadvertently transcribed incorrect information into an electronic database. The error was subsequently transferred to later cases.

The incorrect entry of data, or incorrect transcription of any kind, which in itself is clearly a clerical error and which is subsequently repeated downstream is a consideration in the operation of Reg 10.7. That is, an error that arises as a consequence of a clerical error, albeit remotely, is capable of correction. There is no temporal limitation placed on the operation of Reg 10.7.

Clerical error established.

Costs: Costs awarded against Timtech.

Proceedings under the Patents Act 1990

Provisional Applications Filed

Name Index

Applications listed below were processed through the Patent Office Canberra during the period ending 9 Mar 2010.

Actinogen Limited see Zohar, D.
(21) 2010901057

(71) Adds Up Engineering Pty. Ltd.
(21) 2010900890 **(22)** 03.03.2010
(54) An Oscillating Fan Sprayer

(71) Advanced Surgical Design & Manufacture Limited
(21) 2010900966 **(22)** 09.03.2010
(54) Total knee trochlear system

(71) Agritechnology Pty Ltd
(21) 2010901007 **(22)** 11.03.2010
(54) Reduced alcohol wine process and product

Angelopoulos, F. see Vrahas, P.
(21) 2010901026

(71) Aqua Diagnostic Pty Ltd
(21) 2010900885 **(22)** 03.03.2010
(54) Water Analysis Cell

(71) Asgard Industries Pty. Limited
(21) 2010901012 **(22)** 11.03.2010
(54) Improved shower base

(71) Assembly Electronics Pty Ltd
(21) 2010900929 **(22)** 05.03.2010
(54) Cable Organiser

(71) Associated Controls (Australia) Pty Ltd
(21) 2010900955 **(22)** 08.03.2010
(54) Lighting apparatus

(71) Australian Nuclear Science and Technology Organisation
(21) 2010900900 **(22)** 03.03.2010
(54) Gallium-68 purification

(71) Australian Nuclear Science and Technology Organisation
(21) 2010900902 **(22)** 03.03.2010
(54) Sorbent material

(71) Australian Tube Mills Pty Limited
(21) 2010900956 **(22)** 08.03.2010
(54) Pole

(71) Autech Research Pty Ltd
(21) 2010900944 **(22)** 06.03.2010
(54) Mr

(71) Axxin Pty Ltd
(21) 2010901065 **(22)** 12.03.2010
(54) Thermocycling and Diagnostic Test Method

Bacon, S. see Bacon, D.
(21) 2010900995

(71) Bacon, D. ; Bacon, S.
(21) 2010900995 **(22)** 10.03.2010
(54) Outlet fitting for a heating or cooling duct

(71) Baker, W.
(21) 2010901038 **(22)** 12.03.2010
(54) Assembly for removing magnetic materials from a product flow

(71) Bannink, A.
(21) 2010901037 **(22)** 12.03.2010
(54) Sharing Strap

(71) Bartels, R.
(21) 2010900945 **(22)** 07.03.2010
(54) Growing systems for efficient harvesting

(71) Bellson Electric Pty Ltd
(21) 2010900951 **(22)** 08.03.2010
(54) Improvements in light installations for swimming pools and like structures

(71) Belpray Pty Ltd
(21) 2010900921 **(22)** 04.03.2010
(54) Boat hull

(71) BHP Billiton Aluminium Technologies Limited
(21) 2010900996 **(22)** 10.03.2010
(54) Secondary heat recovery using Thermoelectric/Thermomagnetic device

(71) Bluescope Steel Limited
(21) 2010901030 **(22)** 12.03.2010
(54) Casting Delivery Nozzle

(71) Breville Pty Limited
(21) 2010901024 **(22)** 12.03.2010
(54) Conical Burr Grinder

(71) Brewster, G.
(21) 2010901002 **(22)** 11.03.2010
(54) Flog flap

(71) Brien Holden Vision Institute
(21) 2010900903 **(22)** 03.03.2010
(54) Corneal remodelling contact lenses and methods of treating refractive error using corneal remodelling

(71) Brien Holden Vision Institute
(21) 2010900904 **(22)** 03.03.2010
(54) Contact lenses for myopic eye and

Provisional Applications Filed - Name Index cont'd

methods of treating myopia

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(71) Britax Childcare Pty Ltd
(21) 2010900941 **(22)** 05.03.2010
(54) Harness buckle assembly improvements

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(71) Bromic Pty Limited
(21) 2010900896 **(22)** 03.03.2010
(54) Wind resistant heater

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(71) Brown, A.
(21) 2010901034 **(22)** 12.03.2010
(54) A Cover

Calix Ltd see Sceats, M.
(21) 2010901062

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(71) Campbell, G.
(21) 2010901008 **(22)** 11.03.2010
(54) Magnetic surfboard holder straps

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(71) Cassels, D.
(21) 2010900899 **(22)** 03.03.2010
(54) A mains power distribution point

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(71) Causeueffect
(21) 2010900946 **(22)** 08.03.2010
(54) Australian online Charity Auctions

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(71) Cave, J.
(21) 2010900906 **(22)** 04.03.2010
(54) Apparatus for Raising Liquid

---

(71) CBC Australia Pty Limited
(21) 2010900998 **(22)** 10.03.2010
(54) A sealing ring

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(71) Chadwick, B.
(21) 2010900954 **(22)** 08.03.2010
(54) A drainage assembly

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(71) Chan, J.
(21) 2010901048 **(22)** 15.03.2010
(54) A Box

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(71) Chandler, D. ; Trenwell Agriculture Pty Ltd
(21) 2010901067 **(22)** 16.03.2010
(54) Growth Promoting Formulations for Farm Animals

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(71) Children's Cancer Institute Australia for Medical Research
(21) 2010900897 **(22)** 03.03.2010
(54) Skin cancer prevention and treatment

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(71) Chua, J.
(21) 2010901005 **(22)** 11.03.2010
(54) Method Of Making Clear Plastic Banknote Window Opaque To Infrared Detectors Using Nanoparticles

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(71) Chua, J.
(21) 2010901019 **(22)** 12.03.2010
(54) Method Of Making Clear Plastic Banknote Opaque To Infrared Detectors Using Nanoparticles (2)

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(71) Cirej, W.
(21) 2010901047 **(22)** 15.03.2010
(54) Golf ball

Cobden, R. see Cobden, K.
(21) 2010900883

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(71) Cobden, K. ; Cobden, R.
(21) 2010900883 **(22)** 03.03.2010
(54) Wind turbine

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(71) Cole, A.
(21) 2010900982 **(22)** 10.03.2010
(54) A turbine apparatus

---

(71) Cole, P.
(21) 2010901060 **(22)** 05.03.2010
(54) Hardcoat Durable Soil-Coating and Application Process

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(71) Commonwealth Scientific and Industrial Research Organisation
(21) 2010900961 **(22)** 09.03.2010
(54) Method and System for Energy-Efficient GPS Localisation

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(71) Commonwealth Scientific and Industrial Research Organisation
(21) 2010901014 **(22)** 11.03.2010
(54) Local intensity method and system for pathology detection

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(71) Cooper, J.
(21) 2010900986 **(22)** 10.03.2010
(54) An improved power dolly and multicombination vehicle incorporating the same

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(71) Copeland, D.
(21) 2010900925 **(22)** 05.03.2010
(54) Electric Generator Green Turbine

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(71) Cunningham, S.
(21) 2010900892 **(22)** 03.03.2010
(54) Renewable Energy Power Plants

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(71) Cura, S.
(21) 2010901027 **(22)** 12.03.2010
(54) A plinth plug

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(71) Curtin University of Technology
(21) 2010900978 **(22)** 09.03.2010
(54) A diagnostic test for fibrosis-related diseases

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(71) Delic, J. ; Papayianneris, S.
(21) 2010900934 **(22)** 05.03.2010
(54) Safety Barrier

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(71) Deliopoulos, P.
(21) 2010900928 **(22)** 05.03.2010
(54) Electrical Cable Tag Cover

Dematec Automation Pty Ltd see Meat & Livestock Australia Limited
(21) 2010901050

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(71) Diebold Physical Security Pty Ltd
(21) 2010900893 **(22)** 03.03.2010
(54) Blast resistant safe

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(71) Dimerix Bioscience Pty Ltd
(21) 2010901029 **(22)** 12.03.2010
(54) Novel Receptor Hetero-Dimers

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(71) doq Pty Ltd
(21) 2010900952 **(22)** 08.03.2010
(54) Barcode advertising

---

(71) Dwyer, S.
(21) 2010900918 **(22)** 04.03.2010
(54) Bale handling equipment

---

(71) Edmonds, I.
(21) 2010900959 **(22)** 09.03.2010
(54) Reciprocating balloon engine for electrical energy generation and water conservation

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(71) Edwards, D.
(21) 2010901056 **(22)** 15.03.2010
(54) AutoMed

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(71) Element Design International Pty Ltd
(21) 2010901011 **(22)** 11.03.2010

Provisional Applications Filed - Name Index cont'd

(54) Partition structure and system

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(71) Environmental Biotechnology CRC Pty Limited
(21) 2010900901 **(22)** 03.03.2010
(54) Reactor setup

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(71) Esnouf, P.
(21) 2010900895 **(22)** 03.03.2010
(54) Collapsible Pressure Reservoir

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(71) Eunexus Pty Ltd
(21) 2010900933 **(22)** 05.03.2010
(54) A system and method for detecting fraud

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(71) Exodus R & D Pty Ltd
(21) 2010901045 **(22)** 15.03.2010
(54) A twin rotor pump, motor and/ or drive assembly

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(71) Fansa, S. ; Hughes, B.
(21) 2010900983 **(22)** 10.03.2010
(54) Sticky socks

---

(71) Fero Strata Systems Pty Ltd
(21) 2010900979 **(22)** 09.03.2010
(54) Friction Stabiliser

---

(71) Fritz, P.
(21) 2010900930 **(22)** 05.03.2010
(54) Mineral ore processing apparatus and method

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(71) Glavas, Z.
(21) 2010900965 **(22)** 09.03.2010
(54) ZIG21RM

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(71) Glueck, B.
(21) 2010901058 **(22)** 16.03.2010
(54) Milk tea bag

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(71) Golden Dragon Traditional Chinese Medicine Centre Pty Ltd
(21) 2010900935 **(22)** 05.03.2010
(54) Herbal remedies and method of preparing herbal remedies

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(71) Gomez, R.
(21) 2010900974 **(22)** 09.03.2010
(54) Advanced coal upgrading process for a power station-II

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(71) Gorry, K.
(21) 2010901053 **(22)** 15.03.2010
(54) Beer app

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(71) grahta
(21) 2010901036 **(22)** 14.03.2010
(54) Visual Clustering

Griffith, O. see Griffith, R.
(21) 2010900878

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(71) Griffith, R. ; Griffith, O.
(21) 2010900878 **(22)** 02.03.2010
(54) Wall

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(71) Hanchard Cranes Pty Ltd
(21) 2010901013 **(22)** 11.03.2010
(54) A safety unit and method of use

---

(71) Hanna, P.
(21) 2010901040 **(22)** 14.03.2010
(54) eRaffle

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(71) Hanna, P.
(21) 2010901041 **(22)** 14.03.2010
(54) Designer.line

---

(71) Hazelton, R.
(21) 2010900894 **(22)** 03.03.2010
(54) Adjustable hand trolley

---

(71) Healey, A.
(21) 2010900967 **(22)** 09.03.2010
(54) A means for charging electric car batteries

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(71) Heffernan, D.
(21) 2010900950 **(22)** 08.03.2010
(54) A Mounting System

---

(71) Hennequin, I.
(21) 2010901042 **(22)** 15.03.2010
(54) Mat folding as a bag

---

(71) Hills Industries Limited
(21) 2010900940 **(22)** 05.03.2010
(54) Clothesline arm improvements

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(71) Hogan, J.
(21) 2010900971 **(22)** 09.03.2010
(54) Financial instrument

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(71) Houston, M.
(21) 2010901049 **(22)** 15.03.2010
(54) Light Diffuser

Hughes, B. see Fansa, S.
(21) 2010900983

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(71) Hunter, G.
(21) 2010900898 **(22)** 03.03.2010
(54) Rotary Engine

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(71) iDataMap Pty Ltd
(21) 2010900908 **(22)** 04.03.2010
(54) Method of Secure Data Access for A Trusted Group of Individuals

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(71) Innovative Motorcycle Technology Pty Ltd
(21) 2010901066 **(22)** 15.03.2010
(54) Duel function control for clutch and brake systems

---

(71) Jarvis, H.
(21) 2010900994 **(22)** 10.03.2010
(54) An agriculture share

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(71) Jeffries, P.
(21) 2010900977 **(22)** 09.03.2010
(54) Evaporation controlling platform

Jenkins, J. see Jenkins, G.
(21) 2010900947

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(71) Jenkins, G. ; Jenkins, J.
(21) 2010900947 **(22)** 08.03.2010
(54) Shade sail design system

Jervios, E. see Jervios, E.
(21) 2010901009

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(71) Jervios, E. ; Jervios, E.
(21) 2010901009 **(22)** 11.03.2010
(54) Laser tag gun

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(71) Jing, H.
(21) 2010900962 **(22)** 09.03.2010
(54) Improved Wall System

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(71) JJABB Pty Ltd
(21) 2010901023 **(22)** 12.03.2010
(54) Business Transaction and Trading Incentive System including Credit Units or Points.

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(71) Johnson, C.
(21) 2010900889 **(22)** 03.03.2010
(54) Heated Airfoil Coil

Provisional Applications Filed - Name Index cont'd

(71) JRB Engineering Pty Ltd
(21) 2010900993 **(22)** 10.03.2010
(54) Method and Apparatus for Magnetic Crack Depth Prediction

(71) Kelleher, H.
(21) 2010900886 **(22)** 03.03.2010
(54) Solar powered numerals and letters

(71) Kelleher, H.
(21) 2010900927 **(22)** 05.03.2010
(54) Improved toilet grab rail support

(71) Kho, P.
(21) 2010900990 **(22)** 10.03.2010
(54) Anti Blowout Apparatus

(71) King, D.
(21) 2010901006 **(22)** 11.03.2010
(54) The Green Property List

Kingi, T. see Kingi, P.
(21) 2010901003

(71) Kingi, P. ; Kingi, T.
(21) 2010901003 **(22)** 11.03.2010
(54) An apparatus for storing and transporting fishing tackle

Kirchner, R. see Kirchner, R.
(21) 2010901054

(71) Kirchner, R. ; Kirchner, R.
(21) 2010901054 **(22)** 15.03.2010
(54) Tow Mount

(71) Krueger Transport Equipment Pty Ltd
(21) 2010901033 **(22)** 12.03.2010
(54) Curtained cargo enclosures

(71) Larkin, B.J.
(21) 2010900976 **(22)** 09.03.2010
(54) Removable wiper system for boat clears

(71) Legrand Australia Pty Ltd
(21) 2010900980 **(22)** 09.03.2010
(54) Mounting Bracket

(71) Lobster Harvest Pty Ltd
(21) 2010901028 **(22)** 12.03.2010
(54) Aquaculture Tank

(71) Lock Box Pty Ltd
(21) 2010900973 **(22)** 09.03.2010
(54) Method and System for Sharing Encrypted Content

(71) Loukeris, P.
(21) 2010900958 **(22)** 09.03.2010
(54) A seal

(71) Lynch, D.
(21) 2010900992 **(22)** 10.03.2010
(54) Key Ring Mate

(71) Manrex Pty. Ltd.
(21) 2010901016 **(22)** 11.03.2010
(54) Header Sheet Control of Dispenser

(71) Manrex Pty. Ltd. ; QEM, Inc.
(21) 2010901017 **(22)** 11.03.2010
(54) Bounce Prevention

(71) McDonald, M.
(21) 2010901052 **(22)** 15.03.2010
(54) Play Dough Mixer

(71) McGrath, B.
(21) 2010901025 **(22)** 12.03.2010
(54) Sensor controlled automated window system

(71) McNair, J.
(21) 2010901046 **(22)** 15.03.2010
(54) Fluid Preheater System

(71) Meat & Livestock Australia Limited ; Dematec Automation Pty Ltd
(21) 2010901050 **(22)** 15.03.2010
(54) A meat processing apparatus and method of using same

(71) Miers, D.
(21) 2010900923 **(22)** 05.03.2010
(54) Lower limb muscle aid

Mitkovic, B. see Soury, S.
(21) 2010901063

(71) Moens, G.
(21) 2010900963 **(22)** 09.03.2010
(54) Wheel mounted screeding device

(71) Mooney, D.
(21) 2010900912 **(22)** 04.03.2010
(54) Language translation system for a mobile phone

Moore, G. see Moore, J.
(21) 2010900884

(71) Moore, J. ; Moore, G.
(21) 2010900884 **(22)** 03.03.2010
(54) Vertical Gang Mold for Production of Precast Concrete Panels

(71) Nano-Nouvelle Pty Ltd
(21) 2010901020 **(22)** 11.03.2010
(54) Batteries

(71) Nano-Nouvelle Pty Ltd
(21) 2010901021 **(22)** 11.03.2010
(54) Solar Cells

(71) Nano-Nouvelle Pty Ltd
(21) 2010901022 **(22)** 11.03.2010
(54) Membrane Material

(71) National ICT Australia Limited
(21) 2010900948 **(22)** 08.03.2010
(54) Supervised DNA-sequence Annotation within species expansion, interspecies transfer and testing methods

(71) Neumann, E.
(21) 2010900953 **(22)** 08.03.2010
(54) Disposable Nappy and Bag

(71) Newcastle Innovation Limited
(21) 2010901015 **(22)** 11.03.2010
(54) Systems and methods for signal precoding to control transmit-receive complexity in digital communication and signal processing

(71) Nierop, K.
(21) 2010900907 **(22)** 04.03.2010
(54) Ezypark car turntable

(71) Odell, J.
(21) 2010901043 **(22)** 15.03.2010
(54) Rotating Mounting Feet

(71) Ofidium Pty Ltd
(21) 2010900922 **(22)** 05.03.2010
(54) Method and System for Non-Linearity Compensation in Optical Transmission Systems

Provisional Applications Filed - Name Index cont'd

(71) Ofidium Pty Ltd
(21) 2010900924 **(22)** 05.03.2010
(54) Method and System for Non-Linearity Compensation in Optical Transmission Systems

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(71) Outwit Outplay Outlast Pty Ltd
(21) 2010901031 **(22)** 12.03.2010
(54) Skipping Rope and Skipping Rope Handle

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(71) Paltronics Australasia Pty Limited
(21) 2010900988 **(22)** 10.03.2010
(54) Method and Apparatus for Awarding at least one Jackpot Prize

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Papayianneris, S. see Delic, J.
(21) 2010900934

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(71) Papi, L.
(21) 2010900957 **(22)** 08.03.2010
(54) Delivery device

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(71) Pario Pomum Pty Ltd
(21) 2010900910 **(22)** 04.03.2010
(54) Processes for generating loans and financing a property, computer executable steps for generating loans and financing a property, a computer adapted for generating loans and financing a property

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(71) Phebra Pty Ltd
(21) 2010900917 **(22)** 04.03.2010
(54) Novel compositions of dexmedetomidine

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(71) Pinches, B.
(21) 2010900972 **(22)** 09.03.2010
(54) Social networking system

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(71) Pressler, N.
(21) 2010900985 **(22)** 10.03.2010
(54) Hair Conditioner

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(71) Prospectors Earth Sciences Pty Ltd
(21) 2010900960 **(22)** 09.03.2010
(54) Improved Core Tray

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(71) Protector Aluminium Pty Ltd
(21) 2010901059 **(22)** 15.03.2010
(54) Fencing system

QEM, Inc. see Manrex Pty. Ltd.
(21) 2010901017

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(71) QR Limited
(21) 2010900880 **(22)** 02.03.2010
(54) A Railroad Crossing Warning System

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(71) QR Limited
(21) 2010900881 **(22)** 02.03.2010
(54) A Railroad Crossing

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(71) Ram, S.
(21) 2010900911 **(22)** 04.03.2010
(54) Hand flexer - Acu flex

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(71) Rapid Building Systems Pty Ltd
(21) 2010900975 **(22)** 09.03.2010
(54) Water repellent plaster compositions

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(71) Red Hot International Pty Limited
(21) 2010901039 **(22)** 12.03.2010
(54) Facilitating transactions between parties

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(71) Rickman, J.
(21) 2010901055 **(22)** 15.03.2010
(54) Self Returnng Heavy Duty Sprinkler Connection

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(71) Rickman, J.
(21) 2010901061 **(22)** 16.03.2010
(54) Multi Stepped Recess for Plasterboard and Drywall

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(71) Rinstrum Pty Ltd
(21) 2010900888 **(22)** 24.02.2010
(54) Instrument commissioning split payment method

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(71) Roberts, R.
(21) 2010900905 **(22)** 04.03.2010
(54) Bottle spout

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(71) Robinson, A.
(21) 2010900926 **(22)** 05.03.2010
(54) A collective global classified directory of video messages and notices, personalised select catergories for media and internet

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(71) Robinson, J.
(21) 2010900987 **(22)** 09.03.2010
(54) A Building Panel Fabrication System

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(71) Sadler, W.
(21) 2010900914 **(22)** 04.03.2010
(54) Slab production and processing

---

(71) Sceats, M. ; Calix Ltd
(21) 2010901062 **(22)** 16.03.2010
(54) System For Distributed Carbon Capture

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(71) Segal, P.
(21) 2010900891 **(22)** 03.03.2010
(54) Virtual wall

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(71) Settle, M.
(21) 2010900916 **(22)** 04.03.2010
(54) A driver education system

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(71) Severn, R.
(21) 2010901035 **(22)** 14.03.2010
(54) Electronic Monitoring and Security Device

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(71) Shapley, F.
(21) 2010901044 **(22)** 15.03.2010
(54) Vehicle Mounted Fuel Additive Dosing System

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(71) Signostics Limited
(21) 2010900919 **(22)** 05.03.2010
(54) Operator movement compensated scanning method and apparatus

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(71) Simpliform
(21) 2010900920 **(22)** 04.03.2010
(54) A presentation and storage system

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(71) Smart Openers Pty Ltd
(21) 2010900939 **(22)** 05.03.2010
(54) Door, Gate or Barrier Opener

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(71) Smith, T.
(21) 2010900991 **(22)** 10.03.2010
(54) Rip saver

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(71) Solexus P/L
(21) 2010900984 **(22)** 10.03.2010
(54) Solar thermal heating system

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(71) Soury, S. ; Mitkovic, B.
(21) 2010901063 **(22)** 15.03.2010
(54) Distributed Vehicle Service System and Method

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(71) Superwall Systems Pty Ltd
(21) 2010900915 **(22)** 04.03.2010
(54) Rainwater Flow Diverter

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(71) Swell Cast Pty Limited ; Wood, D.
(21) 2010900949 **(22)** 08.03.2010
(54) Fin system

Provisional Applications Filed - Name Index cont'd

(71) Taddel United Pty Ltd
(21) 2010900931 **(22)** 05.03.2010
(54) Stair Tread Mounting Device

(71) Tasman-Warajay Pty Ltd
(21) 2010901000 **(22)** 10.03.2010
(54) Improved belt plough

(71) Technological Resources Pty. Limited
(21) 2010900997 **(22)** 10.03.2010
(54) A material supply process and apparatus

(71) The University of Sydney
(21) 2010900887 **(22)** 23.02.2010
(54) Protein domains and uses therefor-II

(71) Thompson, J.
(21) 2010901004 **(22)** 11.03.2010
(54) Garment for ostymates

(71) Thompson Couplings Limited
(21) 2010901064 **(22)** 15.03.2010
(54) A Misalignment-tolerant Coupling

(71) Thow, V.
(21) 2010900909 **(22)** 04.03.2010
(54) Toe and Finger Wrap (Quad Strips)

Trenchard, R. see Trenchard, M.
(21) 2010900932

(71) Trenchard, M. ; Trenchard, R.
(21) 2010900932 **(22)** 05.03.2010
(54) A biodegradable agricultural mulch film

Trenwell Agriculture Pty Ltd see Chandler, D.
(21) 2010901067

(71) Trevisan, T.
(21) 2010900970 **(22)** 09.03.2010
(54) Tino trevisan

(71) Turchin, G.
(21) 2010901010 **(22)** 11.03.2010
(54) Transformation of sea water to drinking water

(71) Twidale, J.
(21) 2010900913 **(22)** 04.03.2010
(54) Tambag

(71) Twidale, J.
(21) 2010900969 **(22)** 09.03.2010
(54) Tambag

(71) Vaughan, J.
(21) 2010900981 **(22)** 09.03.2010
(54) Support System

(71) Vrahas, P. ; Angelopoulos, F.
(21) 2010901026 **(22)** 12.03.2010
(54) Interactive Hosted Internet System

(71) Weir Minerals Australia Ltd
(21) 2010900942 **(22)** 05.03.2010
(54) Thermal treatment of white iron

(71) Weir Minerals Australia Ltd
(21) 2010900943 **(22)** 05.03.2010
(54) Pump intake device

(71) Wigley, J.
(21) 2010901051 **(22)** 15.03.2010
(54) Shopping List Holder

(71) Wilding, S.
(21) 2010900964 **(22)** 09.03.2010
(54) Wireless trailer lighting

(71) Wilkins, T.
(21) 2010901018 **(22)** 12.03.2010
(54) Laser-multi-cam

Wood, D. see Swell Cast Pty Limited
(21) 2010900949

(71) Wood Appeal Pty Ltd
(21) 2010900999 **(22)** 10.03.2010
(54) A Rack System

(71) Worissfield Pty Ltd
(21) 2010901001 **(22)** 10.03.2010
(54) A Locking Device

(71) Xtralis Technologies Ltd
(21) 2010900936 **(22)** 05.03.2010
(54) Improved dust discrimination for sensing systems

(71) Xtralis Technologies Ltd
(21) 2010900937 **(22)** 05.03.2010
(54) Particle precipitator

(71) Xtralis Technologies Ltd
(21) 2010900938 **(22)** 05.03.2010
(54) Filter bypass

(71) Xtralis Technologies Ltd
(21) 2010901032 **(22)** 12.03.2010
(54) A detector

(71) Yeomans, A.
(21) 2010900989 **(22)** 10.03.2010
(54) Solar energy concentrators

(71) York, B.
(21) 2010900882 **(22)** 03.03.2010
(54) Mandrill with rollers to form and weld cross sectional shapes with void space(s)

(71) York, B.
(21) 2010900968 **(22)** 09.03.2010
(54) Beam extension and superstructure adjustment mechanism for a catamaran

(71) ZEGO Pty Limited
(21) 2010900879 **(22)** 02.03.2010
(54) A method and apparatus for constructing a building structure

(71) Zohar, D. ; Actinogen Limited
(21) 2010901057 **(22)** 15.03.2010
(54) Bio leaching of ore deposits with microbial systems

Numerical Index

Provisional Applications Filed - Numerical Index cont'd

2010901018 Wilkins, T.
2010901019 Chua, J.
2010901020 Nano-Nouvelle Pty Ltd
2010901021 Nano-Nouvelle Pty Ltd
2010901022 Nano-Nouvelle Pty Ltd
2010901023 JJABB Pty Ltd
2010901024 Breville Pty Limited
2010901025 McGrath, B.
2010901026 Vrahas, P. ; Angelopoulos, F.
2010901027 Cura, S.
2010901028 Lobster Harvest Pty Ltd
2010901029 Dimerix Bioscience Pty Ltd
2010901030 Bluescope Steel Limited
2010901031 Outwit Outplay Outlast Pty Ltd
2010901032 Xtralis Technologies Ltd
2010901033 Krueger Transport Equipment Pty Ltd
2010901034 Brown, A.
2010901035 Severn, R.
2010901036 grahta
2010901037 Bannink, A.
2010901038 Baker, W.
2010901039 Red Hot International Pty Limited
2010901040 Hanna, P.
2010901041 Hanna, P.
2010901042 Hennequin, I.
2010901043 Odell, J.
2010901044 Shapley, F.
2010901045 Exodus R & D Pty Ltd
2010901046 McNair, J.
2010901047 Cirej, W.
2010901048 Chan, J.
2010901049 Houston, M.
2010901050 Meat & Livestock Australia Limited ; Dematec Automation Pty Ltd
2010901051 Wigley, J.
2010901052 McDonald, M.
2010901053 Gorry, K.
2010901054 Kirchner, R. ; Kirchner, R.
2010901055 Rickman, J.
2010901056 Edwards, D.
2010901057 Zohar, D. ; Actinogen Limited
2010901058 Glueck, B.
2010901059 Protector Aluminium Pty Ltd
2010901060 Cole, P.
2010901061 Rickman, J.
2010901062 Sceats, M. ; Calix Ltd
2010901063 Soury, S. ; Mitkovic, B.
2010901064 Thompson Couplings Limited
2010901065 Axxin Pty Ltd
2010901066 Innovative Motorcycle Technology Pty Ltd
2010901067 Chandler, D. ; Trenwell Agriculture Pty Ltd

Complete Applications Filed

Name Index

Applications listed below were processed through the Patent Office Canberra during the period ending 9 Mar 2010.

. (*) Title not in Roman characters
. (**) Title not given

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(71) ABB Technology AG
(21) 2010200966 **(22)** 12.03.2010
(54) Electric switchgear
(31) 09155701.7 **(32)** 20.03.09 **(33)** EP

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(71) ABB Technology AG
(21) 2010200967 **(22)** 12.03.2010
(54) Electric switchgear
(31) 09155700.9 **(32)** 20.03.09 **(33)** EP

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(71) Ace-Kirker, W.
(21) 2010200931 **(22)** 11.03.2010
(54) Improvements in and relating to security means for shackle shield
(62) 2004273763

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(71) Acer Incorporated
(21) 2010200841 **(22)** 04.03.2010
(54) Apparatus and Method for Transmitting/Receiving Data in a Wireless Communication System
(31) 61/156,720 **(32)** 02.03.09 **(33)** US

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(71) ADC Communications (Australia) Pty Limited
(21) 2010200788 **(22)** 02.03.2010
(54) Method and apparatus for mechanically cleaving a stripped end section of an optic fibre core

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(71) ADC Communications (Australia) Pty Limited
(21) 2010200818 **(22)** 03.03.2010
(54) Apparatus for mechanically splicing optic fibres

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(71) ADC Telecommunications, Inc.
(21) 2010200951 **(22)** 12.03.2010
(54) Fiber access terminal
(62) 2005220957

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(71) Agensys, Inc.
(21) 2010200938 **(22)** 11.03.2010
(54) Nucleic acids and corresponding proteins entitled 58P1D12 useful in treatment and detection of cancer
(62) 2004322670

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(71) Alcoa of Australia Limited
(21) 2010200859 **(22)** 05.03.2010
(54) Separator
(31) 2009900988 **(32)** 06.03.09 **(33)** AU

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(71) Alk-Abello A/S
(21) 2010200798 **(22)** 03.03.2010
(54) An allergen dosage form
(62) 2003283207

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(71) Allergan, Inc.
(21) 2010200935 **(22)** 11.03.2010
(54) Steroid intraocular implants having an extended sustained release for a period of greater than two months
(62) 2005240092

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(71) AMSTED Rail Company, Inc.
(21) 2010200831 **(22)** 04.03.2010
(54) Roller bearing backing ring
(31) 12/584,820 **(32)** 14.09.09 **(33)** US

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(71) AMSTED Rail Company, Inc.
(21) 2010200913 **(22)** 10.03.2010
(54) Railway wheel alloy
(31) 12/456,764 **(32)** 23.06.09 **(33)** US

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(71) Apple Inc.
(21) 2010200963 **(22)** 12.03.2010
(54) Application products with in-application subsequent feature access using network-based distribution system
(31) 61/160,640 **(32)** 16.03.09 **(33)** US
12/571,266 30.09.09 US

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(71) Arichell Technologies, Inc.
(21) 2010200810 **(22)** 03.03.2010
(54) Toilet flusher for water tanks with novel valves and dispensers
(62) 2003223588

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(71) Aristocrat Technologies Australia Pty Limited
(21) 2010200840 **(22)** 04.03.2010
(54) Gaming system, game controller and method of gaming
(31) 2009901042 **(32)** 11.03.09 **(33)** AU

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(71) Aristocrat Technologies Australia Pty Limited
(21) 2010200874 **(22)** 09.03.2010
(54) A method of gaming, a game controller and a gaming system
(31) 2009901016 **(32)** 10.03.09 **(33)** AU

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(71) Astral Pool Australia Pty Ltd
(21) 2010200827 **(22)** 04.03.2010
(54) Underwater lamp

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(71) AstraZeneca AB
(21) 2010200821 **(22)** 03.03.2010
(54) Immediate release pharmaceutical formulation
(62) 2003241239

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(71) Avery Dennison Corporation
(21) 2010200953 **(22)** 12.03.2010
(54) Reusable closures for packages and methods of making and using the same
(62) 2004220101

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(71) Babcock & Wilcox Power Generation Group, Inc.
(21) 2010200805 **(22)** 03.03.2010
(54) Integrated split stream water coil air heater and economizer (IWE)
(31) 12/581,637 **(32)** 19.10.09 **(33)** US
61/158,774 10.03.09 US

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(71) Bayer HealthCare LLC
(21) 2010200793 **(22)** 02.03.2010
(54) Factor VII or VIIa Gla domain variants
(62) 2004247799

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(71) Becton, Dickinson and Company
(21) 2010200895 **(22)** 10.03.2010
(54) Retractable needle apparatus
(62) 2002301586

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(71) Belenos Clean Power Holding AG
(21) 2010200959 **(22)** 12.03.2010
(54) Nitride and carbide anode materials
(31) 091587136.4 **(32)** 01.04.09 **(33)** EP
61/159,722 12.03.09 US

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(71) Belenos Clean Power Holding AG
(21) 2010200960 **(22)** 12.03.2010
(54) Open porous electrically conductive nanocomposite material
(31) 09157137.2 **(32)** 01.04.09 **(33)** EP
61/159,722 12.03.09 US

Complete Applications Filed - Name Index cont'd

(71) BGC Partners, Inc.
(21) 2010200795 **(22)** 02.03.2010
(54) Systems and Methods for Providing Enhanced Volume-Weighted Average Price Trading
(62) 2004220731

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(71) BISSELL Homecare, Inc.
(21) 2010200877 **(22)** 09.03.2010
(54) Wet extraction accessory cleaning tool
(31) 61/161,929 **(32)** 20.03.09 **(33)** US

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(71) BJ Services Company, U.S.A.
(21) 2010200921 **(22)** 10.03.2010
(54) Wellhead bypass method and apparatus
(62) 2006254948

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(71) BJ Services Company, U.S.A.
(21) 2010200922 **(22)** 10.03.2010
(54) Wellhead bypass method and apparatus
(62) 2006254948

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(71) Casio Computer Co., Ltd.
(21) 2010200876 **(22)** 09.03.2010
(54) Electronic computer and method of controlling the same
(31) 2009-059670 **(32)** 12.03.09 **(33)** JP

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(71) Cattaneo, P.
(21) 2010200872 **(22)** 09.03.2010
(54) Cartridge including an anti-ram device

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(71) Centelion
(21) 2010200801 **(22)** 03.03.2010
(54) Method of preparation of pharmaceutically grade plasmid DNA
(62) 2004272748

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(71) Chen, X. ; Feng, B.
(21) 2010200947 **(22)** 15.03.2010
(54) A covering process to kill some weeds
(31) 2661644 **(32)** 08.04.09 **(33)** CA

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(71) Chevron U.S.A. Inc.
(21) 2010200886 **(22)** 26.02.2010
(54) Synthesis of molecular sieve SSZ-74 using a hydroxide-mediated gel
(31) 12/395,453 **(32)** 27.02.09 **(33)** US

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(71) Collison & Co ; Ghassabian, B.
(21) 2010200802 **(22)** 03.03.2010
(54) Systems to enhance data entry in mobile and fixed environment
(62) 2004232013

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(71) Contoleon, G.
(21) 2010200864 **(22)** 06.03.2010
(54) Combustion speed petrol additive enhancer
(62) 2003204644

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(71) Cornell Research Foundation, Inc.
(21) 2010200927 **(22)** 10.03.2010
(54) Novel immunogenic proteins of leptospira
(62) 2003287051

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(71) Covidien AG
(21) 2010200914 **(22)** 10.03.2010
(54) Vessel sealing system
(62) 2004203068

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(71) Cowey, S.
(21) 2010200807 **(22)** 03.03.2010
(54) An improved vehicle loading dock fender assembly
(62) 2006246507

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(71) Cronk, P.
(21) 2010200796 **(22)** 02.03.2010
(54) Adjustable Reflector Device
(62) 716550

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(71) Croxton, D.
(21) 2010200865 **(22)** 08.03.2010
(54) Stump grinder head

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(71) CSR Building Products Limited
(21) 2010200919 **(22)** 10.03.2010
(54) Handling Apparatus for Sheet Materials
(31) 2009901017 **(32)** 10.03.09 **(33)** AU

Cyril Bath Company see Polen, L.
(21) 2010200928

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(71) Deere & Company
(21) 2010200936 **(22)** 11.03.2010
(54) Reusable wrapping material for a cylindrical cotton module
(31) 12/405,526 **(32)** 17.03.09 **(33)** US

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(71) DeltaHawk Engines, Inc.
(21) 2010200904 **(22)** 10.03.2010
(54) Internal combustion engine
(62) 2008201437

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(71) Denbar (QLD) Pty Ltd
(21) 2010200820 **(22)** 03.03.2010
(54) Insulated roller door and method of forming same
(31) 2009900966 **(32)** 05.03.09 **(33)** AU

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(71) DePuy Mitek, Inc.
(21) 2010200825 **(22)** 04.03.2010
(54) Methods and devices for preparing and implanting tissue scaffolds
(31) 12/412,492 **(32)** 27.03.09 **(33)** US

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(71) DePuy Mitek, Inc.
(21) 2010200826 **(22)** 04.03.2010
(54) Methods and devices for delivering and affixing tissue scaffolds
(31) 12/412,499 **(32)** 27.03.09 **(33)** US

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(71) Desire2Learn Incorporated
(21) 2010200952 **(22)** 12.03.2010
(54) Systems and methods for providing social electronic learning
(31) 12/402,872 **(32)** 12.03.09 **(33)** US

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(71) Empire Technology Development LLC
(21) 2010200965 **(22)** 12.03.2010
(54) Brine discharge assembly

Feng, B. see Chen, X.
(21) 2010200947

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(71) Ferag AG
(21) 2010200811 **(22)** 03.03.2010
(54) Device and process for taking over and further processing of flexible, flat objects
(31) 358/09 **(32)** 10.03.09 **(33)** CH

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(71) Ferag AG
(21) 2010200812 **(22)** 03.03.2010
(54) A device and method for taking over flexible, flat objects
(31) 358/09 **(32)** 10.03.09 **(33)** CH
1135/09 20.07.09 CH

FFE Minerals Corporation see Universidad Tecnica Federico Santa Maria
(21) 2010200862

Frontier Biotechnologies Co., Ltd see Xie, D.
(21) 2010200823

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(71) Fujitsu General Limited
(21) 2010200834 **(22)** 04.03.2010
(54) Air conditioner
(31) 2009-068876 **(32)** 19.03.09 **(33)** JP

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(71) Fuji Xerox Co., Ltd.
(21) 2010200937 **(22)** 11.03.2010
(54) Image forming agent storage container, image forming apparatus, and method of filling image forming agent
(31) 2010-028691 **(32)** 12.02.10 **(33)** JP
2009-073065 25.03.09 JP

Complete Applications Filed - Name Index cont'd

(71) Fuji Xerox Co., Ltd.
(21) 2010200962 **(22)** 12.03.2010
(54) Image forming apparatus and process cartridge
(31) 2009-219871 **(32)** 25.09.09 **(33)** JP

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(71) General Electric Company
(21) 2010200785 **(22)** 02.03.2010
(54) Adiabatic water gas shift - carbon dioxide removal system
(31) 09154453.6 **(32)** 05.03.09 **(33)** EP

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(71) General Electric Company
(21) 2010200786 **(22)** 02.03.2010
(54) Method and apparatus of particulate removal from gasifier components
(31) 12/397,658 **(32)** 04.03.09 **(33)** US

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(71) General Electric Company
(21) 2010200957 **(22)** 12.03.2010
(54) System and method for communicating data in locomotive consist or other vehicle consist
(31) 61/160,930 **(32)** 17.03.09 **(33)** US
12/683,874 07.01.10 US

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(71) General Electric Company
(21) 2010200958 **(22)** 12.03.2010
(54) Cooling system for rotating machine
(31) 12/467,382 **(32)** 18.03.09 **(33)** US

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(71) General Kinematics Corporation
(21) 2010200920 **(22)** 10.03.2010
(54) Conveyor for and method of conveying heated material
(62) 2006235999

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(71) Genesis Research and Development Corporation Limited ; Wrightson Seeds Limited
(21) 2010200898 **(22)** 10.03.2010
(54) Polypeptides involved in the regulation of flowering in forage grasses
(62) 2003265016

Georgetown University see Science Applications International Corporation
(21) 2010200890

Ghassabian, B. see Collison & Co
(21) 2010200802

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(71) GI.BI.EFFE. S.r.l.
(21) 2010200839 **(22)** 04.03.2010
(54) Cardboard box, with a removable part having a mirrored surface

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(71) Gilbert, A. ; Thompson, B.
(21) 2010200838 **(22)** 04.03.2010
(54) Down-hole Hammer Drill
(62) PCT/AU2008/001229

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(71) Gliderol International Pty Ltd
(21) 2010200902 **(22)** 10.03.2010
(54) A roller door and a drive assembly for a roller door
(31) 2009901549 **(32)** 09.04.09 **(33)** AU

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(71) Gojo Industries, Inc.
(21) 2010200974 **(22)** 16.03.2010
(54) Wirelessly-powered dispenser system
(31) 61/160,778 **(32)** 17.03.09 **(33)** US
12/710,587 23.02.10 US

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(71) GOJO Industries, Inc.
(21) 2010200843 **(22)** 05.03.2010
(54) Dispenser housing
(31) 12/399426 **(32)** 06.03.09 **(33)** US

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(71) GOJO Industries, Inc.
(21) 2010200939 **(22)** 12.03.2010
(54) Touch-free biometric-enabled dispenser
(31) 12/403455 **(32)** 13.03.09 **(33)** US

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(71) Gustav Pirazzi & Comp. KG
(21) 2010200909 **(22)** 10.03.2010
(54) Adapter piece
(62) PCT/EP2008/006450

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(71) Hilti Aktiengesellschaft
(21) 2010200934 **(22)** 11.03.2010
(54) Adapter for a self-drilling, chemically anchorable fastening element
(31) 102009001464.0 **(32)** 11.03.09 **(33)** DE

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(71) H Lundbeck A/S
(21) 2010200844 **(22)** 05.03.2010
(54) Crystalline base of escitalopram and orodispersible tablets comprising escitalopram base
(62) 2006261452

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(71) Honeywell International, Inc.
(21) 2010200832 **(22)** 04.03.2010
(54) Eye protectors
(31) 12/397,770 **(32)** 04.03.09 **(33)** US

Houston, T. see Polen, L.
(21) 2010200928

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(71) Hunter Douglas Industries B.V.
(21) 2010200883 **(22)** 09.03.2010
(54) Covering arrangement for architectural openings
(31) 09155166.3 **(32)** 13.03.09 **(33)** EP

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(71) Ibis Biosciences, Inc.
(21) 2010200893 **(22)** 10.03.2010
(54) Methods for rapid identification of pathogens in humans and animals
(62) 2003298030

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(71) IGT
(21) 2010200861 **(22)** 05.03.2010
(54) Multi-system gaming terminal wireless communication device
(62) 2003236084

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(71) IGT
(21) 2010200954 **(22)** 12.03.2010
(54) Three-dimensional autostereoscopic image display for a gaming apparatus
(62) 2004279008

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(71) Illinois Tool Works Inc.
(21) 2010200950 **(22)** 12.03.2010
(54) Shims for building construction
(31) 2009901128 **(32)** 16.03.09 **(33)** AU

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(71) Inguran, LLC
(21) 2010200961 **(22)** 12.03.2010
(54) Apparatus and methods for varying sort strategies or varying fluid delivery during the sex sorting of sperm
(62) 2004225436

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(71) Innovational Holdings, LLC
(21) 2010200882 **(22)** 09.03.2010
(54) Expandable medical device for delivery of beneficial agent
(62) 2007240255

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(71) Insta-mix Inc.,Subsidiary A DBA UMIX, Inc.
(21) 2010200803 **(22)** 03.03.2010
(54) Flow control element including elastic membrane with pinholes
(62) 2004207805

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(71) Intercat Equipment, Inc.
(21) 2010200915 **(22)** 10.03.2010
(54) Catalyst withdrawal apparatus and method for regulating catalyst inventory in a fluid catalyst cracking unit
(62) 2006270144

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(71) InterDigital Technology Corporation
(21) 2010200888 **(22)** 10.03.2010
(54) Method and system for performing handover in a wireless communication system
(62) 2007261342

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(71) InterDigital Technology Corporation
(21) 2010200899 **(22)** 10.03.2010
(54) Method and system for performing peer-to-peer communication between

Complete Applications Filed - Name Index cont'd

stations within a basic service set
(62) 2006312040

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(71) InterDigital Technology Corporation
(21) 2010200900 **(22)** 10.03.2010
(54) Scheduling data transmission by medium access control (MAC) layer in a mobile network
(62) 2007214355

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(71) Intrexon Corporation
(21) 2010200850 **(22)** 05.03.2010
(54) Oxadiazoline ligands for modulating the expression of exogenous genes via an ecdysone receptor complex
(62) 2004265547

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(71) IWICS Inc
(21) 2010200908 **(22)** 10.03.2010
(54) Probing method for a multi-station network
(62) 2004304435

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(71) J. Ray McDermott, S.A.
(21) 2010200964 **(22)** 12.03.2010
(54) Truss semi-submersible offshore floating structure
(62) 2006202864

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(71) Jenken Biosciences, Inc.
(21) 2010200924 **(22)** 10.03.2010
(54) Treatment of diseases using nalmefene and its analogs
(62) 2005282480

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(71) JFK Equipment Limited
(21) 2010200944 **(22)** 12.03.2010
(54) Drilling Apparatus
(61) 2009217364

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(71) JFK Equipment Limited
(21) 2010200946 **(22)** 12.03.2010
(54) Drilling Apparatus
(61) 2009217364

Jiang, H. see Xie, D.
(21) 2010200823

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(71) Kestle, R.
(21) 2010200887 **(22)** 10.03.2010
(54) Insulation

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(71) King Rack Industrial Co., Ltd
(21) 2010200969 **(22)** 15.03.2010
(54) Bicycle Carry Rack Assembly
(31) 098217522 **(32)** 23.09.09 **(33)** TW
098204060 16.03.09 TW

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(71) Konami Gaming, Inc.
(21) 2010200847 **(22)** 05.03.2010
(54) Gaming Machine
(31) 12/454,960 **(32)** 27.05.09 **(33)** US

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(71) Korea Institute of Geoscience and Mineral Resources
(21) 2010200897 **(22)** 09.03.2010
(54) Soil Core Sample Storage Container for Visual Inspection with the Naked Eye
(31) 10-2009-0105912 **(32)** 04.11.09 **(33)** KR

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(71) Larkden Pty Limited
(21) 2010200829 **(22)** 04.03.2010
(54) Method and apparatus for storing heat energy
(62) 2005222444

Larsen, D. see Larsen, R.
(21) 2010200846

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(71) Larsen, R. ; Larsen, D.
(21) 2010200846 **(22)** 05.03.2010
(54) Method and Apparatus for Mulching Stubble

Lin, M. see Teng, H.
(21) 2010200929

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(71) LSI Industries, Inc.
(21) 2010200941 **(22)** 12.03.2010
(54) Modular light reflectors and assemblies for luminaire
(31) 12/615,851 **(32)** 10.11.09 **(33)** US

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(71) MacDon Industries Ltd.
(21) 2010200923 **(22)** 10.03.2010
(54) Windrower tractor with rear wheel suspension
(31) 61/159,592 **(32)** 12.03.09 **(33)** US

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(71) Marko I. R. D. C. Inc.
(21) 2010200852 **(22)** 05.03.2010
(54) Elastomeric film with anti-skid additive
(62) 2003269655

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(71) May, P.
(21) 2010200867 **(22)** 08.03.2010
(54) A torque amplifier apparatus
(31) 2009900983 **(32)** 06.03.09 **(33)** AU

MedImmune, LLC. see National Cancer Institute
(21) 2010200956

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(71) Mining & Construction Card Company Pty Ltd
(21) 2010200918 **(22)** 10.03.2010
(54) Information processing system for supply and procurement management
(31) 2009904859 **(32)** 06.10.09 **(33)** AU
2009901063 11.03.09 AU

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(71) Mitos Pharmaceuticals, Inc.
(21) 2010200848 **(22)** 05.03.2010
(54) Nitroxide radioprotector formulations and methods of use
(62) 2003277075

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(71) Moore, C.
(21) 2010200945 **(22)** 12.03.2010
(54) Enhancement Phalloplasty
(62) 2006201723

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(71) MTEM Ltd
(21) 2010200948 **(22)** 11.03.2010
(54) Method for determining resistivity anisotropy from earth electromagnetic responses
(31) 12/381,690 **(32)** 16.03.09 **(33)** US

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(71) National Cancer Institute ; MedImmune, LLC.
(21) 2010200956 **(22)** 12.03.2010
(54) Methods of preventing or treating T cell malignancies by administering CD2 antagonists
(62) 2003273299

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(71) New York University
(21) 2010200853 **(22)** 05.03.2010
(54) Positive airway pressure system and method for treatment of sleeping disorder in patient
(62) 2004266564

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(71) NorChip A/S
(21) 2010200955 **(22)** 12.03.2010
(54) Detection of human papillomavirus
(62) 2005216414

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(71) Novartis AG
(21) 2010200833 **(22)** 04.03.2010
(54) Use of renin inhibitors for the prevention or treatment of diastolic dysfunction or diastolic heart failure
(62) 2005294318

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(71) Nupress Tools Pty Limited
(21) 2010200804 **(22)** 03.03.2010
(54) An insulated glass unit (IGU) and a point fixing apparatus for an IGU
(62) 2008234426

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(71) Nycomed GmbH
(21) 2010200905 **(22)** 10.03.2010

Complete Applications Filed - Name Index cont'd

(54) Dosage form containing pantoprazole as active ingredient
(62) 2004237363

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(71) Optinose AS
(21) 2010200799 **(22)** 03.03.2010
(54) Nasal devices
(62) 2007202918

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(71) Origin Energy Solar Pty Ltd
(21) 2010200942 **(22)** 11.03.2010
(54) Separating and assembling semiconductor strips
(62) 2004236768

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(71) Osiris Therapeutics, Inc.
(21) 2010200916 **(22)** 10.03.2010
(54) Mesenchymal stem cells and uses therefor
(62) 2005227295

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(71) Pactiv Corporation
(21) 2010200885 **(22)** 09.03.2010
(54) Reclosable Package Having an Accessible Zipper and a Method for Making the Same
(62) 2003258074

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(71) Panasonic Corporation
(21) 2010200906 **(22)** 10.03.2010
(54) Variable length coding method and variable length decoding method
(62) 2007202509

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(71) Panasonic Corporation
(21) 2010200907 **(22)** 10.03.2010
(54) Variable length coding method and variable length decoding method
(62) 2007202509

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(71) Paratek Pharmaceuticals, Inc
(21) 2010200845 **(22)** 05.03.2010
(54) Methods for synthesizing substituted tetracycline compounds
(62) 2008275701

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(71) Paratek Pharmaceuticals, Inc
(21) 2010200971 **(22)** 16.03.2010
(54) Substituted tetracycline compounds for the treatment of malaria
(62) 2003287218

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(71) Paratek Pharmaceuticals, Inc
(21) 2010200973 **(22)** 16.03.2010
(54) Substituted tetracycline compounds for the treatment of malaria
(62) 2003287218

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(71) Passlogy Co., Ltd.
(21) 2010200903 **(22)** 10.03.2010
(54) User authentication method and user authentication system
(62) 2003211960

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(71) PGS Geophysical AS
(21) 2010200849 **(22)** 05.03.2010
(54) Method and system for calibrating streamer electrodes in a marine electromagnetic survey system
(31) 12/381,689 **(32)** 16.03.09 **(33)** US

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(71) Plasan Sasa Ltd.
(21) 2010200659 **(22)** 23.02.2010
(54) Suspension system for an armored vehicle
(31) 197180 **(32)** 23.02.09 **(33)** IL

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(71) Polen, L. ; Cyril Bath Company ; Houston, T. ; Weber, H.
(21) 2010200928 **(22)** 11.03.2010
(54) Titanium stretch forming apparatus and method
(62) 2006311323

Predrag, S. see Sharma, C.
(21) 2010200891

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(71) Premium Power Corporation
(21) 2010200837 **(22)** 04.03.2010
(54) Device for monitoring and charging of a selected group of battery cells
(62) 2004258144

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(71) Pullen, K.
(21) 2010200797 **(22)** 02.03.2010
(54) Variable air controller

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(71) Qualcomm Incorporated
(21) 2010200854 **(22)** 05.03.2010
(54) LDPC encoding methods and apparatus
(62) 2005269729

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(71) Qualcomm Incorporated
(21) 2010200855 **(22)** 05.03.2010
(54) Method, user agent, application gateway and program for soft handoff across different networks assisted by an end-to-end application protocol
(62) 2004211422

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(71) Qualcomm Incorporated
(21) 2010200856 **(22)** 05.03.2010
(54) LDPC encoding methods and apparatus
(62) 2005269729

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(71) Quantum Corporation
(21) 2010200866 **(22)** 08.03.2010
(54) Data reduction indexing

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(71) Rapala VMC Corporation
(21) 2010200830 **(22)** 04.03.2010
(54) Lure arrangement
(31) 20095294 **(32)** 20.03.09 **(33)** FI

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(71) Reckitt Benckiser (UK) Limited
(21) 2010200851 **(22)** 05.03.2010
(54) Deactivants for dust mite allergens
(62) 2006252279

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(71) Rheem Australia Pty Limited
(21) 2010200835 **(22)** 04.03.2010
(54) A Controllable Water Heater
(62) 2007332141

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(71) Rodier Advertising (1986) Limited
(21) 2010200889 **(22)** 10.03.2010
(54) A Three-Sided Rotatable Display Sign
(62) 2004201670

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(71) Rose and Lily Pty Ltd
(21) 2010200884 **(22)** 09.03.2010
(54) Head pillow

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(71) Science Applications International Corporation ; Georgetown University
(21) 2010200890 **(22)** 10.03.2010
(54) Systems and methods for monitoring health and delivering drugs transdermally
(62) 2006225209

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(71) Seminis Vegetable Seeds, Inc.
(21) 2010200868 **(22)** 08.03.2010
(54) Bean line RS08051531
(31) 12/416,108 **(32)** 31.03.09 **(33)** US

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(71) Seminis Vegetable Seeds, Inc.
(21) 2010200869 **(22)** 08.03.2010
(54) Pea line 08510617
(31) 12/416,121 **(32)** 31.03.09 **(33)** US

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(71) Seminis Vegetable Seeds, Inc.
(21) 2010200949 **(22)** 11.03.2010
(54) Pea Line 08520702
(31) 12/416,118 **(32)** 31.03.09 **(33)** US

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(71) Sharma, C. ; Predrag, S.
(21) 2010200891 **(22)** 10.03.2010
(54) Mobile Advertising Technology

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(71) Siemens Schweiz AG
(21) 2010200806 **(22)** 03.03.2010

Complete Applications Filed - Name Index cont'd

(54) Improvement(s) Related to Particle Monitors and Method(s) Therefor
(62) 2004286360

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(71) Silence Therapeutics AG
(21) 2010200822 **(22)** 03.03.2010
(54) Use of protein kinase N beta
(62) 2003260399

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(71) SIRiON Therapeutics, Inc.
(21) 2010200842 **(22)** 04.03.2010
(54) Methods, assays and compositions for treating retinol-related diseases
(62) 2007229394

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(71) Smith & Nephew, Inc.
(21) 2010200901 **(22)** 10.03.2010
(54) High performance knee prostheses
(62) 2003299851

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(71) Solas Science & Engineering Co., Ltd.
(21) 2010200925 **(22)** 11.03.2010
(54) Marine Propelling System
(31) 98137865 **(32)** 06.11.09 **(33)** TW

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(71) Soman, A.
(21) 2010200819 **(22)** 05.03.2010
(54) Device cover
(31) 2009900067 **(32)** 11.01.09 **(33)** AU

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(71) Somero Enterprises, Inc.
(21) 2010200813 **(22)** 03.03.2010
(54) Powered strike-off plow
(62) 2005269537

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(71) Springer Maschinenfabrik GmbH
(21) 2010200943 **(22)** 12.03.2010
(54) Separation process

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(71) Steris Inc.
(21) 2010200896 **(22)** 10.03.2010
(54) Tunnel Washer System With Improved Cleaning Efficiency
(62) 2006292730

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(71) Sunho Biodiesel Corporation
(21) 2010200860 **(22)** 05.03.2010
(54) Fuel production
(62) 2005211617

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(71) Sunho Biodiesel Corporation
(21) 2010200863 **(22)** 05.03.2010
(54) Fuel production
(62) 2005211617

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(71) Symbol Technologies Inc.
(21) 2010200808 **(22)** 03.03.2010
(54) Object Location Method and System Using RFID
(62) 2005218459

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(71) Taro Pharmaceutical Industries Limited
(21) 2010200787 **(22)** 02.03.2010
(54) Method of treating movement disorders using barbituric acid derivatives
(62) 2003302897

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(71) Teng, H. ; Lin, M.
(21) 2010200929 **(22)** 11.03.2010
(54) Safety needle cap

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(71) The Nielsen Company (US), LLC
(21) 2010200873 **(22)** 09.03.2010
(54) Methods and apparatus for embedding watermarks
(62) 2004258470

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(71) The Regents of the University of California
(21) 2010200912 **(22)** 10.03.2010
(54) Novel chimeric TNF ligands
(62) 2002362205

Thompson, B. see Gilbert, A.
(21) 2010200838

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(71) Thompson Licensing
(21) 2010200926 **(22)** 10.03.2010
(54) Film grain simulation technique for use in media playback devices
(62) 2005309719

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(71) Topsoe Fuel Cell A/S
(21) 2010200940 **(22)** 12.03.2010
(54) Fuel cell stack
(31) PA 2009 00359 **(32)** 13.03.09 **(33)** DK

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(71) Transmin Pty Limited
(21) 2010200824 **(22)** 04.03.2010
(54) Conveyor Assembly
(31) 2009903454 **(32)** 23.07.09 **(33)** AU

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(71) Tyco Healthcare Group, LP
(21) 2010200910 **(22)** 10.03.2010
(54) Circular stapler for hemorrhoid operations
(62) 2004270226

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(71) Tyco Healthcare Group, LP
(21) 2010200917 **(22)** 10.03.2010
(54) Endoscopic tissue removal apparatus and method
(62) 2004222288

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(71) Tyco Healthcare Group LP
(21) 2010200789 **(22)** 02.03.2010
(54) Flexible port seal
(31) 12/706,043 **(32)** 16.02.10 **(33)** US
61/161,833 20.03.09 US

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(71) Tyco Healthcare Group LP
(21) 2010200790 **(22)** 02.03.2010
(54) Center cinch and release of buttress material
(31) 12/414,961 **(32)** 31.03.09 **(33)** US

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(71) Tyco Healthcare Group LP
(21) 2010200791 **(22)** 02.03.2010
(54) Surgical stapling apparatus with clamping assembly
(31) 12/414,918 **(32)** 31.03.09 **(33)** US

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(71) Tyco Healthcare Group LP
(21) 2010200792 **(22)** 02.03.2010
(54) Surgical stapling apparatus
(31) 12/414,931 **(32)** 31.03.09 **(33)** US

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(71) Tyco Healthcare Group LP
(21) 2010200794 **(22)** 02.03.2010
(54) Surgical stapling apparatus
(31) 12/414,943 **(32)** 31.03.09 **(33)** US

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(71) Tyco Healthcare Group LP
(21) 2010200814 **(22)** 03.03.2010
(54) Suture management system for surgical portal apparatus including slotted ring
(31) 12/709,593 **(32)** 22.02.10 **(33)** US
61/162,756 24.03.09 US

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(71) Tyco Healthcare Group LP
(21) 2010200857 **(22)** 05.03.2010
(54) Surgical access assembly including shield member
(31) 61/164,010 **(32)** 27.03.09 **(33)** US
12/712,422 25.02.10 US

---

(71) Tyco Healthcare Group LP
(21) 2010200858 **(22)** 05.03.2010
(54) Surgical access apparatus with seal and closure valve assembly
(31) 12/710,499 **(32)** 23.02.10 **(33)** US
61/164,597 30.03.09 US

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(71) Tyco Healthcare Group LP
(21) 2010200870 **(22)** 08.03.2010
(54) Portal device
(31) 12/712,229 **(32)** 25.02.10 **(33)** US
61/163,909 27.03.09 US

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(71) Tyco Healthcare Group LP
(21) 2010200878 **(22)** 09.03.2010
(54) Integral Insufflation valve
(31) 61/164,035 **(32)** 27.03.09 **(33)** US
12/712,652 25.02.10 US

Complete Applications Filed - Name Index cont'd

(71) Tyco Healthcare Group LP
(21) 2010200932 **(22)** 11.03.2010
(54) Seal device with adjustable aperture
(31) 61/164,094 **(32)** 27.03.09 **(33)** US
12/714,823 01.03.10 US

(71) Tyco Healthcare Group LP
(21) 2010200933 **(22)** 11.03.2010
(54) Powered variable seal diameter trocar employing a longitudinal displacement mechanism
(31) 12/715682 **(32)** 02.03.10 **(33)** US
61/163,557 26.03.09 US

(71) Tyco Healthcare Group LP
(21) 2010200968 **(22)** 12.03.2010
(54) Access port including centering feature
(31) 12/717,268 **(32)** 04.03.10 **(33)** US
61/160,733 17.03.09 US

(71) Universal Entertainment Corporation
(21) 2010200880 **(22)** 09.03.2010
(54) Gaming System
(31) 2009-065116 **(32)** 17.03.09 **(33)** JP

Universidad De Santiago De Chile see Universidad Tecnica Federico Santa Maria
(21) 2010200862

(71) Universidad Tecnica Federico Santa Maria ; Universidad De Santiago De Chile ; FFE Minerals Corporation
(21) 2010200862 **(22)** 05.03.2010
(54) System and method of measuring and classifying the impacts inside a revolving mill used in mineral grinding
(62) 2004200379

(71) University of Sydney
(21) 2010200875 **(22)** 09.03.2010
(54) Sensor data processing

(71) Visiogen Inc.
(21) 2010200816 **(22)** 03.03.2010
(54) Method and device for compacting an intraocular len
(62) 2004212917

(71) Visy R & D Pty Ltd
(21) 2010200817 **(22)** 03.03.2010
(54) Grippers for use in palletising packaged goods
(31) 2007906702 **(32)** 10.12.07 **(33)** AU

(71) Voith Patent GmbH
(21) 2010200970 **(22)** 16.03.2010
(54) Energy-dissipating element and shock absorber comprising an energy-dissipating elelment
(31) 09 155 732.2 **(32)** 20.03.09 **(33)** EP

(71) Volt Information Sciences, Inc
(21) 2010200800 **(22)** 03.03.2010
(54) Computer System and Method for Facilitating and Managing the Project Bid and Requisition Process
(62) 2002318884

(71) Wangra Pty Ltd
(21) 2010200809 **(22)** 03.03.2010
(54) Heating System for Spa, Swim Spa and the Like
(31) 2009900965 **(32)** 05.03.09 **(33)** AU

(71) Warsaw Orthopedic, Inc.
(21) 2010200881 **(22)** 09.03.2010
(54) Interbody fusion device
(62) 2004231525

Weber, H. see Polen, L.
(21) 2010200928

(71) Whitchurch, C.
(21) 2010200871 **(22)** 08.03.2010
(54) Detection of psuedomonas strains

(71) Wiebecke, A.
(21) 2010200836 **(22)** 04.03.2010
(54) Device for locally influencing the earth's magnetic field
(31) A 363/2009 **(32)** 05.03.09 **(33)** AT

(71) WMS Gaming Inc.
(21) 2010200911 **(22)** 10.03.2010
(54) Gaming machine for playing a board game
(62) 2007200989

(71) Wobben, A.
(21) 2010200894 **(22)** 10.03.2010
(54) Wind-energy installation comprising a ring generator
(62) 2006207844

Wrightson Seeds Limited see Genesis Research and Development Corporation Limited
(21) 2010200898

(71) Wyeth
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Innovation Patent Applications Filed

Name Index

Applications listed below were processed through the Patent Office Canberra during the period ending 9 Mar 2010.
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Applications Lapsed, Refused Or Withdrawn, Patents Ceased or Expired

Reference to the application numbers must include the year of the application of the patent, which is shown preceding the numbers.

The codes next to each number have the following meanings:

Code	Meaning
1	Application Lapsed Section 142(2)(a)
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4	Application Lapsed Section 142(2)(d)
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6	Application Lapsed Section 142(2)(f)/See Reg. 8.3(3)
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8	Application Lapsed Reg. 3.4(6)
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12	Application Withdrawn Section 141(1)
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14	Patent Ceased Section 143(a), or Expired
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21	Patent Ceased Section 101C(b)/Section 143A(c)/Reg. 9A.4
22	Patent Ceased Section 143A(d), or Expired
23	Patent Ceased Section 143A(e)
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A	Applications on which examination has not been requested or directed
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C	Applications on which examination has been requested or on which an examination report has been issued
D	Applications which have been accepted or advertised accepted, (including applications which have been advertised 'Not Sealed')
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Assignments before Grant, Section 113

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2003260331 Pirelli & C. S.p.A. The application has been assigned to **Prysmian Cavi e Sistemi Energia S.r.L.**

Assignments before Grant, Section 113

2004

2004207805 Insta-mix Inc.,Subsidiary A DBA UMIX, Inc. The application has been assigned to **Medela Holdings AG**

2004212263 Novozymes Biopharma UK Limited; Upperton Limited The application has been assigned to **Upperton Limited; Novozymes Biopharma DK A/S**

2004233898 Zhang, Jennifer; Watkins, Will; Boojamara, Constantine; Ray, Adrian; Jin, Haolun; Swaminathan, Sundaramoorthi; Prasad, Vidya; Cho, Aesop; Markevitch, David; Hirschmann, Ralph; Chen, Xiaowu; Sherlock, Rosemarie; Chong, Lee; Kim, Choung; Oare, David; Kirschberg, Thorston; Lee, Christopher; Lee, William; Gilead Sciences, Inc.; Cannizzaro, Carina; Mackman, Richard; Pyun, Hyung-Jung; Fardis, Maria; Chen, James; Huang, Alan The application has been assigned to **Gilead Sciences, Inc.**

2004266690 Samsonite Corporation The application has been assigned to **Samsonite IP Holdings S.a.r.l.**

2004281559 Helsingfors Institution for Bioimmunterapi AB The application has been assigned to **Oy Neurofood AB**

2004325672 H2 Power Systems Ltd. The application has been assigned to **H2 Power Systems Limited**

2005

2005201131 PP&L Enterprises Pty Ltd; Trailers by Design Pty Ltd The application has been assigned to **PP&L Enterprises Pty Ltd; Lipegg Pty Ltd**

2005240682 Natasa Enterprises Ltd. The application has been assigned to **Stephania Holdings Inc.**

2005253993 D'Antonio Consultants International, Inc. The application has been assigned to **Mark Anderson and Associates, Incorporated**

2005281109 Suntory Holdings Limited The application has been assigned to **Nippon Suisan Kaisha, Ltd.**

2005305421 Boston Scientific Scimed, Inc. The application has been assigned to **Boston Scientific Limited**

2005336142 Plant Research International B.V. The application has been assigned to **Stichting Dienst Landbouwkunding Onderzoek**

2006

2006218889 Rothman, Steven; Rothman, Michael The application has been assigned to **Rothman Healthcare Research, LLC**

2006233214 Nordic Vaccine Technology A/S; Coloplast A/S The application has been assigned to **Nordic Vaccine A/S**

2006284460 Kimberly-Clark Worldwide, Inc. The application has been assigned to **Binforma Group Limited Liability Company**

2006347551 Johnson Sr., William The application has been assigned to **Ecopuro**

2007

2007228539 Prolysis Ltd The application has been assigned to **Biota Europe Limited**

Assignments before Grant, Section 113

2007262791 PROLYSIS LTD. The application has been assigned to **Biota Europe Limited**

2007279084 University of Southampton The application has been assigned to **Cambridge Enterprise Limited**

2007297617 Reuters America, Inc. The application has been assigned to **Reuters America, LLC**

2007323959 Allegiance Corporation The application has been assigned to **CareFusion 2200, Inc.**

2008

2008242937 H2GEN Innovations, Inc. The application has been assigned to **Air Liquide Process & Construction, Inc.**

2008246981 Katz, Geva; Lazarovich, Oron The application has been assigned to **BabyJogger LLC**

2008266860 Pindi Products, Inc.; Harra, David; Looney, Erin The application has been assigned to **Pindi Products, Inc.**

2008281660 Pesenti, Yvan The application has been assigned to **Commissariat a L'Energie Atomique; Pesenti, Yvan**

2009

2009201007 Atlas Heavy Engineering Pty Ltd The application has been assigned to **Atlas Heavy Engineering Pty Ltd**

2009201972 Atlas Heavy Engineering Pty Ltd The application has been assigned to **Atlas Heavy Engineering Pty Ltd**

2009905534 Neilson, Julie The application has been assigned to **Shine Enterprises Australia Pty Ltd.**

2009906008 Steel Haul Pty Ltd The application has been assigned to **The Glutt Company Pty Ltd**

Extensions of Time, Section 223

Applications Received

Notice of opposition under Section 223(6) to the undermentioned application(s) for an extension of time may be lodged at the Patent Office within the prescribed time.

2002

2002236498 **Senesco Technologies, Inc.** An application to extend the time from 06 Jul 2009 to 06 Feb 2010 in which to pay the renewal fees has been filed . Address for service in Australia - Shelston IP Level 21 60 Margaret Street Sydney NSW 2000

2003

2003204707 **Middleton, E.** An application to extend the time from 16 Jun 2009 to 16 Mar 2010 in which to file a renewal fee has been filed . Address for service in Australia - Fisher Adams Kelly Level 29 12 Creek Street Brisbane QLD 4000

Extensions of Time, Section 223

2004

2004250254 **Senesco Technologies, Inc.** An application to extend the time from 21 Jun 2009 to 21 Jan 2010 in which to pay a continuation fee has been filed . Address for service in Australia - Shelston IP Level 21 60 Margaret Street Sydney NSW 2000

2004258070 **Senesco Technologies, Inc.** An application to extend the time from 07 Jun 2009 to 07 Feb 2010 in which to pay a renewal fee has been filed . Address for service in Australia - Shelston IP Level 21 60 Margaret Street Sydney NSW 2000

2004271930 **IRx Therapeutics, Inc.** An application to extend the time from 05 Aug 2009 to 05 Mar 2010 in which to pay a renewal fee has been filed . Address for service in Australia - Lord and Company 4 Douro Place West Perth WA 6005

2007

2007236516 **University Of Guelph** An application to extend the time from 11 Nov 2008 to 11 Dec 2009 in which to enter the National Phase has been filed . Address for service in Australia - Davies Collison Cave 1 Nicholson Street Melbourne VIC 3000

2007347827 **Lta Corporation** An application to extend the time from 20 May 2009 to 20 Sep 2009 in which to enter the National Phase has been filed . Address for service in Australia - Pizzeys Level 2, Woden Plaza Offices Woden Town Square Woden Canberra ACT 2606

2008

2008203060 **Zentaris GmbH** An application to extend the time from 29 Jul 2009 to 28 Feb 2010 in which to pay a continuation fee has been filed . Address for service in Australia - Spruson & Ferguson Level 35 St Martins Tower 31 Market Street Sydney NSW 2000

2009

2009100831 **Puro Healthcare Pty Ltd** An application to extend the time from 08 Nov 2006 to 18 Oct 2009 in which to claim the convention priority date . Address for service in Australia - Puro Healthcare Pty Ltd 23 Orme Rd Buderim QLD 4556

Applications Allowed - Section 223(2)

2002

2002242460 **Redfern Optical Components Pty Ltd** the time in which to pay a renewal fee has been extended to 15 Nov 2009. Address for service in Australia - Freehills Patent & Trade Mark Attorneys Level 38 MLC Centre Martin Place Sydney NSW 2000

2002249646 **LG Electronics Inc.** the time in which to pay a renewal fee has been extended to 10 Jan 2010. Address for service in Australia - Davies Collison Cave 1 Nicholson Street Melbourne VIC 3000

2003

2003204099 **Tamburri, R.** the time in which to pay an acceptance fee has been extended to 04 Feb 2010. Address for service in Australia - Richtime Holdings P/L 232 McDonald Street Joondanna WA 6060

2004

2004100206 **Seymour, A.** the time in which to pay a renewal fee has been extended to 26 Jan 2010. Address for service in Australia - Anthony Elias John Seymour 230 Gale Road Maroubra NSW 2035

Extensions of Time, Section 223

2004221424 **Kalnay, P.** the time in which to pay an acceptance fee has been extended to 04 Feb 2010. Address for service in Australia - Peter A. Kalnay c/o Mr.F.O. Sanderson 37A McMahon St. St Arnaud VIC 3478

2004300110 **Veritas Mobile Solutions Pte. Ltd.** the time in which to pay an acceptance fee has been extended to 27 Dec 2009. Address for service in Australia - Wrays 56 Ord Street West Perth WA 6005

2006

2006239066 **Vetco Gray Controls Limited** the time in which to pay an acceptance fee has been extended to 24 Mar 2010. Address for service in Australia - Watermark Patent & Trademark Attorneys Level 2 302 Burwood Road Hawthorn VIC 3122

2006265757 **RME Underground Pty Ltd** the time in which to request examination has been extended to 10 Feb 2010. Address for service in Australia - Pappas IP 8/24A Musgrave Street Mosman NSW 2088

2008

2008100643 **Macer Limited** the time in which to pay the exam request fee has been extended to 24 Sep 2009. Address for service in Australia - Taiky Ong 116 Carrington Road Wahroonga NSW 2076

2009

2009903731 **CounselLink Pty Ltd** the time in which to pay the filing fee has been extended to 19 Jan 2010. Address for service in Australia - CounselLink Pty Ltd 1/90 William St Melbourne VIC 3001

2009904915 **Astral Property Pty Limited** the time in which to pay a filing fee has been extended to 14 Mar 2010. Address for service in Australia - Astral Property Pty Limited Unit 3, 19-21 Gibbes Street Chatswood NSW 2067

2009905241 **Astral Property Pty Limited** the time in which to pay a filing fee has been extended to 04 Mar 2010. Address for service in Australia - Astral Property Pty Limited Unit 3, 19-21 Gibbes Street Chatswood NSW 2067

2009905918 **Ackroyd, R.** the time in which to pay a filing fee has been extended to 10 Mar 2010. Address for service in Australia - Russell John Ackroyd 41 Black st Watsonia VIC 3087

Amendments

Applications for Amendment

A person interested in opposing the allowance of the amendment may, at any time within three months from the date of this journal, give notice at the Patent Office using the approved form accompanied by the prescribed fee.

2002

2002346369 Anti-IL-6 antibodies, compositions, methods and uses **Centocor, Inc.** The nature of the amendment is: Amend the priority details from INID(31) 60/332,437; INID(33) US; INID(32) 14.11.2001 to INID(31) 60/332,743; INID(33) US; INID(32) 14.11.2001 . Address for service in Australia - Shelston IP Level 21 60 Margaret Street Sydney NSW 2000

2003

2003220713 Process for removing mercury from flue gases **Bayer Industry Services GmbH & Co. OHG** The nature of the amendment is: Amend the co-inventor name from Vosteen, Bernard to Vosteen, Bernhard. Address for service in Australia - Davies Collison Cave 255 Elizabeth Street Sydney NSW 2000

2003228276 Multivalent constructs for therapeutic and diagnostic applications **Bracco International B.V.; Dyax Corp.** The nature of the amendment is: Add the name of the co-inventor Yan, Feng. Address for service in Australia - Griffith Hack Level 29, Northpoint 100 Miller Street North Sydney NSW 2060

2003240667 Enzyme containing composition, process of producing said composition and its use **3M ESPE AG** The nature of the amendment is as shown in the statement(s) filed 09 Feb 2010. Address for service in Australia - Shelston IP Level 21 60 Margaret Street Sydney NSW 2000

2003287218 Substituted tetracycline compounds for the treatment of malaria **Paratek Pharmaceuticals, Inc.** The nature of the amendment is as shown in the statement(s) filed 04 Mar 2010. Address for service in Australia - Watermark Patent & Trademark Attorneys Level 2 302 Burwood Road Hawthorn VIC 3122

2003301446 LMNA gene and its involvement in Hutchinson-Gilford Progeria Syndrome (HGPS) and arteriosclerosis **Research Foundation For Mental Hygiene, Inc.; The Government of the United States of America as represented by The Secretary of The Department of Health and Human Services; The Progeria Research Foundation, Inc.** The nature of the amendment is as shown in the statement(s) filed 03 Mar 2010. Address for service in Australia - Griffith Hack Level 3 509 St Kilda Road Melbourne VIC 3004

2004

2004206590 Methods of providing transmit traversity in wireless **Qualcomm Incorporated** The nature of the amendment is as shown in the statement(s) filed 24 Feb 2010. Address for service in Australia - Madderns First Floor 64 Hindmarsh Square Adelaide SA 5000

2004220616 Kink resistant endovascular graft **TriVascular2, Inc.** The nature of the amendment is as shown in the statement(s) filed 29 Jan 2010. Address for service in Australia - Pizzeys Level 2, Woden Plaza Offices Woden Town Square Woden Canberra ACT 2606

2004251647 Abuse resistant amphetamine compounds **Shire LLC** The nature of the amendment is: Add co-inventor Paul, Bernhard J.; Verbicky, Christopher A. . Address for service in Australia - FB Rice & Co Level 23 44 Market Street Sydney NSW 2000

2004319598 Scannable article having a signature section with alignment bars **United States Postal Service** The nature of the amendment is as shown in the statement(s) filed 04 Mar 2010. Address for service in Australia - PIZZEYS Level 14, ANZ Centre 324 Queen Street Brisbane QLD 4000

2005

2005211855 Method for the diafiltration of a product and device for carrying out said method **Bucher Guyer AG** The nature of the amendment is as shown in the statement(s) filed 26 Feb 2010. Address for service in Australia - Griffith Hack Level 19 109 St Georges Terrace Perth WA 6000

2005220083 Irrigation pipe **Netafim Ltd.** The nature of the amendment is: Amend the co-inventor name from Schweitzer, Avi to Schweitzer, Abraham . Address for service in Australia - Griffith Hack Level 3 509 St Kilda Road Melbourne VIC 3004

2005251383 Biofilm remover **Whiteley Corporation Pty Ltd** The nature of the amendment is as shown in the statement(s) filed 08 Mar 2010. Address for service in Australia - Phillips Ormonde Fitzpatrick 367 Collins Street Melbourne VIC 3000

2005322850 Local item extraction **Google Inc.** The nature of the amendment is as shown in the statement(s) filed 26 Feb 2010. Address for service in Australia - Shelston IP Level 21 60 Margaret Street Sydney NSW 2000

2006

2006256851 Pharmaceutical compositions of a neuroactive steroid and uses thereof **EURO-CELTIQUE S.A.** The nature of the amendment is as shown in the statement(s) filed 04 Mar 2010. Address for service in Australia - FB Rice & Co Level 23 44 Market Street Sydney NSW 2000

2006333868 Indoor unit of air conditioner, cover member thereof and method for embedding indoor unit in wall. **Daikin Industries, Ltd.** The nature of the amendment is: Amend the invention title to read Indoor unit of air conditioner, cover member thereof, and method for embedding indoor unit in wall. Address for service in Australia - Spruson & Ferguson Level 35 St Martins Tower 31 Market Street Sydney NSW 2000

2007

2007202780 Kettle Lid Dampening Mechanism **Breville Pty Limited** The nature of the amendment is as shown in the statement(s) filed 10 Feb 2010. Address for service in Australia - Molins & Co Suite 5, Level 6 139 Macquarie Street Sydney NSW 2000

2007245223 Fat absorption inhibitor **Ito En, Ltd.** The nature of the amendment is as shown in the statement(s) filed 25 Feb 2010. Address for service in Australia - Davies Collison Cave 1 Nicholson Street Melbourne VIC 3000

2008

2008101162 Portable electronic device with image-based browsing **Apple Inc.** The nature of the amendment is: Amend the inventor name from Chandhri, Imran to Chaudhri, Imran. Address for service in Australia - Freehills Patent & Trade Mark Attorneys Level 38 MLC Centre Martin Place Sydney NSW 2000

2008101164 Portable electronic device with image-based navigation **Apple Inc.** The nature of the amendment is: Amend the inventor name from Chandhri, Imran to Chaudhri, Imran. Address for service in Australia - Freehills Patent & Trade Mark Attorneys Level 38 MLC Centre Martin Place Sydney NSW 2000

2008101171 Portable electronic device for imaged-based browsing of

Amendments

contacts **Apple Inc.** The nature of the amendment is: Amend the inventor name from Chandhri, Imran to Chaudhri, Imran. Address for service in Australia - Freehills Patent & Trade Mark Attorneys Level 38 MLC Centre Martin Place Sydney NSW 2000

2008201645 Cashless reservation system **Aristocrat Technologies Australia Pty Ltd** The nature of the amendment is: Delete priority details under INID (62) 2006252005; 2007234463 . Address for service in Australia - Griffith Hack Level 3 509 St Kilda Road Melbourne VIC 3004

2009

2009202513 Specific binding agents of human angiopoietin-2 **Amgen Inc.** The nature of the amendment is as shown in the statement(s) filed 05 Mar 2010. Address for service in Australia - Shelston IP Level 21 60 Margaret Street Sydney NSW 2000

Amendments Made

2003

2003231863 **Valspar Sourcing, Inc.** The nature of the amendment is as shown in the statement(s) filed 04 Nov 2009

2003295896 **Qualcomm, Incorporated** The nature of the amendment is as shown in the statement(s) filed 16 Oct 2009

2004

2004201049 **Sumitomo Metal Mining Co., Ltd.** The nature of the amendment is: Amend Co-Inventor Kemori, Nobuasa to Kemori, Nobumasa

2004202382 **Inverness Medical Switzerland GmbH** The nature of the amendment is: Amend the priority details from INID(31) 0312801.2; INID(33) GB; INID(32) 04.06.2003 to INID(31) 0312802.2; INID(33) GB; INID(32) 04.06.2003

2004206971 **Milkhaus Laboratory, Inc.** The nature of the amendment is: Add priority detail under INID (61) 719823

2004207180 **Wobben, A.** The nature of the amendment is as shown in the statement(s) filed 03 Jun 2009

2004224061 **Sterix Limited** The nature of the amendment is: Amend co-inventor name from Purohit, Alan to Purohit, Atul

2004225437 **Receptor Biologix, Inc.** The nature of the amendment is as shown in the statement(s) filed 27 Nov 2009

2004268451 **NGK Insulators, Ltd.** The nature of the amendment is as shown in the statement(s) filed 27 Jul 2009

2004281178 **Tyco Healthcare Group, LP** The nature of the amendment is: Amend the invention title to read Method of joining materials

2004320625 **Anadys Pharmaceuticals, Inc.** The nature of the amendment is: Amend the invention title to read 3-beta-D-ribofuranosylthiazolo[4,5-d]pyrimidine nucleosides and uses thereof

2005

2005101038 **Cospak Pty Ltd** The nature of the amendment is as shown in the statement(s) filed 17 Sep 2009

Amendments

2005217634 **MIOX Corporation** The nature of the amendment is as shown in the statement(s) filed 05 Nov 2009

2005237588 **Mount Sinai School of Medicine of New York University; The Whitehead Institute for Biomedical Research; Massachusetts Institute of Technology; VaxDesign Corp.; The Scripps Research Institute** The nature of the amendment is: Amend the co-inventors name from Sanchez, Guzman to Sanchez-Schmitz, Guzman; from Randlolph, Gwendalyn to Randlolph, Gwendalyn J. and from Nacohen, Nir to Harcohen, Nir

2005239726 **Sumitomo Chemical Company, Limited** The nature of the amendment is: Amend the invention title to read Pesticidal composition comprising pyriproxyfen

2005245875 **ICOS Corporation** The nature of the amendment is as shown in the statement(s) filed 27 Oct 2009

2005246918 **Goeken Group Corp.** The nature of the amendment is: Add the co-inventor Janik, Raymond G.

2006

2006200437 **Amgen Inc.** The nature of the amendment is: Amend Co-Inventor from Quyang, Xiaohu to Ouyang, Xiaohu

2006242596 **Crown Equipment Corporation** The nature of the amendment is: Amend co-inventor name from Lambert, Brian to Lambert, Brian M.

2006269374 **Massachusetts Institute of Technology** The nature of the amendment is as shown in the statement(s) filed 06 Nov 2009

2006279357 **Vertex Pharmaceuticals Incorporated** The nature of the amendment is: Amend co-inventor name from Jurkaukas, Valdas to Jurkauskas, Valdas

2006279810 **Vertex Pharmaceuticals Incorporated** The nature of the amendment is: Amend co-inventor name from Van Goor, Frederick to van Goor, Frederick F.

2007

2007201633 **The Rockefeller University; Pioneer Hi-Bred International, Inc.** The nature of the amendment is: Add the co-inventor Gordon-Kamm, William J.

2007217042 **Syntonix Pharmaceuticals, Inc.** The nature of the amendment is as shown in the statement(s) filed 26 Feb 2010

2007297677 **Pride Mobility Products Corporation** The nature of the amendment is: Delete the co-inventor Mulhern, James P.

2007362448 **Mitsubishi Heavy Industries, Ltd.** The nature of the amendment is: Amend the invention title to read Wind power generation system and operation control method therof

2007362449 **Mitsubishi Heavy Industries, Ltd.** The nature of the amendment is: Amend the invention title to read Wind turbine generator system and operation control method therefor

2007362451 **Mitsubishi Heavy Industries, Ltd.** The nature of the amendment is: Amend the invention title to read Wind turbine generator

2008

Amendments

2008101177 **Apple Inc.** The nature of the amendment is: Amend the name of the co-inventor from den Boer, Willen to den Boer, Willem

2008101178 **Apple Inc.** The nature of the amendment is: Amend the name of the co-inventor from den Boer, Willen to den Boer, Willem

2008203192 **Accenture Global Services GmbH** The nature of the amendment is as shown in the statement(s) filed 19 Feb 2010

2008220378 **Thompson, G.** Application is to proceed under the number 2008101272

2008232041 **Pasche, B.; Barbault, A.** The nature of the amendment is as shown in the statement(s) filed 26 Feb 2010

2008234020 **Micromet AG** The nature of the amendment is: Delete the co-inventors Steiger, Carola; Burghart, Elke; Ebert, Evelyn; Cierpka, Ronny; Blumel, Claudia; Hausmann, Susanne; Meier, Petra; Strasser, Susanne; Sriskandarajah, Mirnaalini; Schaller, Evelyne; Riethmuller, Gert; Kvesic, Majk; Protzer-Knolle, Ulrike; Meier, Petra and Wissing, Sandra

2008250931 **PlascoEnergy IP Holdings, S.L., Bilbao, Schaffhausen Branch** The nature of the amendment is as shown in the statement(s) filed 17 Feb 2010

2008262038 **Abbott Laboratories; Abbott GmbH & Co. KG** The nature of the amendment is: Amend co-inventor name from Johnson, Eric T. to Johnson, Eric F.

2008266693 **Glowlink Communications Technology, Inc.** The nature of the amendment is as shown in the statement(s) filed 18 Feb 2010

2008272605 **LIMA - LTO SPA** The nature of the amendment is as shown in the statement(s) filed 18 Feb 2010

2008275886 **Qualcomm Incorporated** The nature of the amendment is: Amend co-inventor name from Tinnakornsrisuphap, Peerpol to Tinnakornsrisuphap, Peerapol

2008277406 **Byotrol PLC** The nature of the amendment is as shown in the statement(s) filed 20 Jan 2010

2008278599 **Pipeline Financial Group, Inc.** The nature of the amendment is as shown in the statement(s) filed 16 Feb 2010

2008280183 **Rhodia Operations** The nature of the amendment is as shown in the statement(s) filed 26 Feb 2010

2008281726 **Nokia Siemens Networks Oy** The nature of the amendment is:Amend co-inventor name from Samola, Haki to Hakola, Sami

2008283115 **Armorflex Limited** The nature of the amendment is: Amend inventor name from James, Dallas to James, Dallas Rex

2008283770 **SONY BMG MUSIC ENTERTAINMENT** The nature of the amendment is as shown in the statement(s) filed 17 Feb 2010

2008286355 **Kronotec AG** The nature of the amendment is: Amend the invention title to read Method for reducing the emission of aldehydes and volatile organic compounds form wood-base materials

Amendments

2008286406 **F. Hoffmann-La Roche AG** The nature of the amendment is: Amend the invention title to read Predictive markers for EGFR inhibitor treatment

2008286691 **IHI Corporation; BLUESCOPE STEEL LIMITED** The nature of the amendment is: Add co-inventor Sosinsky, David J.

2008287445 **Cortex Pharmaceuticals, Inc.** The nature of the amendment is as shown in the statement(s) filed 17 Feb 2010

2008293035 **Daikin Industries, Ltd.** The nature of the amendment is: Amend the invention title to read Humidity control apparatus

2008296212 **Lexicon Pharmaceuticals, Inc.** The nature of the amendment is as shown in the statement(s) filed 08 Mar 2010

2008300733 **HUNTSMAN INTERNATIONAL LLC** The nature of the amendment is as shown in the statement(s) filed 08 Feb 2010

2009

2009905557 **Malkoun, A.** Application is to proceed under the number 2009284716

Alteration of Name(s) of Applicant(s)/Patentee(s)

2001

2001253146 Digene Corporation The name of the patentee has been altered to **QIAGEN Gaithersburg, Inc.**

2002

2002215488 Digene Corporation The name of the patentee has been altered to **QIAGEN Gaithersburg, Inc.**

2002300070 Digene Corporation The name of the patentee has been altered to **QIAGEN Gaithersburg, Inc.**

2002300617 Stargames Corporation Pty Limited The name of the patentee has been altered to **Shuffle Master Australasia Pty Limited**

2002301067 Stargames Corporation Pty Limited The name of the patentee has been altered to **Shuffle Master Australasia Pty Limited**

2002304229 Stargames Corporation Pty Limited The name of the patentee has been altered to **Shuffle Master Australasia Pty Limited**

2003

2003200193 Nortel Networks Corporation The name of the patentee has been altered to **Nortel Networks Limited**

2003238563 Ecotech (Aust) Pty Ltd The name of the patentee has been altered to **EcoCatalysts Pty Ltd**

2003278764 Cerulean Pharma, Inc. The name of the applicant has been altered to **Cerulean Pharma Inc.**

2003296014 University of Maryland Biotechnology Institute The name of the applicant has been altered to **University of Maryland Biotechnology Institute; University of Maryland, Baltimore**

2004

Amendments

2004221897 University of Pittsburgh The name of the applicant has been altered to **University of Pittsburgh - of the Commonwealth System of Higher Education**

2004248995 Neurochem (International) Limited The name of the applicant has been altered to **BELLUS Health (International) Limited**

2004270765 Acyte Biotec Pty Ltd The name of the applicant has been altered to **Acyte Biotech Pty Ltd**

2004281178 US Surgical a division of Tyco Healthcare Grou, LP The name of the applicant has been altered to **Tyco Healthcare Group, LP**

2004292194 GE Homeland Protection, Inc. The name of the applicant has been altered to **Morpho Detection, Inc.**

2005

2005200974 Stargames Corporation Pty Limited The name of the patentee has been altered to **Shuffle Master Australasia Pty Limited**

2005200984 Stargames Corporation Pty Limited The name of the patentee has been altered to **Shuffle Master Australasia Pty Limited**

2005202629 Stargames Corporation Pty Limited The name of the patentee has been altered to **Shuffle Master Australasia Pty Limited**

2005202630 Stargames Corporation Pty Limited The name of the patentee has been altered to **Shuffle Master Australasia Pty Limited**

2005202783 Stargames Corporation Pty Limited The name of the patentee has been altered to **Shuffle Master Australasia Pty Limited**

2005202853 Stargames Corporation Pty Limited The name of the patentee has been altered to **Shuffle Master Australasia Pty Limited**

2005211668 Stargames Corporation Pty Limited The name of the patentee has been altered to **Shuffle Master Australasia Pty Limited**

2005227407 Stargames Corporation Pty Limited The name of the patentee has been altered to **Shuffle Master Australasia Pty Limited**

2005237588 Vaxdesign Corporation The name of the applicant has been altered to **Mount Sinai School of Medicine of New York University; The Whitehead Institute for Biomedical Research; Massachusetts Institute of Technology; VaxDesign Corp.; The Scripps Research Institute**

2005244551 Stargames Corporation Pty Limited The name of the patentee has been altered to **Shuffle Master Australasia Pty Limited**

2005246918 Polybrite International, Inc. The name of the applicant has been altered to **Goeken Group Corp.**

2005248935 Stargames Corporation Pty Limited The name of the patentee has been altered to **Shuffle Master Australasia Pty Limited**

2005273742 BioMerieux The name of the applicant has been altered to **bioMerieux**

2005298950 Berna Biotech AG The name of the applicant has been altered to **Crucell Switzerland AG**

Amendments

2005299238 Stargames Corporation Pty Limited The name of the patentee has been altered to **Shuffle Master Australasia Pty Limited**

2006

2006208641 DBT GmbH The name of the applicant has been altered to **Bucyrus Europe GmbH**

2006218711 University of Maryland The name of the applicant has been altered to **University of Maryland, Baltimore**

2006237062 Henkel Kommanditgesellschaft auf Aktien The name of the applicant has been altered to **Henkel AG & Co. KGaA**

2006247091 Merlita Acquisition Corporation The name of the applicant has been altered to **Eye Safety Systems, Inc**

2006282919 Robinson, Beauregard The name of the applicant has been altered to **Robinson, B.; Schillizzi, D.**

2006283553 Biap Systems, Inc. The name of the applicant has been altered to **Fourthwall Media, Inc.**

2006292506 BIAP Systems, Inc. The name of the applicant has been altered to **Fourthwall Media, Inc**

2006310102 Endogun Medical Systems Ltd. The name of the applicant has been altered to **I.B.I Israel Biomedical Innovations Ltd.**

2007

2007201633 The Rockefeller University The name of the applicant has been altered to **The Rockefeller University; Pioneer Hi-Bred International, Inc.**

2007202625 Stargames Corporation Pty Limited The name of the patentee has been altered to **Shuffle Master Australasia Pty Limited**

2007203350 Chung, Ching-Cheng The name of the applicant has been altered to **Chuang, C.**

2007203372 Digene Corporation The name of the applicant has been altered to **QIAGEN Gaithersburg, Inc.**

2007227317 Bayer Healthcare AG The name of the applicant has been altered to **Bayer Schering Pharma Aktiengesellschaft**

2007229263 St Vincent's Hospital Sydney Limited The name of the applicant has been altered to **St Vincent's Hospital Sydney Limited; NewSouth Innovations Pty Limited**

2007259422 Cequent Towing Products, Inc. The name of the applicant has been altered to **Cequent Performance Products Inc.**

2007269104 SEMMT, Inc. The name of the applicant has been altered to **Apaxis Medical, Inc.**

2007293868 PFAFF AQS GmbH automatishce Qualiatskontrollsysteme The name of the applicant has been altered to **FL Smidth Wuppertal GmbH**

2007293940 PFAFF AQS GmbH automatische Qualitatskontrollsysteme The name of the applicant has been altered to **FL Smidth Wuppertal GmbH**

Amendments

2007312869 Bidell Equipment Limited Partnership; Total Energy Services Ltd. The name of the applicant has been altered to **Total Energy Services Inc.; Bidell Equipment Limited Partnership**

2007323836 Eli Lilly & Co. The name of the applicant has been altered to **ICOS Corporation**

2007357148 Cardinal Health 303, Inc. The name of the applicant has been altered to **CareFusion 303, Inc.**

2007357799 Tata Steel Limited; Bhuyan, B. The name of the applicant has been altered to **Tata Steel Limited**

2008

2008204530 TransTech Pharma The name of the applicant has been altered to **TransTech Pharma, Inc.**

2008207617 Apple Computer, Inc. The name of the applicant has been altered to **Apple Inc.**

2008223154 Ansul Incorporated The name of the applicant has been altered to **Ansul, Incorporated**

2008241447 VertiFlex Inc. The name of the applicant has been altered to **VertiFlex, Inc.**

2008266190 Hallock, Robert B.; Raytheon Company The name of the applicant has been altered to **Raytheon Company**

2008266693 Glowlink Communications Tecnology, Inc. The name of the applicant has been altered to **Glowlink Communications Technology, Inc.**

2008276565 WMG Gaming Inc. The name of the applicant has been altered to **WMS Gaming Inc.**

2008279355 THE UNIVERSITY OF UTAH RESEARCH FOUNDATION; BRIGHAM YOUNG UNIVERSITY The name of the applicant has been altered to **UNIVERSITY OF UTAH RESEARCH FOUNDATION; BRIGHAM YOUNG UNIVERSITY**

2008282160 CSD, Inc. The name of the applicant has been altered to **CSD, LLC**

2008283794 The Board of Regents of the University of Texas System The name of the applicant has been altered to **Board of Regents, The University of Texas System**

2008283795 The Board of Regents of the University of Texas System The name of the applicant has been altered to **Board of Regents, The University of Texas System**

2008283813 Targacept, Inc.; Medical College of Georgia The name of the applicant has been altered to **Targacept, Inc.; Medical College of Georgia Research Institute, Inc.**

2008284172 Geco Technology B.V.; SCHLUMBERGER CANADA LIMITED The name of the applicant has been altered to **Geco Technology B.V.**

2008285524 ROLLS-ROYCE PLC The name of the applicant has been altered to **Rolls-Royce Fuel Cell Systems Limited**

Amendments

2008286667 AFFIRIS AG; Brunner, Sylvia; Wittmann, Barbara; Luhrs, Petra; Mattner, Frank; Schmidt, Walter The name of the applicant has been altered to **AFFIRIS AG**

2009

2009100829 Belt-Up The name of the patentee has been altered to **Johnston, I.; Johnston, A.**

2009200482 Oligos Etc. Inc. The name of the applicant has been altered to **Lakewood-Amedex, Inc.**

2009225302 Anadis Ltd The name of the applicant has been altered to **Immuron Limited**

2009905303 Monash University The name of the applicant has been altered to **Royal Melbourne Institute of Technology; Monash University**

2009906194 UniQuest Pty Limited The name of the applicant has been altered to **University of Technology, Sydney**

2009906238 Andon Corporation Pty Ltd The name of the applicant has been altered to **Vuly Pty Ltd**

2009906243 Andon Corporation Pty Ltd The name of the applicant has been altered to **Vuly Pty Ltd**

2010

2010900406 Holding, Barry; Collison & Co The name of the applicant has been altered to **Holding, B.**

Notice of Intention to Amend Complete Specification of Patent Application pursuant to Order 58 Rule 10(1) of the Federal Court Rules

Australian Patent 2006226731 in the name(s) of Expo-Net Danmark A/S

Australian Patent 2007100339 in the name(s) of Expo-Net Danmark A/S

Applications Open to Public Inspection

Name Index

. (*) Title not in Roman characters
. (**) Title not given

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(71) Accenture Global Services GmbH
(11) AU-A-2009212942
(21) 2009212942 **(22)** 04.09.2009
(54) Tariff management deployment automation
(51) Int. Cl.
G06Q 20/00 (2006.01)
G06F 17/30 (2006.01)
(31) PI20083432 **(32)** 05.09.08 **(33)** MY
(43) 25.03.2010
(72) How, Adrian Evan; Lau, Kin Yip; Wong, Ming Hon; Kua, Jasmine Mei Ping
(74) Callinans

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(71) Accenture Global Services GmbH
(11) AU-A-2009212943
(21) 2009212943 **(22)** 04.09.2009
(54) Tariff management test automation
(51) Int. Cl.
G06Q 20/00 (2006.01)
G06F 17/30 (2006.01)
(31) PI20083433 **(32)** 05.09.08 **(33)** MY
(43) 25.03.2010
(72) Wong, Ming Hon; Kua, Jasmine Mei Ping; How, Adrian Evan; Lau, Kin Yip
(74) Callinans

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(71) Alk-Abello A/S
(11) AU-A-2010200798
(21) 2010200798 **(22)** 03.03.2010
(54) An allergen dosage form
(51) Int. Cl.
A61K 9/00 (2006.01)
A61K 39/35 (2006.01)
A61K 39/36 (2006.01)
A61K 9/20 (2006.01)
(43) 25.03.2010
(62) 2003283207
(72) Jacobi, Henrik Hugo; Lundegaard, Annette Rommelmayer; Houghton, Christian Gauguin; Aasmul-Olsen, Stig; Maerkedahl, Lise Lund; Andersen, Jan Sondergaard
(74) FB Rice & Co

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(71) Arichell Technologies, Inc.
(11) AU-A-2010200810
(21) 2010200810 **(22)** 03.03.2010
(54) Toilet flusher for water tanks with novel valves and dispensers
(51) Int. Cl.
F16K 31/12 (2006.01)
E03C 1/05 (2006.01)
E03D 1/30 (2006.01)
E03D 1/33 (2006.01)
E03D 1/36 (2006.01)
E03D 5/10 (2006.01)
F16K 21/12 (2006.01)
(43) 25.03.2010
(62) 2003223588
(72) Guler, Fatih; Hadley, David; Herbert, Kay; Mo, Xiaoxiong; Parsons, Nathan E.
(74) Phillips Ormonde Fitzpatrick

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(71) Aristocrat Technologies Australia Pty Limited
(11) AU-A-2009201215
(21) 2009201215 **(22)** 27.03.2009
(54) A method of gaming, a gaming system and a game controller
(51) Int. Cl.
A63F 9/24 (2006.01)
A63F 13/10 (2006.01)
(31) 2008901496 **(32)** 28.03.08 **(33)** AU
(43) 25.03.2010
(72) Bramble, Paul Francis Jason
(74) Griffith Hack

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(71) Aristocrat Technologies Australia Pty Limited
(11) AU-A-2009201981
(21) 2009201981 **(22)** 20.05.2009
(54) A gaming system and method of gaming
(51) Int. Cl.
A63F 13/10 (2006.01)
(31) 61/054,650 **(32)** 20.05.08 **(33)** US
(43) 25.03.2010
(72) Jasper, Jacob M.; Jasper, Steven A.
(74) Griffith Hack

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(71) AstraZeneca AB
(11) AU-A-2010200821
(21) 2010200821 **(22)** 03.03.2010
(54) Immediate release pharmaceutical formulation
(51) Int. Cl.
A61K 9/00 (2006.01)
A61K 9/08 (2006.01)
A61K 9/20 (2006.01)
A61K 31/397 (2006.01)
A61K 47/10 (2006.01)
A61K 47/12 (2006.01)
A61K 47/26 (2006.01)
A61K 47/40 (2006.01)
A61P 7/02 (2006.01)
A61P 9/00 (2006.01)
A61P 9/10 (2006.01)
C07D 205/04 (2006.01)
(43) 25.03.2010
(62) 2003241239
(72) Abrahmsen Alami, Susanna; Inghardt, Tord; Magnusson, Anders; Sigfridsson, Carl-Gustaf; Thune, Mikael
(74) Davies Collison Cave

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(71) Aussie Traveller Pty Ltd
(11) AU-A-2008212019
(21) 2008212019 **(22)** 05.09.2008
(54) Caravan awning
(51) Int. Cl.
E04H 15/08 (2006.01)
B60P 3/355 (2006.01)
E04F 10/04 (2006.01)
(43) 25.03.2010
(72) Not Given
(74) Kevin M Pullen

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(71) Ayoub, C.
(11) AU-A-2009213020
(21) 2009213020 **(22)** 09.09.2009
(54) Scaffolding System
(51) Int. Cl.
E04G 1/02 (2006.01)
(31) 2008905899 **(32)** 17.11.08 **(33)** AU
2008904680 09.09.08 AU
(43) 25.03.2010
(72) Ayoub, Chris
(74) Wallington-Dummer

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(71) BAE Systems PLC
(11) AU-A-2008252016
(21) 2008252016 **(22)** 04.12.2008
(54) Gun field tow
(51) Int. Cl.
F41A 23/00 (2006.01)
F41A 23/28 (2006.01)
F41A 23/30 (2006.01)
(31) 0724687.9 **(32)** 18.12.07 **(33)** GB
(43) 25.03.2010
(72) Eaglestone, David Andrew
(74) Griffith Hack

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(71) Bakerco Pty Ltd
(11) AU-A-2009212990
(21) 2009212990 **(22)** 07.09.2009
(54) Method For Harvesting a Substance From a Living Tree
(51) Int. Cl.
A01G 23/10 (2006.01)
A01G 23/14 (2006.01)
(31) 2008904645 **(32)** 08.09.08 **(33)** AU
(43) 25.03.2010
(72) Baker, Brenton John; Baker, Shayne Brian
(74) Wrays

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(71) Bayer HealthCare LLC
(11) AU-A-2010200793
(21) 2010200793 **(22)** 02.03.2010
(54) Factor VII or VIIa Gla domain variants
(51) Int. Cl.
C07K 14/745 (2006.01)
A61K 38/48 (2006.01)
C12N 9/64 (2006.01)
C12N 15/57 (2006.01)
A61K 38/00 (2006.01)

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(43) 25.03.2010
(62) 2004247799
(72) Andersen, Kim Vilbour; Bornaes, Claus; Haaning, Jesper Mortensen
(74) Spruson & Ferguson

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(71) Betts, E.
(11) AU-A-2009212906
(21) 2009212906 **(22)** 02.09.2009
(54) Trailer hitch
(51) Int. Cl.
B60D 1/46 (2006.01)
B60D 1/00 (2006.01)
B60D 1/48 (2006.01)
(31) 2008904552 **(32)** 02.09.08 **(33)** AU
(43) 25.03.2010
(72) Betts, Ernest
(74) Actuate IP

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(71) BGC Partners, Inc.
(11) AU-A-2010200795
(21) 2010200795 **(22)** 02.03.2010
(54) Systems and Methods for Providing Enhanced Volume-Weighted Average Price Trading
(51) Int. Cl.
G06Q 40/00 (2006.01)
(43) 25.03.2010
(62) 2004220731
(72) Jokisch, Philipp; Sweeting, Michael
(74) Cullens Patent and Trade Mark Attorneys

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(71) Biosense Webster, Inc.
(11) AU-A-2009212971
(21) 2009212971 **(22)** 07.09.2009
(54) Deflectable catheter with bonded center strut and method of manufacture for same
(51) Int. Cl.
A61M 25/01 (2006.01)
A61B 18/00 (2006.01)
(31) 12/207,130 **(32)** 09.09.08 **(33)** US
(43) 25.03.2010
(72) Hill, Irma; Grunewald, Debby; Selkee, Thomas Vaino
(74) Callinans

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(71) Biosense Webster, Inc.
(11) AU-A-2009212972
(21) 2009212972 **(22)** 07.09.2009
(54) Force-sensing catheter with bonded center strut
(51) Int. Cl.
A61M 25/01 (2006.01)
(31) 12/207,155 **(32)** 09.09.08 **(33)** US
(43) 25.03.2010
(72) Selkee, Thomas Vaino
(74) Callinans

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(71) Centelion
(11) AU-A-2010200801
(21) 2010200801 **(22)** 03.03.2010
(54) Method of preparation of pharmaceutically grade plasmid DNA
(51) Int. Cl.
C12N 15/10 (2006.01)
A61K 48/00 (2006.01)
C12N 1/06 (2006.01)
(43) 25.03.2010
(62) 2004272748
(72) Blanche, Francis; Couder, Michel; Gaillac, David; Guillemin, Thierry; Maestrali, Nicolas
(74) Middletons

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(71) Chilvers, J.
(11) AU-A-2009212874
(21) 2009212874 **(22)** 31.08.2009
(54) Licence plate device
(51) Int. Cl.
G09F 9/00 (2006.01)
B60Q 1/56 (2006.01)
B60R 1/06 (2006.01)
B60R 21/00 (2006.01)
G09F 13/00 (2006.01)
(31) 2008904635 **(32)** 08.09.08 **(33)** AU
(43) 25.03.2010
(72) Chilvers, John
(74) Baxter IP

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(71) Chuzhou Yangzi Wood Industry Co., Ltd.
(11) AU-A-2009213033
(21) 2009213033 **(22)** 08.09.2009
(54) Floor Panel with Coupling Device
(51) Int. Cl.
E04F 15/14 (2006.01)
(31) 200810198567.9 **(32)** 10.09.08 **(33)** CN
(43) 25.03.2010
(72) Lei, Xiang
(74) Halfords IP

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(71) Clarey, M.
(11) AU-A-2009213035
(21) 2009213035 **(22)** 10.09.2009
(54) Apparatus for generating a current in a pool
(51) Int. Cl.
E04H 4/12 (2006.01)
A63B 26/00 (2006.01)
A63B 31/00 (2006.01)
F04D 3/00 (2006.01)
F04D 25/06 (2006.01)
F04D 29/54 (2006.01)
F04D 35/00 (2006.01)
(31) 2008904719 **(32)** 10.09.08 **(33)** AU
(43) 25.03.2010
(72) Clarey, Michael
(74) Cotters Patent & Trade Mark Attorneys

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(71) Collison & Co ; Ghassabian, B.
(11) AU-A-2010200802
(21) 2010200802 **(22)** 03.03.2010
(54) Systems to enhance data entry in mobile and fixed environment
(51) Int. Cl.
G09G 5/00 (2006.01)
B41J 3/42 (2006.01)
B41J 3/44 (2006.01)
G06F 1/16 (2006.01)
G06F 3/01 (2006.01)
G06F 3/02 (2006.01)
G06F 3/023 (2006.01)
G06F 3/033 (2006.01)
G06F 3/048 (2006.01)
G06F 3/16 (2006.01)
G10L 15/24 (2006.01)
G10L 15/26 (2006.01)
H04M 1/02 (2006.01)
H04M 1/23 (2006.01)
H04M 1/725 (2006.01)
H04M 1/27 (2006.01)
(43) 25.03.2010
(62) 2004232013
(72) Ghassabian, Benjamin Firooz
(74) Collison & Co

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(71) Cowey, S.
(11) AU-A-2010200807
(21) 2010200807 **(22)** 03.03.2010
(54) An improved vehicle loading dock fender assembly
(51) Int. Cl.
B65G 69/34 (2006.01)
B65G 69/00 (2006.01)
E01F 15/14 (2006.01)
(43) 25.03.2010
(62) 2006246507
(72) Cowey, Steven John
(74) Madderns

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(71) Cronk, P.
(11) AU-A-2010200781
(21) 2010200781 **(22)** 02.03.2010
(54) Adjustable Luminaire
(51) Int. Cl.
F21V 7/16 (2006.01)
(43) 25.03.2010
(62) 759725
(72) Cronk, Paul Andrew
(74) Fraser Old & Sohn

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(71) Cronk, P.
(11) AU-A-2010200796
(21) 2010200796 **(22)** 02.03.2010
(54) Adjustable Reflector Device
(51) Int. Cl.
F21V 7/16 (2006.01)
(43) 25.03.2010
(62) 716550
(72) Cronk, Paul Andrew
(74) Fraser Old & Sohn

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(71) ENANEF Limited
(11) AU-A-2009213000
(21) 2009213000 **(22)** 08.09.2009
(54) Leg exerciser device
(51) Int. Cl.
A63B 21/062 (2006.01)
A63B 23/04 (2006.01)
(31) 0816453.5 **(32)** 09.09.08 **(33)** GB
(43) 25.03.2010
(72) Summers, Neil
(74) Ahearn Fox

Frontier Biotechnologies Co., Ltd see Xie, D.
(21) 2010200823

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(71) Gebr. Willach GmbH
(11) AU-A-2009212907
(21) 2009212907 **(22)** 01.09.2009
(54) Combined storage system

Applications Open to Public Inspection - Name Index cont'd

(51) Int. Cl.
B65G 1/137 (2006.01)
B65G 1/00 (2006.01)
B65G 1/04 (2006.01)
(31) 20 2008 012 070.5 **(32)** 11.09.08 **(33)** DE
(43) 25.03.2010
(72) Willach, Jens; Schmitt, Werner
(74) Phillips Ormonde Fitzpatrick

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(71) Gebr. Willach GmbH
(11) AU-A-2009212908
(21) 2009212908 **(22)** 01.09.2009
(54) Storage automat
(51) Int. Cl.
B65G 1/12 (2006.01)
B65G 1/04 (2006.01)
(31) 20 2008 012 069.1 **(32)** 11.09.08 **(33)** DE
(43) 25.03.2010
(72) Willach, Jens; Schmitt, Werner; Campe, Tobias
(74) Phillips Ormonde Fitzpatrick

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(71) Genentech, Inc. ; Novartis AG
(11) AU-A-2010200784
(21) 2010200784 **(22)** 02.03.2010
(54) High concentration antibody and protein formulations
(51) Int. Cl.
A61K 39/395 (2006.01)
A61K 47/18 (2006.01)
A61K 47/26 (2006.01)
(43) 25.03.2010
(62) 2004229335
(72) Liu, Jun; Shire, Steven
(74) Griffith Hack

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(71) General Electric Company
(11) AU-A-2009251226
(21) 2009251226 **(22)** 27.08.2009
(54) Composition, energy storage device, and method
(51) Int. Cl.
H01M 4/00 (2006.01)
(31) 12/330,735 **(32)** 09.12.08 **(33)** US
61/095,380 09.09.08 US
12/330,714 09.12.08 US
12/330,752 09.12.08 US
(43) 25.03.2010
(72) Sundararajan, Guruprasad; Vallance, Michael Alan; Seshadri, Hari Nadathur; Iacovangelo, Charles Dominic; Bogdan, David; Gourishankar, Karthick Vilapakkam
(74) Phillips Ormonde Fitzpatrick

Ghassabian, B. see Collison & Co
(21) 2010200802

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(71) GlaxoSmithKline Biologicals S.A. ; Utrecht University
(11) AU-A-2009217425
(21) 2009217425 **(22)** 06.03.2009
(54) Vaccine
(51) Int. Cl.
C07K 14/22 (2006.01)
(31) 0816447.7 **(32)** 08.09.08 **(33)** GB
(43) 25.03.2010
(72) Poolman, Jan; Tommassen, Johannes Petrus Maria; Bos, Martine Petronello; Stork, Michiel; Weynants, Vincent
(74) Shelston IP

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(71) Haldor Topsoe A/S
(11) AU-A-2009213001
(21) 2009213001 **(22)** 08.09.2009
(54) Improved hydrotreatment process
(51) Int. Cl.
C01B 3/38 (2006.01)
C01B 3/48 (2006.01)
(31) PA 2008 01268 **(32)** 10.09.08 **(33)** DK
(43) 25.03.2010
(72) Knudsen, Kim Gron; Egeberg, Rasmus Gottschalck; Anderson, Kim Hedegaard; Breivik, Rasmus; Nielsen, Poul Erik Hojlund
(74) Watermark Patent & Trademark Attorneys

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(71) Holmes Nominees (Aust) Pty Ltd
(11) AU-A-2009212918
(21) 2009212918 **(22)** 04.09.2009
(54) Fibre Reinforced Pre-Case Concrete In-Ground Structures and Methods of Manufacture of the Same
(51) Int. Cl.
C04B 16/06 (2006.01)
B28B 1/52 (2006.01)
B32B 13/02 (2006.01)
(31) 2008904625 **(32)** 05.09.08 **(33)** AU
(43) 25.03.2010
(72) Holmes, John Francis; Moulton, Patrick Michael
(74) Callinans

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(71) Howmedica Osteonics Corp.
(11) AU-A-2009212973
(21) 2009212973 **(22)** 07.09.2009
(54) Knotless suture anchor for soft tissue repair and method of use
(51) Int. Cl.
A61B 17/04 (2006.01)
(31) 12/206,643 **(32)** 08.09.08 **(33)** US
(43) 25.03.2010
(72) Feezor, Christopher; Cohen, Nathaniel; Cheng, Christopher T.; Van Der Burg, Erik
(74) Phillips Ormonde Fitzpatrick

Indian Institute of Science see National Institute of Immunology
(21) 2009200906

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(71) InterDigital Technology Corporation
(11) AU-A-2010200334
(21) 2010200334 **(22)** 29.01.2010
(54) Generation of user equipment identification
(51) Int. Cl.
H04B 7/216 (2006.01)
H03M 13/23 (2006.01)
H04J 13/00 (2006.01)
H04J 13/04 (2006.01)
H04L 1/00 (2006.01)
H04L 1/08 (2006.01)
H04L 29/08 (2006.01)
H04W 12/02 (2009.01)
H04L 1/18 (2006.01)
(43) 25.03.2010
(62) 2007231897
(72) Not Given
(74) Watermark Patent & Trademark Attorneys

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(71) Intuit Inc.
(11) AU-A-2009213059
(21) 2009213059 **(22)** 09.09.2009
(54) Method and system for generating a dynamic help document
(51) Int. Cl.
G06F 19/00 (2006.01)
(31) 12/209,102 **(32)** 11.09.08 **(33)** US
(43) 25.03.2010
(72) Coletta, Paul; Podgorny, Igor A.; Rohatgi, Amit
(74) Davies Collison Cave

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(71) Jarvis Engineering Technologies (NZ) Limited
(11) AU-A-2009212957
(21) 2009212957 **(22)** 07.09.2009
(54) Electric stunner
(51) Int. Cl.
A22B 3/06 (2006.01)
(31) NZ571122 **(32)** 09.09.08 **(33)** NZ
(43) 25.03.2010
(72) Lee, Allan Philip
(74) Pipers Patent Attorneys

Jiang, H. see Xie, D.
(21) 2010200823

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(71) Johnson & Johnson Vision Care, Inc.
(11) AU-A-2010200783
(21) 2010200783 **(22)** 02.03.2010
(54) Molds for producing contact lenses
(51) Int. Cl.
G02C 7/04 (2006.01)
B29C 33/40 (2006.01)
B29D 11/00 (2006.01)
C08F 232/08 (2006.01)
C08G 61/02 (2006.01)
C08G 61/04 (2006.01)
C08G 61/08 (2006.01)
C08J 5/00 (2006.01)
G02B 1/04 (2006.01)
B29L 11/00 (2006.01)
(43) 25.03.2010
(62) 2003255279
(72) Abrams, Richard W.; Ansell, Scott F.; Copper, Lenora L.; Dubey, Dharmesh K.; Fougere, Richard J.; Gourd, Dominic; Matiacio, Thomas A.; McCabe, Kevin P.; Rooney, Thomas R.; Song, Xu; Turner, David C.
(74) Callinans

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(71) Kennovations Pty Limited
(11) AU-A-2009212897
(21) 2009212897 **(22)** 02.09.2009
(54) Jackhammer Trolley
(51) Int. Cl.
B25D 17/32 (2006.01)

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B62B 3/04 (2006.01)
B62B 3/10 (2006.01)
B62B 5/06 (2006.01)
E21B 7/00 (2006.01)
E21B 7/02 (2006.01)
(31) 2008904632 **(32)** 08.09.08 **(33)** AU
(43) 25.03.2010
(72) Not Given
(74) CRE8BIZ Pty Ltd

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(71) Kim, M.
(11) AU-A-2009213061
(21) 2009213061 **(22)** 10.09.2009
(54) Connector for linear members
(51) Int. Cl.
E04B 1/58 (2006.01)
F16B 7/00 (2006.01)
(31) 10-2008-0089624 **(32)** 11.09.08 **(33)** KR
(43) 25.03.2010
(72) Kim, Myoung-su
(74) Madderns

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(71) King Furniture (Australia) Pty Ltd
(11) AU-A-2009213008
(21) 2009213008 **(22)** 08.09.2009
(54) Back rest for a chair
(51) Int. Cl.
A47C 7/42 (2006.01)
(31) 2008904678 **(32)** 09.09.08 **(33)** AU
(43) 25.03.2010
(72) Higgs, Steven Leonard; King, David Russell
(74) FB Rice & Co

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(71) Konami Gaming, Inc.
(11) AU-A-2008229959
(21) 2008229959 **(22)** 15.10.2008
(54) Gaming Machine with Bonus Game
(51) Int. Cl.
A63F 13/10 (2006.01)
G07F 9/00 (2006.01)
(31) 12/283,064 **(32)** 08.09.08 **(33)** US
(43) 25.03.2010
(72) Takahashi, Katsumi; Yoshimura, Toshiyuki
(74) Wallington-Dummer

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(71) Larkden Pty Limited
(11) AU-A-2010200829
(21) 2010200829 **(22)** 04.03.2010
(54) Method and apparatus for storing heat energy
(51) Int. Cl.
F28F 21/02 (2006.01)
C09K 5/00 (2006.01)
F28D 20/00 (2006.01)
(43) 25.03.2010
(62) 2005222444
(72) Dutt, Hirak; Gentle, Richard; Hamer, Steven John; Hollis, Stephen
(74) Spruson & Ferguson

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(71) Levon, L.
(11) AU-A-2009201831
(21) 2009201831 **(22)** 07.05.2009
(54) A reflector apparatus suitable for roads and vehicles or as an ornament
(51) Int. Cl.
G02B 5/13 (2006.01)
E01F 9/015 (2006.01)
(31) 0810263.4 **(32)** 04.06.08 **(33)** GB
08445033 14.10.08 EP
09445010 31.03.09 EP
0901332.7 28.01.09 GB
0813946.1 31.07.08 GB
(43) 25.03.2010
(72) Levon, Leif
(74) Collison & Co

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(71) Lock Focus Pty Ltd
(11) AU-A-2009213064
(21) 2009213064 **(22)** 08.09.2009
(54) Canopy lockable latches
(51) Int. Cl.
E05B 13/10 (2006.01)
E05B 65/12 (2006.01)
(31) 2008904732 **(32)** 11.09.08 **(33)** AU
(43) 25.03.2010
(72) Walsh, John; Gilbatsas, Nathan
(74) Watermark Patent & Trademark Attorneys

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(51) Int. Cl.
G06F 1/00 (2006.01)
G06F 17/30 (2006.01)
(43) 25.03.2010
(62) 2002339229
(72) Loureiro, Jorge Diniz Queiroga
(74) Cullens Patent and Trade Mark Attorneys

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(11) AU-A-2008224339
(21) 2008224339 **(22)** 24.09.2008
(54) Fragrance emitting patch and compact for holding a plurality of such patches
(51) Int. Cl.
A61L 9/03 (2006.01)
A45D 40/22 (2006.01)
B65D 1/22 (2006.01)
B65D 25/54 (2006.01)
B65D 43/16 (2006.01)
B65D 65/42 (2006.01)
B65D 75/36 (2006.01)
B65D 85/62 (2006.01)
(31) 60/974,671 **(32)** 24.09.07 **(33)** US
(43) 25.03.2010
(72) Moscherosch, H. Michael; Gannon, Elaine M.
(74) Shelston IP

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(11) AU-A-2009200906
(21) 2009200906 **(22)** 06.03.2009
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(51) Int. Cl.
C07K 14/62 (2006.01)
A61K 38/22 (2006.01)
A61K 38/28 (2006.01)
A61P 5/48 (2006.01)
C07K 14/575 (2006.01)
(31) 914/DEL/2008 **(32)** 07.04.08 **(33)** IN
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(11) AU-A-2010200804
(21) 2010200804 **(22)** 03.03.2010
(54) An insulated glass unit (IGU) and a point fixing apparatus for an IGU
(51) Int. Cl.
E06B 3/673 (2006.01)
E06B 3/66 (2006.01)
E06B 3/663 (2006.01)
E06B 3/667 (2006.01)
(43) 25.03.2010
(62) 2008234426
(72) Clair, Murray Robert; McWilliam, Craig Adam
(74) Davies Collison Cave

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A61M 15/00 (2006.01)
A61B 5/085 (2006.01)
A61M 15/08 (2006.01)
A61B 5/097 (2006.01)
A61M 11/00 (2006.01)
A61M 16/00 (2006.01)
(43) 25.03.2010
(62) 2007202918
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(11) AU-A-2009208125
(21) 2009208125 **(22)** 12.08.2009
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(51) Int. Cl.
G01V 1/38 (2006.01)
C09J 175/04 (2006.01)
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(43) 25.03.2010
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(74) Davies Collison Cave

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(11) AU-A-2010200776
(21) 2010200776 **(22)** 02.03.2010
(54) LDPC decoding methods and apparatus
(51) Int. Cl.
H03M 13/00 (2006.01)
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(62) 2005329064
(72) Richardson, Tom; Novichkov, Vladimir; Jin, Hui
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(21) 2010200777 **(22)** 02.03.2010
(54) LDPC decoding methods and apparatus
(51) Int. Cl.
H03M 13/00 (2006.01)
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(21) 2010200778 **(22)** 02.03.2010
(54) LDPC decoding methods and apparatus
(51) Int. Cl.
G06F 9/50 (2006.01)
H03M 13/00 (2006.01)
(43) 25.03.2010
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(11) AU-A-2009212774
(21) 2009212774 **(22)** 24.08.2009
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(51) Int. Cl.
C08L 75/04 (2006.01)
(31) 08290852.6 **(32)** 10.09.08 **(33)** FR
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(21) 2009202950 **(22)** 22.07.2009
(54) Low temperature showcase
(51) Int. Cl.
A47F 3/04 (2006.01)
H05B 3/84 (2006.01)
(31) 228431/2008 **(32)** 05.09.08 **(33)** JP
(43) 25.03.2010
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A47F 3/04 (2006.01)
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(54) Low temperature showcase
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A47F 3/04 (2006.01)
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E02D 7/02 (2006.01)
E02B 17/02 (2006.01)
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(74) Fisher Adams Kelly

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(54) Improvement(s) Related to Particle Monitors and Method(s) Therefor
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G08B 17/10 (2006.01)
(43) 25.03.2010
(62) 2004286360
(72) Cole, Martin Terence
(74) Smoorenburg Pini Patent & Trade Mark Attorneys

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(21) 2010200822 **(22)** 03.03.2010
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(51) Int. Cl.
A61K 38/45 (2006.01)
A61K 38/48 (2006.01)
A61P 35/00 (2006.01)
G01N 33/574 (2006.01)
(43) 25.03.2010
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A61B 18/14 (2006.01)
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(54) Downhole window finder system
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E21B 41/00 (2006.01)
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F24J 2/10 (2006.01)
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E01C 23/07 (2006.01)
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H04L 27/26 (2006.01)
H04B 7/12 (2006.01)
H04J 1/00 (2006.01)
H04J 11/00 (2006.01)
H04W 99/00 (2009.01)
(31) 08 171 323.2 **(32)** 11.12.08 **(33)** EP
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(21) 2009213013 **(22)** 07.09.2009
(54) Pipelined image processing engine
(51) Int. Cl.
G06T 1/20 (2006.01)
G06T 3/00 (2006.01)
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F03D 11/04 (2006.01)
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(31) 08 04941 **(32)** 09.09.08 **(33)** FR
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(74) Davies Collison Cave

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C12N 15/85 (2006.01)
(43) 25.03.2010
(72) Hatanaka, Haruyo; Omura, Fumihiko
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C12N 15/09 (2006.01)
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C12N 15/09 (2006.01)
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(21) 2010200808 **(22)** 03.03.2010
(54) Object Location Method and System Using RFID
(51) Int. Cl.
G01S 13/34 (2006.01)
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(43) 25.03.2010
(62) 2005218459
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(11) AU-A-2010200787
(21) 2010200787 **(22)** 02.03.2010
(54) Method of treating movement disorders using barbituric acid derivatives
(51) Int. Cl.
A61K 31/515 (2006.01)
A61P 25/14 (2006.01)
A61P 25/16 (2006.01)
(43) 25.03.2010
(62) 2003302897
(72) Moros, Daniel Aaron
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(21) 2009213084 **(22)** 11.09.2009
(54) Blade guard for power tool having an evacuation system
(51) Int. Cl.
B23D 51/00 (2006.01)
B25F 5/02 (2006.01)
B26D 7/18 (2006.01)
B26D 7/22 (2006.01)
B27B 5/29 (2006.01)
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(21) 2010200649 **(22)** 22.02.2010
(54) Leptin promoter polymorphisms and uses thereof
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C07H 21/04 (2006.01)
C12Q 1/68 (2006.01)
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(62) 2005244673
(72) Moore, Stephen Stewart
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(21) 2009208055

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(11) AU-A-2009212983
(21) 2009212983 **(22)** 04.09.2009
(54) Electrosurgical apparatus with high speed energy recovery
(51) Int. Cl.
A61B 18/12 (2006.01)
A61B 18/18 (2006.01)
(31) 12/205,298 **(32)** 05.09.08 **(33)** US
(43) 25.03.2010
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(21) 2009213017 **(22)** 07.09.2009
(54) Electrosurgical apparatus with high speed energy recovery
(51) Int. Cl.
A61B 18/12 (2006.01)
A61B 18/18 (2006.01)
(31) 12/205,525 **(32)** 05.09.08 **(33)** US
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(11) AU-A-2009213021
(21) 2009213021 **(22)** 07.09.2009
(54) Surgical stapling device
(51) Int. Cl.
A61B 17/115 (2006.01)
A61B 17/068 (2006.01)
(31) 61/227,464 **(32)** 22.07.09 **(33)** US
61/095,647 10.09.08 US
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(21) 2009212980 **(22)** 04.09.2009
(54) Tapered looped suture
(51) Int. Cl.
A61B 17/04 (2006.01)
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(11) AU-A-2009213044
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(54) Surgical port assembly
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A61B 1/313 (2006.01)
A61B 1/32 (2006.01)
(31) 61/191,734 **(32)** 11.09.08 **(33)** US
12/550,595 31.08.09 US
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(11) AU-A-2009213047
(21) 2009213047 **(22)** 10.09.2009
(54) Laparoscopic instrument and related surgical method
(51) Int. Cl.
A61B 1/313 (2006.01)
(31) 12/550,617 **(32)** 31.08.09 **(33)** US
61/191,733 11.09.08 US
(43) 25.03.2010
(72) Piskun, Gregory; Radziunas, Jeffrey; Rottenberg, Dan; Ferreira, Danial; Konik, Anatoly; Battles, Christopher; Abrams, Michael; Shikhman, Oleg
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(11) AU-A-2009208055
(21) 2009208055 **(22)** 10.08.2009
(54) Circular Water Tank Gutter
(51) Int. Cl.
E04D 13/064 (2006.01)
(31) 2008904713 **(32)** 10.09.08 **(33)** AU
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(72) Van Rooyen, Brian; Tognela, Murray
(74) Janet Stead & Associates Patent & Trade Marks Attorneys

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(11) AU-A-2010200816
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(54) Method and device for compacting an intraocular lens
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A61F 2/16 (2006.01)
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(51) Int. Cl.
G06F 17/30 (2006.01)
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(74) Watermark Patent & Trademark Attorneys

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(21) 2009212896 **(22)** 31.08.2009
(54) System, method and device for selection of a design scheme
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G06Q 50/00 (2006.01)
(31) 2008904697 **(32)** 09.09.08 **(33)** AU
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(72) Macqueen, Roderick Ian
(74) Griffith Hack

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(71) Waverley Nominees Pty Ltd
(11) AU-A-2008212035
(21) 2008212035 **(22)** 05.09.2008
(54) A Particulate Material Cleaning And Classifying Apparatus
(51) Int. Cl.
B03B 5/16 (2006.01)
(43) 25.03.2010
(72) Scott, Walter
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(21) 2009212960 **(22)** 03.09.2009
(54) Methods and apparatus for supporting tubulars
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E21B 19/10 (2006.01)
(31) 12/208,157 **(32)** 10.09.08 **(33)** US
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(21) 2009213026 **(22)** 07.09.2009
(54) Harness storage system for child car seats
(51) Int. Cl.
B60N 2/28 (2006.01)
B60R 22/10 (2006.01)
(31) 61/191,607 **(32)** 10.09.08 **(33)** US
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F21V 29/00 (2006.01)
(31) 200810216040.4 **(32)** 05.09.08 **(33)** CN
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(54) Peptide derivative fusion inhibitors of HIV infection
(51) Int. Cl.
A61K 38/00 (2006.01)
C07K 14/16 (2006.01)
(43) 25.03.2010
(62) 2003275116
(72) Xie, Dong; Jiang, He
(74) Peter Maxwell & Associates

Numerical Index

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F21V 29/-

2009278057

F21V 7/-

2010200781
2010200796

F24J 2/-

2010200779

F28D 20/-

2010200829

F28F 21/-

2010200829

F41A 23/-

2008252016

G01N 33/-

2010200822

G01S 13/-

2010200808

G01V 1/-

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G02B 1/-

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G02B 5/-

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G02C 7/-

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G06F 1/-

2010200310
2010200802

G06F 17/-

2009212942
2009212943
2010200310
2010200800

G06F 19/-

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G06F 3/-

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G06F 9/-

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G06Q 20/-

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G06Q 40/-

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G06Q 50/-

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G06T 1/-

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G06T 3/-

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G07F 9/-

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G08B 17/-

2010200806

G09F 13/-

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G09F 9/-

2009212874

G09G 5/-

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G10L 15/-

2010200802

H01M 4/-

2009251226

H03M 13/-

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H04B 7/-

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H04J 1/-

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H04L 1/-

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H04L 27/-

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H04W 99/-

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H05B 3/-

2009202950

No IPC Mark

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(51) Int. Cl.
A47J 42/04 (2006.01)
(31) 200910139452.7 **(32)** 15.06.09 **(33)** CN
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(72) Fong, Chun Keung Aurice
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(54) Roofing assembly and method
(51) Int. Cl.
E04D 3/35 (2006.01)
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G06F 1/16 (2006.01)
(45) 25.03.2010
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(72) Crooijmans, Wim; Howarth, Richard P.; Hobson, Phillip M.
(74) Freehills Patent & Trade Mark Attorneys

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(11) AU-A-2010100165
(21) 2010100165 **(22)** 23.02.2010
(54) Ultra-violet disinfection apparatus
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A61L 2/10 (2006.01)
B01J 19/12 (2006.01)
C02F 1/32 (2006.01)
(45) 25.03.2010
(72) Sly, Robert Harold Alexander
(74) Patent Attorney Services

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(21) 2010100162 **(22)** 19.02.2010
(54) Sampling System and Method
(51) Int. Cl.
G01N 35/00 (2006.01)
G01V 15/00 (2006.01)
(31) 2009905180 **(32)** 23.10.09 **(33)** AU
(45) 25.03.2010
(72) Bellamy, Drew
(74) Drew Bellamy

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(21) 2010100079 **(22)** 25.01.2010
(54) BOG Process
(51) Int. Cl.
C05F 7/00 (2006.01)
C02F 1/00 (2006.01)
(45) 25.03.2010
(72) Caswell, Peter Reid
(74) Bio-Organics Group Pty Ltd

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(71) Buckley, N.
(11) AU-A-2010100104
(21) 2010100104 **(22)** 02.02.2010
(54) Nifty Joint
(51) Int. Cl.
E01C 11/04 (2006.01)
E01C 11/02 (2006.01)
E01D 19/06 (2006.01)
(45) 25.03.2010
(62) 2007101020
(72) Buckley, Neville Ian
(74) Neville Ian Buckley

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(71) Cai, J.
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(21) 2010100178 **(22)** 01.03.2010
(54) Temperature keeping container
(51) Int. Cl.
A47J 41/00 (2006.01)
A47G 19/22 (2006.01)
B65D 81/18 (2006.01)
(45) 25.03.2010
(72) Cai, Jie-Sen
(74) Alfred Lei

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(71) Foster, L. ; Goudy, J.
(11) AU-A-2010100194
(21) 2010100194 **(22)** 03.03.2010
(54) Breast Exposed Breastfeeding and Expressing Under Garment
(51) Int. Cl.
A41C 3/04 (2006.01)
A41C 3/00 (2006.01)
(45) 25.03.2010
(72) Foster, Louise; Goudy, Jacqueline
(74) Louise Michelle Foster

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(21) 2010100194

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(71) Heran Co., Ltd.
(11) AU-A-2010100017
(21) 2010100017 **(22)** 08.01.2010
(54) Remote interactive monitoring and alarm system utilizing television apparatus with video-song accompaniment function
(51) Int. Cl.
G08B 13/196 (2006.01)
G08B 3/10 (2006.01)
G08B 21/02 (2006.01)
H04N 5/00 (2006.01)
H04N 7/14 (2006.01)
(45) 25.03.2010
(72) Tsai, Steven
(74) Acumen Intellectual Property

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(71) Kewley, M.
(11) AU-A-2010100159
(21) 2010100159 **(22)** 18.02.2010
(54) A method of promoting products and/ or services
(51) Int. Cl.
G06Q 30/00 (2006.01)
(45) 25.03.2010
(72) Kewley, Mark
(74) Adams Pluck

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(71) Mironenko, I.
(11) AU-A-2010100147
(21) 2010100147 **(22)** 15.02.2010
(54) Riffle splitter slots lining
(51) Int. Cl.
B01L 1/00 (2006.01)
(45) 25.03.2010
(72) Mironenko, Igor
(74) Igor Mironenko

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(21) 2010100177

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(71) O'Kane, B. ; O'Kane, S.
(11) AU-A-2010100177
(21) 2010100177 **(22)** 26.02.2010
(54) A garment
(51) Int. Cl.
A41D 13/06 (2006.01)
A41D 27/12 (2006.01)
A41D 31/00 (2006.01)
(45) 25.03.2010
(72) O'Kane, Brian; O'Kane, Steven
(74) Griffith Hack

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(71) Phillips, J.
(11) AU-A-2010100004
(21) 2010100004 **(22)** 03.01.2010
(54) Ready to serve oysters
(51) Int. Cl.
B65B 25/22 (2006.01)
B65B 31/02 (2006.01)
B65D 81/20 (2006.01)

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(45) 25.03.2010
(72) Phillips, John Raymond; Korossy, Heidi Irena
(74) John Raymond Phillips

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(11) AU-A-2010100148
(21) 2010100148 **(22)** 15.02.2010
(54) Water heater
(51) Int. Cl.
F24D 19/10 (2006.01)
F24H 9/20 (2006.01)
(45) 25.03.2010
(72) Nevill, Susan
(74) Griffith Hack

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(71) Rotatech Pty Ltd
(11) AU-A-2010100154
(21) 2010100154 **(22)** 04.02.2010
(54) Directional detector
(51) Int. Cl.
G08B 13/18 (2006.01)
G08B 13/196 (2006.01)
G08B 13/26 (2006.01)
H04N 7/18 (2006.01)
(45) 25.03.2010
(62) 2006261577
(72) Moore, Daniel J.
(74) Fisher Adams Kelly

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(54) Managing data flows in graph-based computations
(51) Int. Cl.
G06F 7/00 (2006.01)
(87) WO2009/039352
(31) 60/973,979 **(32)** 20.09.07 **(33)** US
(43) 26.03.2009
(72) Wholey III, Joseph Skeffington; Stanfill, Craig W.
(74) Pizzeys

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(21) 2008292236 **(22)** 26.08.2008
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(51) Int. Cl.
A61M 5/30 (2006.01)
C07K 16/00 (2006.01)
(87) WO2009/027391
(31) 60/966,379 **(32)** 27.08.07 **(33)** US
(43) 05.03.2009
(72) Hakes, Linda Barbara; Dreier, Torsten
(74) Shelston IP

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(11) AU-A-2008286535
(21) 2008286535 **(22)** 24.07.2008
(54) Device for fastening plastic parts to a motor vehicle body
(51) Int. Cl.
B60R 19/18 (2006.01)
F16B 5/02 (2006.01)
(87) WO2009/021483
(31) 20 2007 011 491.5 **(32)** 16.08.07 **(33)** DE
(43) 19.02.2009
(72) Schraer, Thorsten
(74) Davies Collison Cave

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(11) AU-A-2008298603
(21) 2008298603 **(22)** 12.09.2008
(54) Rationally designed, synthetic antibody libraries and uses therefor
(51) Int. Cl.
C07K 16/00 (2006.01)
C12N 15/13 (2006.01)
(87) WO2009/036379
(31) 60/993,785 **(32)** 14.09.07 **(33)** US
(43) 19.03.2009
(72) Feldhaus, Michael; Vasquez, Maximiliano; Wittrup, K. Dane; Gerngross, Tillman U.
(74) FB Rice & Co

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(21) 2008281301 **(22)** 21.07.2008
(54) Method for converting thermal energy at a low temperature into thermal energy at a relatively high temperature by means of mechanical energy, and vice versa
(51) Int. Cl.
F25B 3/00 (2006.01)
(87) WO2009/015402
(31) A 1203/2007 **(32)** 31.07.07 **(33)** AT
(43) 05.02.2009
(72) Adler, Bernhard
(74) Davies Collison Cave

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(71) AGA Medical Corporation
(11) AU-A-2008305439
(21) 2008305439 **(22)** 20.08.2008
(54) Braided vascular devices having no end clamps
(51) Int. Cl.
A61B 17/08 (2006.01)
(87) WO2009/042317
(31) 11/861,954 **(32)** 26.09.07 **(33)** US
(43) 02.04.2009
(72) Adams, Daniel O.; Pignato, Paul
(74) Griffith Hack

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(71) Aker Biomarine ASA
(11) AU-A-2008291978
(21) 2008291978 **(22)** 29.08.2008
(54) A new method for making krill meal
(51) Int. Cl.
A23J 1/04 (2006.01)
A23J 7/00 (2006.01)
A23K 1/10 (2006.01)
A23K 1/18 (2006.01)
A23L 1/30 (2006.01)
A61K 35/60 (2006.01)
C07F 9/10 (2006.01)
C11B 1/10 (2006.01)
(87) WO2009/027692
(31) 60/968,765 **(32)** 29.08.07 **(33)** US
(43) 05.03.2009
(72) Oistein, Hostmark; Snorre, Tilseth
(74) Spruson & Ferguson

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(71) Aktiebolaget Electrolux
(11) AU-A-2008295643
(21) 2008295643 **(22)** 28.08.2008
(54) Vacuum cleaner
(51) Int. Cl.
A47L 9/20 (2006.01)
A47L 9/16 (2006.01)
(87) WO2009/031961
(31) 60/970,712 **(32)** 07.09.07 **(33)** SE
0702005-0 07.09.07 SE
(43) 12.03.2009
(72) Miefalk, Hakan; Jonsson, Stefan; Beskow, Jonas; Haegermarck, Anders
(74) Halfords IP

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(21) 2008280128 **(22)** 24.07.2008
(54) Adhesion and cohesion modifiers for asphalt
(51) Int. Cl.
C08L 95/00 (2006.01)
E01C 7/00 (2006.01)
(87) WO2009/013328
(31) 07114675.7 **(32)** 21.08.07 **(33)** EP
60/951,995 26.07.07 US
(43) 29.01.2009
(72) Logaraj, Sundaram; Naidoo, Premnathan; James, Alan Duncan
(74) Spruson & Ferguson

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(21) 2008314208 **(22)** 08.08.2008
(54) An ear tag for marking an animal and for sampling tissue from said animal
(51) Int. Cl.
A01K 11/00 (2006.01)
(87) WO2009/049706
(31) 07301479.7 **(32)** 18.10.07 **(33)** EP
(43) 23.04.2009
(72) Gaschet, Jerome; Decaluwe, Johan
(74) Cotters Patent and Trade Mark Attorneys

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(11) AU-A-2008296905
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(54) A multilayer pharmaceutical composition comprising an antagonist in a first layer and an agonist in a second layer
(51) Int. Cl.
A61K 9/20 (2006.01)
A61K 31/135 (2006.01)
A61K 31/485 (2006.01)
(87) WO2009/032270
(31) 60/967,365 **(32)** 04.09.07 **(33)** US
61/007,941 17.12.07 US
(43) 12.03.2009
(72) Liang, Alfred; Jones, James; Stauffer, Joseph
(74) PIZZEYS

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(21) 2008294874 **(22)** 27.08.2008
(54) An agreement method and system to consent to a prorated value of a coupon of an interline E-ticket
(51) Int. Cl.
G06Q 40/00 (2006.01)
(87) WO2009/030623
(31) 11/849,438 **(32)** 04.09.07 **(33)** US
(43) 12.03.2009
(72) Sorokin, Konstantin; Raufaste, Nathalie
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(21) 2008294875 **(22)** 27.08.2008
(54) Revenue monitoring method and system, in particular for airline companies
(51) Int. Cl.
G06Q 30/00 (2006.01)
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(31) 11/849,432 **(32)** 04.09.07 **(33)** US
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(74) Callinans

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(11) AU-A-2008284151
(21) 2008284151 **(22)** 28.07.2008
(54) Adjustable battery charger for UPS
(51) Int. Cl.
H02J 9/06 (2006.01)
(87) WO2009/020788
(31) 11/833,600 **(32)** 03.08.07 **(33)** US
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(72) Petrovic, Luka; Masciarelli, Francis; Beg, Mirza Akmal
(74) Cullens Patent and Trade Mark Attorneys

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(11) AU-A-2008298904
(21) 2008298904 **(22)** 11.09.2008
(54) Homogeneous antibody populations
(51) Int. Cl.
C07K 16/00 (2006.01)
A61K 39/395 (2006.01)
C07K 16/28 (2006.01)
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(31) 60/972,688 **(32)** 14.09.07 **(33)** US
(43) 19.03.2009
(72) Wypych, Jette; Guo, Amy; Allen, Martin; Ricci, Margaret Speed; Sun, Jeonghoon; Bondarenko, Pavel; Shen, Wenyan; Dillon, Tom; Balland, Alain; Vezina, Chris
(74) Shelston IP

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(11) AU-A-2008286031
(21) 2008286031 **(22)** 18.07.2008
(54) Process for producing ammonia synthesis gas
(51) Int. Cl.
C01B 3/02 (2006.01)
C01B 3/38 (2006.01)
C01B 3/48 (2006.01)
C01C 1/04 (2006.01)
(87) WO2009/018913
(31) 07015647.6 **(32)** 08.08.07 **(33)** EP
(43) 12.02.2009
(72) Badano, Marco; Skinner, Geoffrey Frederick; Filippi, Ermanno
(74) Intellepro

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(11) AU-A-2008281332
(21) 2008281332 **(22)** 01.08.2008
(54) Liquid diverter
(51) Int. Cl.
E03B 3/02 (2006.01)
E04D 13/08 (2006.01)
(87) WO2009/015440
(31) 2007904161 **(32)** 02.08.07 **(33)** AU
(43) 05.02.2009
(72) Boon, Dennis Michael
(74) Davies Collison Cave

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(11) AU-A-2008291873
(21) 2008291873 **(22)** 29.08.2008
(54) Non-aqueous pharmaceutical compositions
(51) Int. Cl.
A61K 9/00 (2006.01)
A61K 9/08 (2006.01)
A61K 31/55 (2006.01)
A61K 31/5517 (2006.01)
A61K 47/10 (2006.01)
A61K 47/14 (2006.01)
A61K 47/22 (2006.01)
(87) WO2009/027697
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(21) 2008305294 **(22)** 15.09.2008
(54) Pyridin-2 -yl-amino-i, 2, 4 -thiadiazole derivatives as glucokinase activators for the treatment of diabetes mellitus
(51) Int. Cl.
A61K 31/433 (2006.01)
A61P 3/10 (2006.01)
C07D 417/12 (2006.01)
C07D 417/14 (2006.01)
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(31) 60/974,225 **(32)** 21.09.07 **(33)** US
(43) 02.04.2009
(72) Boyd, Steven Armen; Wallace, Eli M.; Fell, Jay Bradford; Gunawardana, Indrani W.; Hinklin, Ronald Jay; Aicher, Thomas Daniel; Fischer, John P.; Turner, Timothy M.; Singh, Ajay; Chicarelli, Mark Joseph; Condroski, Kevin Ronald
(74) Shelston IP

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(71) Artus, R.
(11) AU-A-2008327506
(21) 2008327506 **(22)** 18.07.2008
(54) Method and system for encryption of data
(51) Int. Cl.
H04L 9/00 (2006.01)
(87) WO2009/066313
(31) 1456/MUM/2007 **(32)** 31.07.07 **(33)** IN
(43) 28.05.2009
(72) Artus, Raymonde Gene Clifford
(74) Phillips Ormonde Fitzpatrick

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(21) 2008299721 **(22)** 12.09.2008
(54) Phthalazinone derivatives
(51) Int. Cl.
C07D 403/10 (2006.01)
A61K 31/502 (2006.01)
A61P 35/00 (2006.01)
(87) WO2009/034326
(31) 60/972,384 **(32)** 14.09.07 **(33)** US
61/032,642 29.02.08 US
(43) 19.03.2009
(72) Menear, Keith Allan; Javaid, Muhammad Hashim; Martin, Niall Morrison Barr
(74) Shelston IP

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(11) AU-A-2008293452
(21) 2008293452 **(22)** 28.08.2008
(54) Disposable dental handpiece
(51) Int. Cl.
A61C 1/14 (2006.01)
(87) WO2009/029725
(31) 60/969,094 **(32)** 30.08.07 **(33)** US
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(74) Phillips Ormonde Fitzpatrick

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(54) Method and apparatus for maintaining a uniform temperature in a refrigeration system
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F25D 17/08 (2006.01)
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(31) 11/891,692 **(32)** 13.08.07 **(33)** US
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(72) Oswald, Ian D.
(74) PIZZEYS

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(21) 2008299666 **(22)** 29.08.2008
(54) Real time priority based scheduling for radar tasks
(51) Int. Cl.
G06F 9/48 (2006.01)
G01S 13/02 (2006.01)
G01S 13/72 (2006.01)
(87) WO2009/034368
(31) 0717973.2 **(32)** 14.09.07 **(33)** GB
07270051.1 14.09.07 EP
(43) 19.03.2009
(72) Wigmore, Charles Christopher Ian; Birch, Paul; Stafford, William Kenneth
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(11) AU-A-2008299667
(21) 2008299667 **(22)** 29.08.2008
(54) Urgency based scheduling
(51) Int. Cl.
G01S 13/72 (2006.01)
G01S 13/02 (2006.01)
G06F 9/48 (2006.01)
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(72) Finch, Derek Geoffrey
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(11) AU-A-2008299140
(21) 2008299140 **(22)** 05.09.2008
(54) Method and apparatus for multi-positioning a sleeve
(51) Int. Cl.
E21B 34/14 (2006.01)
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(74) Freehills Patent & Trade Mark Attorneys

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(21) 2008299119 **(22)** 09.09.2008
(54) Compact optics for concentration, aggregation and illumination of light energy
(51) Int. Cl.
F24J 2/06 (2006.01)
H01L 31/052 (2006.01)
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(11) AU-A-2008278642
(21) 2008278642 **(22)** 21.07.2008
(54) Motion detection system and method
(51) Int. Cl.
G01B 9/02 (2006.01)
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(31) 184868 **(32)** 26.07.07 **(33)** IL
(43) 29.01.2009
(72) Garcia, Javier; Zalevsky, Zeev
(74) Collison & Co

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(71) BASF SE
(11) AU-A-2008281829
(21) 2008281829 **(22)** 25.07.2008
(54) Polymer networks comprising active ingredients, process for their production, and their use
(51) Int. Cl.
A01N 25/10 (2006.01)
A01N 25/18 (2006.01)
A61L 9/04 (2006.01)
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(43) 05.02.2009
(72) Bullock, James; Schmidt, Hans-Werner; Qureshi, Mohammed Shoaib; Ranft, Meik; Lafuente Cerda, Oscar; Giesa, Reiner; Leininger, Hartmut; Terrenoire, Alexandre
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(71) BASF SE
(11) AU-A-2008285686
(21) 2008285686 **(22)** 01.08.2008
(54) Associative thickener dispersion
(51) Int. Cl.
C08F 220/06 (2006.01)
C08F 220/10 (2006.01)
C08F 220/18 (2006.01)
C09D 7/00 (2006.01)
(87) WO2009/019225
(31) 08159645.4 **(32)** 03.07.08 **(33)** EP
08150202.3 11.01.08 EP
07113807.7 03.08.07 EP
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(74) Griffith Hack

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(11) AU-A-2008292235
(21) 2008292235 **(22)** 26.08.2008
(54) Stabilization of cosmetic compositions
(51) Int. Cl.
A61K 8/37 (2006.01)
A61K 8/49 (2006.01)
A61Q 17/04 (2006.01)
(87) WO2009/027390
(31) 08151592.6 **(32)** 19.02.08 **(33)** EP
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(72) Herzog, Bernd; Acker, Stephanie; Quass, Katja
(74) Watermark Patent & Trademark Attorneys

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(71) BASF SE
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(21) 2008292238 **(22)** 26.08.2008
(54) Pyrazole compounds for controlling invertebrate pests
(51) Int. Cl.
A01N 43/56 (2006.01)
A01N 43/707 (2006.01)
A01N 43/74 (2006.01)
A01N 47/18 (2006.01)
A01P 7/00 (2006.01)
C07D 419/12 (2006.01)
C07D 419/14 (2006.01)
(87) WO2009/027393
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(74) Watermark Patent & Trademark Attorneys

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(71) BASF SE
(11) AU-A-2008294826
(21) 2008294826 **(22)** 01.09.2008
(54) Processing rich ores using magnetic particles
(51) Int. Cl.
B03C 1/015 (2006.01)
(87) WO2009/030669
(31) 07115542.8 **(32)** 03.09.07 **(33)** EP
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(72) Mronga, Norbert; Klopsch, Rainer; Servay, Thomas; Hibst, Hartmut; Domke, Imme; Michailovski, Alexej
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(71) BASF SE
(11) AU-A-2008309828
(21) 2008309828 **(22)** 22.08.2008
(54) Co-crystals of pyrimethanil and dithianon
(51) Int. Cl.
A01N 43/32 (2006.01)
A01N 43/54 (2006.01)
C07D 239/42 (2006.01)
C07D 339/08 (2006.01)
(87) WO2009/047043
(31) 07115950.3 **(32)** 07.09.07 **(33)** EP
(43) 16.04.2009
(72) Vogel, Ralf; Saxell, Heidi Emilia; Sowa, Christian
(74) Watermark Patent & Trademark Attorneys

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(11) AU-A-2008294404
(21) 2008294404 **(22)** 04.09.2008
(54) Reciprocating piston cylinder head cover having an integrated fluid exchange rotary disc valve
(51) Int. Cl.
F04B 39/10 (2006.01)
F04B 39/12 (2006.01)
(87) WO2009/031125
(31) 60/970,830 **(32)** 07.09.07 **(33)** US
(43) 12.03.2009
(72) Bastos Ribeiro, Renato
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(11) AU-A-2008297527
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(54) Plants which synthesize increased amounts of glucosaminglycans
(51) Int. Cl.
C12N 15/82 (2006.01)
(87) WO2009/033752
(31) 07116174.9 **(32)** 12.09.07 **(33)** EP
60/993,575 13.09.07 US
(43) 19.03.2009
(72) Frohberg, Claus; Essigmann, Bernd
(74) Griffith Hack

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(71) Bayer CropScience LP
(11) AU-A-2008301951
(21) 2008301951 **(22)** 26.08.2008
(54) Controlled release insecticidal formulations
(51) Int. Cl.
A01N 25/04 (2006.01)
A01M 1/00 (2006.01)
A01N 25/12 (2006.01)
A01N 51/00 (2006.01)
A01P 7/04 (2006.01)
(87) WO2009/038633
(31) 60/994,559 **(32)** 20.09.07 **(33)** US
(43) 26.03.2009
(72) James, Brian Ray; Fish, James Daniel; Royalty, Reed Nathan
(74) Davies Collison Cave

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(54) Security system using encoded image with puzzled image
(51) Int. Cl.
G06K 19/06 (2006.01)
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(31) 10-2007-0076206 **(32)** 30.07.07 **(33)** KR
(43) 05.02.2009
(72) Beak, Gy Young
(74) Wrays

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(11) AU-A-2008285116
(21) 2008285116 **(22)** 27.07.2008
(54) Inflatable automotive traction recovery device
(51) Int. Cl.
E01B 23/00 (2006.01)
(87) WO2009/019682
(31) 11/834,000 **(32)** 05.08.07 **(33)** US
(43) 12.02.2009
(72) Hermann, Dan; Benjamin, Eyal
(74) Wallington-Dummer

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(71) Biggs, P.
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(21) 2009253747 **(22)** 29.05.2009
(54) Electrical power generator
(51) Int. Cl.
H02K 1/06 (2006.01)
F03D 9/00 (2006.01)
F03G 6/00 (2006.01)
F24F 6/00 (2006.01)
H02K 1/12 (2006.01)
H02K 1/27 (2006.01)
H02K 7/18 (2006.01)
(87) WO2009/143580
(31) 2008902721 **(32)** 30.05.08 **(33)** AU
(43) 03.12.2009
(72) Biggs, Peter
(74) Peter Briggs

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(11) AU-A-2008294535
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(54) BIS-aromatic compounds useful in the treatment of inflammation
(51) Int. Cl.
C07C 237/40 (2006.01)
A61K 31/166 (2006.01)
A61K 31/194 (2006.01)
C07C 59/90 (2006.01)
C07C 65/40 (2006.01)
C07C 233/75 (2006.01)
(87) WO2009/030887
(31) 60/935,849 **(32)** 04.09.07 **(33)** US
(43) 12.03.2009
(72) Nilsson, Peter; Pelcman, Benjamin; Katkevics, Martins
(74) Spruson & Ferguson

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(21) 2007358605 **(22)** 04.09.2007
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(51) Int. Cl.
C07K 17/08 (2006.01)
A61K 47/48 (2006.01)
A61P 11/06 (2006.01)
A61P 19/02 (2006.01)
A61P 29/00 (2006.01)
A61P 31/12 (2006.01)
A61P 35/00 (2006.01)
A61K 38/21 (2006.01)
C07K 14/56 (2006.01)
(87) WO2009/030066
(43) 12.03.2009
(72) Luo, Shihong; Yin, Fenghong; Zhuang, Lu; Xu, Tianle; Zhang, Yong; Sun, Li; Xiao, Qingjiang; Wang, Tiebing; Liu, Min; Zhou, Weidong
(74) F B Rice & Co

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(71) Biotron Limited
(11) AU-A-2008286240
(21) 2008286240 **(22)** 04.08.2008
(54) Hepatitis C antiviral compositions and methods
(51) Int. Cl.
A61K 31/155 (2006.01)
A61K 31/167 (2006.01)
A61K 31/18 (2006.01)
A61K 31/341 (2006.01)
A61K 31/36 (2006.01)
A61K 31/381 (2006.01)
A61K 31/415 (2006.01)
A61K 31/435 (2006.01)
A61P 31/14 (2006.01)
(87) WO2009/018609
(31) 2007904154 **(32)** 03.08.07 **(33)** AU
(43) 12.02.2009
(72) Miller, Michelle; Luscombe, Carolyn Anne; Ewart, Gary Dinneen
(74) Shelston IP

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(71) BLUESCOPE STEEL LIMITED
(11) AU-A-2008291624
(21) 2008291624 **(22)** 29.08.2008
(54) A cladding sheet
(51) Int. Cl.
E04D 3/363 (2006.01)
B21B 1/22 (2006.01)
E04C 2/08 (2006.01)
(87) WO2009/026655
(31) 2007904731 **(32)** 31.08.07 **(33)** AU
(43) 05.03.2009
(72) Seccombe, Campbell John; Li, Tang
(74) Griffith Hack

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(21) 2008287620 **(22)** 14.08.2008
(54) Treatment apparatus
(51) Int. Cl.
A61D 7/00 (2006.01)
B65D 30/22 (2006.01)
B65D 81/32 (2006.01)
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(31) 560646 **(32)** 14.08.07 **(33)** NZ
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(51) Int. Cl.
C05F 11/00 (2006.01)
C05F 17/00 (2006.01)
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(51) Int. Cl.
B65G 15/26 (2006.01)
B65G 41/00 (2006.01)
E21F 13/06 (2006.01)
(87) WO2009/073923
(31) 2007906982 **(32)** 20.12.07 **(33)** AU
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2008906070 24.11.08 AU
(43) 18.06.2009
(72) Bremhorst, John
(74) Cullens Patent and Trade Mark Attorneys

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(71) Burcon Nutrascience (MB) Corp.
(11) AU-A-2008286176
(21) 2008286176 **(22)** 01.08.2008
(54) Production of 2S canola protein involving ion exchange
(51) Int. Cl.
C07K 14/415 (2006.01)
C07K 1/14 (2006.01)
C07K 1/18 (2006.01)
C11D 1/00 (2006.01)
(87) WO2009/018660
(31) 60/935,281 **(32)** 03.08.07 **(33)** US
(43) 12.02.2009
(72) Segall, Kevin I.; Schweizer, Martin
(74) Phillips Ormonde Fitzpatrick

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(71) Cabot Corporation
(11) AU-A-2008296995
(21) 2008296995 **(22)** 28.08.2008
(54) An elastomer composite and method for producing it
(51) Int. Cl.
C08J 3/22 (2006.01)
C08C 1/14 (2006.01)
C08J 3/215 (2006.01)
(87) WO2009/032178
(31) 60/966,853 **(32)** 30.08.07 **(33)** US
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(72) Zhang, Xuan; Morris, Michael D.
(74) Watermark Patent & Trademark Attorneys

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(54) Low energy consumption climate control system and method for the realization of high heat-sound insulation build-

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(51) Int. Cl.
F24F 5/00 (2006.01)
E04B 2/88 (2006.01)
F24D 3/14 (2006.01)
F24D 5/00 (2006.01)
(87) WO2009/016163
(31) PCT/ **(32)** 01.08.07 **(33)** IT
IT2007/000553
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(72) Plini, Paolo
(74) FB Rice & Co

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(11) AU-A-2008299242
(21) 2008299242 **(22)** 22.08.2008
(54) Shopping cart accountability using coupon incentives
(51) Int. Cl.
G06Q 30/00 (2006.01)
(87) WO2009/035840
(31) 11/855,026 **(32)** 13.09.07 **(33)** US
(43) 19.03.2009
(72) Irish, James M.; French, John A.
(74) Griffith Hack

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(71) Centre National D'Etudes Spatiales (C.N.E.S.)
(11) AU-A-2008324081
(21) 2008324081 **(22)** 28.08.2008
(54) Instrument for acquiring and broadcasting earth observation images with high space and time resolution
(51) Int. Cl.
B64G 1/10 (2006.01)
G01C 11/02 (2006.01)
H04B 7/00 (2006.01)
H04L 27/26 (2006.01)
(87) WO2009/060139
(31) 0706117 **(32)** 31.08.07 **(33)** FR
(43) 14.05.2009
(72) Antikidis, Jean-Pierre
(74) FB Rice & Co

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(11) AU-A-2008290410
(21) 2008290410 **(22)** 07.08.2008
(54) Method and device for determining the ratio between the contents of chlorophyll and of a chromophore compound in a vegetable tissue without independently measuring said contents
(51) Int. Cl.
G01N 21/64 (2006.01)
(87) WO2009/024720
(31) 0757056 **(32)** 13.08.07 **(33)** FR
(43) 26.02.2009
(72) Goulas, Yves; Latouche, Gwendal; Cerovic, Zoran; Moise, Nicolae
(74) Davies Collison Cave

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(11) AU-A-2007358638
(21) 2007358638 **(22)** 10.12.2007
(54) A temporary roadway element
(51) Int. Cl.
E01C 9/08 (2006.01)
E01C 5/18 (2006.01)
E01D 15/12 (2006.01)
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(31) 11/896,784 **(32)** 06.09.07 **(33)** US
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(74) Davies Collison Cave

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(11) AU-A-2008282497
(21) 2008282497 **(22)** 25.07.2008
(54) Methods and compositions for passivating heat exchanger systems
(51) Int. Cl.
C23C 22/66 (2006.01)
C09K 5/20 (2006.01)
C23C 22/68 (2006.01)
C23F 11/18 (2006.01)
F28F 19/02 (2006.01)
(87) WO2009/018123
(31) 60/953,626 **(32)** 02.08.07 **(33)** US
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(72) Lievens, Serge S.; Hunsicker, Douglas P.; Pellet, Regis J.; Claeys, Sandra G.
(74) Davies Collison Cave

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(21) 2008298533 **(22)** 12.09.2008
(54) Methods and systems for generating desktop environments providing integrated access to remote and local resources
(51) Int. Cl.
G06F 9/40 (2006.01)
G06F 3/048 (2006.01)
(87) WO2009/036400
(31) 61/054,402 **(32)** 19.05.08 **(33)** US
60/971,688 12.09.07 US
(43) 19.03.2009
(72) Fleck, Chirs; Treder, Terry; Mazzaferri, Richard James; Roychoudhry, Anil; Marano, Adam
(74) Pizzeys

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(71) Clinisafe Ltd
(11) AU-A-2008281571
(21) 2008281571 **(22)** 04.08.2008
(54) Screening method
(51) Int. Cl.
G06F 19/00 (2006.01)
(87) WO2009/016391
(31) 11/833,192 **(32)** 02.08.07 **(33)** US
(43) 05.02.2009
(72) Dale, Mark
(74) Freehills Patent & Trade Mark Attorneys

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(11) AU-A-2008287506
(21) 2008287506 **(22)** 04.08.2008
(54) Threaded closure with internal ribs
(51) Int. Cl.
B65D 41/00 (2006.01)
(87) WO2009/023102
(31) 11/891,907 **(32)** 14.08.07 **(33)** US
(43) 19.02.2009
(72) Suriol, Jordi Lluch
(74) FB Rice & Co

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(71) Colgate-Palmolive Company
(11) AU-A-2008296761
(21) 2008296761 **(22)** 18.07.2008
(54) Dentifrice container with oral care implement holder
(51) Int. Cl.
A45D 44/18 (2006.01)
A46B 15/00 (2006.01)
A46B 17/02 (2006.01)
A46B 17/04 (2006.01)
(87) WO2009/032410
(31) 11/849,613 **(32)** 04.09.07 **(33)** US
(43) 12.03.2009
(72) Jimenez, Eduardo J.
(74) FB Rice & Co

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(71) Commonwealth Scientific and Industrial Research Organisation ; Australian Poultry CRC Pty Ltd
(11) AU-A-2008301229
(21) 2008301229 **(22)** 19.09.2008
(54) Novel avian cytokines and genetic sequences encoding same
(51) Int. Cl.
C07K 14/555 (2006.01)
A61K 38/21 (2006.01)
A61P 31/12 (2006.01)
A61P 31/16 (2006.01)
C07K 16/18 (2006.01)
C07K 16/24 (2006.01)
(87) WO2009/036510
(31) 60/994,567 **(32)** 20.09.07 **(33)** US
(43) 26.03.2009
(72) Bean, Andrew Gerard D.; Lowenthal, John William; Karpala, Adam Joseph
(74) Davies Collison Cave

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(71) COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION
(11) AU-A-2008288711
(21) 2008288711 **(22)** 22.08.2008
(54) A system, garment and method
(51) Int. Cl.
A61B 5/11 (2006.01)
(87) WO2009/023937
(31) 2007904520 **(32)** 22.08.07 **(33)** AU
(43) 26.02.2009
(72) D'Arcy, Patrick Brendan; Stannard, Warren Bradley; Cranston, Robin William; Mestrovic, Michael Anthony; Petersen, Pamela Margaret
(74) Griffith Hack

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(71) COMPACT GTL PLC
(11) AU-A-2008306591
(21) 2008306591 **(22)** 01.10.2008
(54) Gas-to-liquid plant using parallel units
(51) Int. Cl.
B01J 8/02 (2006.01)
B01J 8/22 (2006.01)
C10G 2/00 (2006.01)
B01J 8/04 (2006.01)
(87) WO2009/044198
(31) 0814532.8 **(32)** 08.08.08 **(33)** GB
0719163.8 02.10.07 GB
0719167.9 02.10.07 GB

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(74) Griffith Hack

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(11) AU-A-2008296361
(21) 2008296361 **(22)** 03.09.2008
(54) Polypeptides and polynucleotides, and uses thereof as a drug target for producing drugs and biologics
(51) Int. Cl.
A61K 39/00 (2006.01)
(87) WO2009/032845
(31) 60/969,769 **(32)** 04.09.07 **(33)** US
60/969,806 04.09.07 US
60/769,788 04.09.07 US
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(43) 12.03.2009
(72) Montia, Eve; Novik, Amit; Levy, Ofer; Rotman, Galit; Levine, Zurit; Toporik, Amir; Rosenberg, Avi; Bubis, Marina; Milo, Dalit; Nemzer, Sergey; Beiman, Merav; Cohen-Dayag, Anat; Koifman, Cynthia; Sameach-Greenwald, Shirley; Dassa, Liat; Walach, Shira; Kinar, Yaron; Pergam, Tania
(74) Shelston IP

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(71) Compumedics Medical Innovation Pty Ltd
(11) AU-A-2008307127
(21) 2008307127 **(22)** 30.09.2008
(54) Electrocardiogram derived apnoea/hypopnea index
(51) Int. Cl.
A61B 5/0205 (2006.01)
(87) WO2009/043087
(31) 2007905367 **(32)** 02.10.07 **(33)** AU
(43) 09.04.2009
(72) Zilberg, Eugene; Nilsen, Kris
(74) Compumedics

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(11) AU-A-2008296978
(21) 2008296978 **(22)** 28.08.2008
(54) System and method for active power load management
(51) Int. Cl.
G06Q 50/00 (2006.01)
(87) WO2009/032161
(31) 11/895,909 **(32)** 28.08.07 **(33)** US
(43) 12.03.2009
(72) Forbes Jr., Joseph W.; Webb, Joel L.
(74) Spruson & Ferguson

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(11) AU-A-2008295540
(21) 2008295540 **(22)** 22.08.2008
(54) Fiber optic terminal assembly
(51) Int. Cl.
G02B 6/44 (2006.01)
(87) WO2009/032086
(31) 11/975,440 **(32)** 19.10.07 **(33)** US
60/967,559 05.09.07 US
(43) 12.03.2009
(72) Rasmussen, Michael H.; Cox, Terry D.; Strause, Kevin L.; Rodriguez, Diana
(74) Davies Collison Cave

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(11) AU-A-2008291584
(21) 2008291584 **(22)** 29.08.2008
(54) Energy-efficient compact device for dispensing and accumulating bank notes
(51) Int. Cl.
G07D 11/00 (2006.01)
G07D 7/00 (2006.01)
(87) WO2009/026702
(31) 2,599,775 **(32)** 30.08.07 **(33)** CA
(43) 05.03.2009
(72) Afanasov, Sergii; Bazhenov, Mykhaylo; Shvarts, Volodymyr
(74) Smoorenburg Pini Patent & Trade Mark Attorneys

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(11) AU-A-2008292913
(21) 2008292913 **(22)** 29.08.2008
(54) Compositions and methods of using proislet peptides and analogs thereof
(51) Int. Cl.
C07K 14/47 (2006.01)
A61K 38/22 (2006.01)
A61K 38/26 (2006.01)
(87) WO2009/029847
(31) 61/031,479 **(32)** 26.02.08 **(33)** US
60/969,019 30.08.07 US
60/991,964 03.12.07 US
60/979,526 12.10.07 US
(43) 05.03.2009
(72) Levetan, Claresa S.; Garsky, Victor M.
(74) Pizzeys

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(71) Cytopathfinder, Inc.
(11) AU-A-2008292613
(21) 2008292613 **(22)** 22.08.2008
(54) Transfection device utilizing sericin
(51) Int. Cl.
C12M 1/00 (2006.01)
C12N 15/00 (2006.01)
(87) WO2009/028421
(31) 2007-218733 **(32)** 24.08.07 **(33)** JP
(43) 05.03.2009
(72) Fujita, Yoshiji; Yoshikawa, Tomohiro
(74) Pizzeys

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(11) AU-A-2008304627
(21) 2008304627 **(22)** 22.09.2008
(54) Microfluidic apparatus for manipulating, imaging and analyzing cells
(51) Int. Cl.
B01L 3/00 (2006.01)
G01N 1/40 (2006.01)
(87) WO2009/042550
(31) 60/975,070 **(32)** 25.09.07 **(33)** US
(43) 02.04.2009
(72) Kaufman, Howard
(74) Davies Collison Cave

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(71) Cytyc Corporation
(11) AU-A-2008307261
(21) 2008307261 **(22)** 12.09.2008
(54) Methods and systems for processing biological specimens utilizing multiple wavelengths
(51) Int. Cl.
G06K 9/00 (2006.01)
G06K 9/62 (2006.01)
(87) WO2009/045699
(31) 11/864,744 **(32)** 28.09.07 **(33)** US
(43) 09.04.2009
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(74) Davies Collison Cave

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(11) AU-A-2008293037
(21) 2008293037 **(22)** 18.08.2008
(54) Humidity controller
(51) Int. Cl.
F24F 3/14 (2006.01)
(87) WO2009/028148
(31) 2007-221091 **(32)** 28.08.07 **(33)** JP
(43) 05.03.2009
(72) Narikawa, Yoshinori
(74) FB Rice & Co

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(11) AU-A-2008298279
(21) 2008298279 **(22)** 08.09.2008
(54) Duplex pipe fitting, exclusive tool for the duplex pipe fitting, refrigeration system employing the duplex pipe fitting, and separation type air conditioner
(51) Int. Cl.
F16L 19/08 (2006.01)
B25B 13/50 (2006.01)
F25B 41/00 (2006.01)
(87) WO2009/034948
(31) 2007-235990 **(32)** 11.09.07 **(33)** JP
2008-211013 19.08.08 JP
(43) 19.03.2009
(72) Nakata, Haruo
(74) FB Rice & Co

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(11) AU-A-2008321997
(21) 2008321997 **(22)** 04.11.2008
(54) Indoor unit for air conditioner
(51) Int. Cl.
F24F 13/22 (2006.01)
F24F 13/30 (2006.01)
(87) WO2009/063770
(31) 2008-245053 **(32)** 25.09.08 **(33)** JP
2007-292765 12.11.07 JP
(43) 22.05.2009
(72) Ashida, Keishi; Nishiguchi, Noriki; Yasuo, Kouichi
(74) FB Rice & Co

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(11) AU-A-2008296345
(21) 2008296345 **(22)** 03.09.2008
(54) Fertilizer opener/closer arrangement for an agricultural machine
(51) Int. Cl.
A01B 49/06 (2006.01)
(87) WO2009/032829
(31) 11/849,657 **(32)** 04.09.07 **(33)** US

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(74) Davies Collison Cave

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(71) Delmar Systems, Inc.
(11) AU-A-2008296403
(21) 2008296403 **(22)** 29.08.2008
(54) Anchors for mooring of objects in a marine environment
(51) Int. Cl.
B63B 21/32 (2006.01)
(87) WO2009/032799
(31) 60/970,017 **(32)** 05.09.07 **(33)** US
(43) 12.03.2009
(72) Zimmerman, Evan
(74) Shelston IP

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(11) AU-A-2008293101
(21) 2008293101 **(22)** 21.08.2008
(54) Artificial turf and method and device for forming thereof
(51) Int. Cl.
E01C 13/08 (2006.01)
D03D 39/16 (2006.01)
(87) WO2009/028931
(31) NL1034291 **(32)** 27.08.07 **(33)** NL
(43) 05.03.2009
(72) De Vries, Hugo
(74) Fisher Adams Kelly

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(71) DexCom, Inc.
(11) AU-A-2008299766
(21) 2008299766 **(22)** 25.07.2008
(54) Transcutaneous analyte sensor
(51) Int. Cl.
C25B 13/08 (2006.01)
(87) WO2009/035773
(31) 11/855,101 **(32)** 13.09.07 **(33)** US
(43) 19.03.2009
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(74) FB Rice & Co

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(71) Digital Fountain, Inc.
(11) AU-A-2008298602
(21) 2008298602 **(22)** 12.09.2008
(54) Generating and communicating source identification information to enable reliable communications
(51) Int. Cl.
G06F 13/14 (2006.01)
(87) WO2009/036378
(31) 60/971,884 **(32)** 12.09.07 **(33)** US
61/093,277 29.08.08 US
(43) 19.03.2009
(72) Luby, Michael G.; Chen, Steve; Seed, William; Stockhammer, Thomas; Prasad, Manu
(74) Madderns

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(11) AU-A-2008293451
(21) 2008293451 **(22)** 28.08.2008
(54) Lighting system for a vending machine
(51) Int. Cl.
F21V 7/00 (2006.01)
(87) WO2009/029724
(31) 60/966,752 **(32)** 28.08.07 **(33)** US
(43) 05.03.2009
(72) Hudis, Scott B.
(74) Freehills Patent & Trade Mark Attorneys

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(71) DLD ASSOCIATES Limited
(11) AU-A-2008281586
(21) 2008281586 **(22)** 29.07.2008
(54) Method for removing oil from oil-contaminated material
(51) Int. Cl.
B09C 1/02 (2006.01)
B09B 3/00 (2006.01)
E21B 21/06 (2006.01)
(87) WO2009/016406
(31) 0714939.6 **(32)** 01.08.07 **(33)** GB
(43) 05.02.2009
(72) Martin, Andrew
(74) Walsh & Associates

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(71) Dow Pharmaceutical Sciences, Inc.
(11) AU-A-2008296903
(21) 2008296903 **(22)** 04.09.2008
(54) Azithromycin for treatment of skin disorders
(51) Int. Cl.
A61K 31/7052 (2006.01)
(87) WO2009/032268
(31) 60/967,504 **(32)** 05.09.07 **(33)** US
(43) 12.03.2009
(72) Calvarese, Barry; Osborne, David Wade; Dow, Gordon Jay; Chaudhuri, Bhaskar
(74) Shelston IP

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(11) AU-A-2008297038
(21) 2008297038 **(22)** 10.09.2008
(54) Face and mouth muscle stimulator
(51) Int. Cl.
A61C 7/08 (2006.01)
(87) WO2009/034205
(31) P 200702446 **(32)** 14.09.07 **(33)** ES
P 200801949 30.06.08 ES
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(43) 19.03.2009
(72) Duran Von Arx, Jose
(74) Callinans

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(71) E.I. DU PONT DE NEMOURS AND COMPANY
(11) AU-A-2008308642
(21) 2008308642 **(22)** 03.10.2008
(54) Electrodepositable composition
(51) Int. Cl.
C09D 5/44 (2006.01)
C08K 3/00 (2006.01)
C08K 5/17 (2006.01)
C09D 123/08 (2006.01)
(87) WO2009/046270
(31) 60/997,822 **(32)** 06.10.07 **(33)** US
(43) 09.04.2009
(72) Gam, Allisa
(74) Houlihan2

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(71) E.I. DU PONT DE NEMOURS AND COMPANY
(11) AU-A-2008308907
(21) 2008308907 **(22)** 30.09.2008
(54) Naphthalene isoxazoline compounds for control of invertebrate pests
(51) Int. Cl.
C07D 261/04 (2006.01)
A01N 43/80 (2006.01)
A61K 31/42 (2006.01)
(87) WO2009/045999
(31) 60/997,504 **(32)** 03.10.07 **(33)** US
(43) 09.04.2009
(72) Xu, Ming; Long, Jeffrey Keith; Selby, Thomas Paul
(74) Houlihan2

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(71) E. I. DU PONT DE NEMOURS AND COMPANY
(11) AU-A-2008311099
(21) 2008311099 **(22)** 03.10.2008
(54) Injection molding of thermoplastic polymethylmethacrylate pellets
(51) Int. Cl.
B29C 45/00 (2006.01)
B29C 45/27 (2006.01)
(87) WO2009/048801
(31) 11/974,285 **(32)** 12.10.07 **(33)** US
(43) 16.04.2009
(72) Koester, Marc; Saunders, William Daniel; Paplham, William Patrick
(74) Houlihan2

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(71) EDSA Micro Corporation
(11) AU-A-2008304386
(21) 2008304386 **(22)** 25.09.2008
(54) Systems and methods for intuitive modeling of complex networks in a digital environment
(51) Int. Cl.
G06F 17/00 (2006.01)
(87) WO2009/042772
(31) 60/975,063 **(32)** 25.09.07 **(33)** US
12/236,030 23.09.08 US
(43) 02.04.2009
(72) Nasle, Adib
(74) Pizzeys

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(71) EDSA Micro Corporation
(11) AU-A-2008304566
(21) 2008304566 **(22)** 23.09.2008
(54) Real-time stability indexing for intelligent energy monitoring and management of electrical power network system
(51) Int. Cl.
G06F 19/00 (2006.01)
(87) WO2009/042581
(31) 60/974,649 **(32)** 24.09.07 **(33)** US
12/121,552 15.05.08 US
(43) 02.04.2009
(72) Nasle, Adib
(74) Pizzeys

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(71) Eggleton, M.
(11) AU-A-2008281589
(21) 2008281589 **(22)** 31.07.2008
(54) Apparatus for generating electricity from marine energy comprising dc generators in series and method thereof

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F03B 13/10 (2006.01)
(87) WO2009/016409
(31) 0714943.8 **(32)** 01.08.07 **(33)** GB
(43) 05.02.2009
(72) Eggleton, Michael
(74) Janet Stead & Associates

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(71) Elicityl
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(21) 2007358188 **(22)** 27.08.2007
(54) Method for increasing the resistance of plants to abiotic stress
(51) Int. Cl.
A01N 43/16 (2006.01)
(87) WO2009/027584
(43) 05.03.2009
(72) Salvador, Pascal; Lasserre, Thomas
(74) Shelston IP

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(71) Emerson Electric Co.
(11) AU-A-2008296855
(21) 2008296855 **(22)** 05.09.2008
(54) Food waste disposer with PWM based control of grinding profile
(51) Int. Cl.
B02C 23/36 (2006.01)
B02C 25/00 (2006.01)
(87) WO2009/032311
(31) 60/967,579 **(32)** 05.09.07 **(33)** US
(43) 12.03.2009
(72) Hirsch, Nicholas J.; Plume, Steven Harry
(74) FB Rice & Co

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(71) Epiphany Biosciences, Inc.
(11) AU-A-2008305666
(21) 2008305666 **(22)** 18.09.2008
(54) Valomaciclovir polymorphs
(51) Int. Cl.
C07D 473/00 (2006.01)
A61K 31/52 (2006.01)
(87) WO2009/042081
(31) 60/994,719 **(32)** 21.09.07 **(33)** US
(43) 02.04.2009
(72) Butke, Gregory P.; O'Neill, Mike H.
(74) FB Rice & Co

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(71) Errcive, Inc.
(11) AU-A-2008284107
(21) 2008284107 **(22)** 31.07.2008
(54) Porous bodies and methods
(51) Int. Cl.
B01D 39/20 (2006.01)
B01D 39/00 (2006.01)
(87) WO2009/020835
(31) 60/963,088 **(32)** 03.08.07 **(33)** US
(43) 12.02.2009
(72) Ramberg, Charles; Dynan, Stephen; Shindle, Jack
(74) Wrays

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(71) Ethicon, Inc.
(11) AU-A-2008303794
(21) 2008303794 **(22)** 26.09.2008
(54) Self-anchoring tissue lifting device and method of manufacturing said device
(51) Int. Cl.
A61B 17/06 (2006.01)
A61F 2/00 (2006.01)
A61B 17/00 (2006.01)
A61B 17/04 (2006.01)
(87) WO2009/040132
(31) 11/904,198 **(32)** 26.09.07 **(33)** US
(43) 02.04.2009
(72) Peters, Burkhard; Schroder, Jens; Landgrebe, Susanne; Schuldt-Hempe, Barbara
(74) Callinans

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(71) EXTENDQUIP, LLC
(11) AU-A-2008284388
(21) 2008284388 **(22)** 17.07.2008
(54) Extendable frame work vehicle
(51) Int. Cl.
B60P 3/34 (2006.01)
B62C 1/06 (2006.01)
B62D 33/08 (2006.01)
(87) WO2009/020509
(31) 11/890,332 **(32)** 06.08.07 **(33)** US
(43) 12.02.2009
(72) Dack, Marcus F.; Bauer, David R.; Racz, Joe A.; Gasal, Justin D.; Buelt, Kenneth; Wierschke, Jeffrey A.; Price, Thomas E.; Osswald, Chris; Osswald, Walter A.; Severns, Alan
(74) Griffith Hack

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(71) EXTENDQUIP, LLC
(11) AU-A-2008284393
(21) 2008284393 **(22)** 17.07.2008
(54) Extendable frame work vehicle
(51) Int. Cl.
B60S 9/02 (2006.01)
(87) WO2009/020514
(31) 11/890,332 **(32)** 06.08.07 **(33)** US
(43) 12.02.2009
(72) Osswald, Walter A.; Osswald, Chris; Bauer, David R.; Racz, Joe A.; Price, Thomas E.; Severns, Alan; Buelt, Kenneth; Wierschke, Jeffrey A.; Gasal, Justin D.; Dack, Marcus F.
(74) Griffith Hack

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(71) FDE Process Systems Limited
(11) AU-A-2008283114
(21) 2008283114 **(22)** 30.07.2008
(54) Improvements in/or relating to a method of treating sludges
(51) Int. Cl.
C02F 1/463 (2006.01)
B01D 21/01 (2006.01)
C02F 9/12 (2006.01)
C02F 11/12 (2006.01)
(87) WO2009/017426
(31) 561695 **(32)** 30.07.07 **(33)** NZ
(43) 05.02.2009
(72) Fernando, Tissa
(74) Acumen Intellectual Property

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(71) FLSmidth A/S
(11) AU-A-2008313822
(21) 2008313822 **(22)** 13.10.2008
(54) Roller mill
(51) Int. Cl.
B02C 15/00 (2006.01)
B02C 15/14 (2006.01)
(87) WO2009/050142
(31) PA 2007 01486 **(32)** 16.10.07 **(33)** DK
(43) 23.04.2009
(72) Larsen, Morten; Nissen, Rasmus Thranberg
(74) Freehills Patent & Trade Mark Attorneys

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(71) FOSBEL INTELLECTUAL LIMITED
(11) AU-A-2008320668
(21) 2008320668 **(22)** 29.10.2008
(54) Repair of heating walls in a refractory furnace
(51) Int. Cl.
F27D 1/16 (2006.01)
C10B 29/06 (2006.01)
(87) WO2009/056843
(31) 151/DEL/2008 **(32)** 18.01.08 **(33)** IN
60/996,104 01.11.07 US
(43) 07.05.2009
(72) Scott, Jerry; Ison, David; Dusel, Martin; Drakulich, Dan
(74) Griffith Hack

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(71) Fraisbon Foods Limited
(11) AU-A-2008287618
(21) 2008287618 **(22)** 12.08.2008
(54) Packaging
(51) Int. Cl.
A47G 29/00 (2006.01)
B65D 25/04 (2006.01)
B65D 25/08 (2006.01)
B65D 81/32 (2006.01)
(87) WO2009/022920
(31) 560656 **(32)** 15.08.07 **(33)** NZ
565894 11.02.08 NZ
565119 15.01.08 NZ
(43) 19.02.2009
(72) Berrysmith, Ashley Francis
(74) A J PARK

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(71) Fresenius Medical Care Holdings, Inc.
(11) AU-A-2008302149
(21) 2008302149 **(22)** 19.09.2008
(54) Dialysis systems and related components
(51) Int. Cl.
A61M 1/14 (2006.01)
(87) WO2009/039357
(31) 60/973,734 **(32)** 19.09.07 **(33)** US
(43) 26.03.2009
(72) Weaver, Colin; Jensen, Melvin D.; Jensen, Lynn; Reihanifam, Mohsen; Crnkovich, Martin Joseph; Lindley, Deloy
(74) Pizzeys

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(71) Fresenius Medical Care Holdings, Inc.
(11) AU-A-2008302306
(21) 2008302306 **(22)** 18.09.2008
(54) Safety vent structure for extracorporeal circuit
(51) Int. Cl.
A61M 1/36 (2006.01)
(87) WO2009/039259
(31) 60/973,730 **(32)** 19.09.07 **(33)** US
(43) 26.03.2009
(72) Jensen, Melvin D.; Crnkovich, Martin Joseph; Kotsos, Michael Emmanuel; Weaver, Colin; Folden, Thomas Irvin
(74) Pizzeys

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(11) AU-A-2008286094
(21) 2008286094 **(22)** 24.07.2008
(54) A system for feeding gas into liquid
(51) Int. Cl.
B01F 3/04 (2006.01)
C02F 3/02 (2006.01)
E03D 1/16 (2006.01)
(87) WO2009/018745
(31) 200710119934.7 **(32)** 03.08.07 **(33)** CN
(43) 12.02.2009
(72) Sheng, Guohua
(74) Griffith Hack

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(71) Frey II, W. ; Danielyan, L. ; Gleiter, C.
(11) AU-A-2008299124
(21) 2008299124 **(22)** 04.09.2008
(54) Methods, pharmaceutical compositions and articles of manufacture for administering therapeutic cells to the animal central nervous system
(51) Int. Cl.
A61K 35/30 (2006.01)
C12N 5/071 (2010.01)
(87) WO2009/035901
(31) 12/109,066 **(32)** 24.04.08 **(33)** US
60/971,284 11.09.07 US
(43) 19.03.2009
(72) Frey II, William H.; Danielyan, Lusine; Gleiter, Christoph H.
(74) Pappas IP

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(71) Gala Industries, Inc.
(11) AU-A-2008296440
(21) 2008296440 **(22)** 28.08.2008
(54) Method and apparatus for enhanced minimal shear molding utilizing extrusional, pelletization, and melt rheological control of pellets and micropellets and molded objects made therefrom
(51) Int. Cl.
C08J 3/20 (2006.01)
B29B 9/00 (2006.01)
B29C 33/02 (2006.01)
B29C 41/04 (2006.01)
B29C 47/12 (2006.01)
C08J 9/34 (2006.01)
C08L 23/00 (2006.01)
(87) WO2009/032745
(31) 11/846,372 **(32)** 28.08.07 **(33)** US
(43) 12.03.2009
(72) Tornow, Matthew Jean; Weaver, Nathan Eugene; Newbury, Shawn David; Wright, Roger Blake
(74) FB Rice & Co

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(71) Galderma Laboratories L.P.
(11) AU-A-2008296948
(21) 2008296948 **(22)** 29.08.2008
(54) Improved brimonidine compositions for treating erythema
(51) Int. Cl.
A61K 31/535 (2006.01)
(87) WO2009/032223
(31) 60/967,191 **(32)** 31.08.07 **(33)** US
(43) 12.03.2009
(72) Powala, Christopher V.; Theobald, Klaus
(74) Davies Collison Cave

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(71) Galenix Innovations
(11) AU-A-2008292085
(21) 2008292085 **(22)** 29.08.2008
(54) Carrier-free orodispersible and/or dispersible solid composition with noticeable effect and method for preparing same
(51) Int. Cl.
A61K 9/20 (2006.01)
(87) WO2009/027521
(31) 60/973,216 **(32)** 18.09.07 **(33)** US
0757295 31.08.07 FR
(43) 05.03.2009
(72) Besse, Laurence; Besse, Jerome; Pournin, Julien
(74) Griffith Hack

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(71) Gekko Systems Pty Ltd
(11) AU-A-2008303049
(21) 2008303049 **(22)** 05.09.2008
(54) Modular ore processor
(51) Int. Cl.
B03B 7/00 (2006.01)
B03B 4/00 (2006.01)
B03B 9/00 (2006.01)
B03D 1/08 (2006.01)
B04C 9/00 (2006.01)
E21C 41/16 (2006.01)
(87) WO2009/039559
(31) 2007905245 **(32)** 26.09.07 **(33)** AU
(43) 02.04.2009
(72) Lewis-Gray, Alexander Hamilton
(74) Morcom Pernat

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(71) General Electric Company
(11) AU-A-2009251226
(21) 2009251226 **(22)** 27.08.2009
(54) Composition, energy storage device, and method
(51) Int. Cl.
H01M 4/00 (2006.01)
(31) 12/330,735 **(32)** 09.12.08 **(33)** US
61/095,380 09.09.08 US
12/330,714 09.12.08 US
12/330,752 09.12.08 US
(43) 25.03.2010
(72) Sundararajan, Guruprasad; Vallance, Michael Alan; Seshadri, Hari Nadathur; Iacovangelo, Charles Dominic; Bogdan, David; Gourishankar, Karthick Vilapakkam
(74) Phillips Ormonde Fitzpatrick

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(71) GENOMATICA, INC.
(11) AU-A-2008287072
(21) 2008287072 **(22)** 06.08.2008
(54) Methods and organisms for the growth-coupled production of 1,4-butanediol
(51) Int. Cl.
C12N 15/52 (2006.01)
C12N 1/00 (2006.01)
C12P 7/18 (2006.01)
(87) WO2009/023493
(31) 11/891,602 **(32)** 10.08.07 **(33)** US
(43) 19.02.2009
(72) Burk, Mark J.; Burgard, Anthony P.; Van Dien, Stephen J.
(74) Griffith Hack

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(71) GENOMATICA, INC.
(11) AU-A-2008307381
(21) 2008307381 **(22)** 08.08.2008
(54) Methods for the synthesis of acrylic acid and derivatives from fumaric acid
(51) Int. Cl.
C07C 51/347 (2006.01)
C07C 57/04 (2006.01)
C07C 67/333 (2006.01)
C07C 69/54 (2006.01)
C12P 7/46 (2006.01)
(87) WO2009/045637
(31) 60/955,321 **(32)** 10.08.07 **(33)** US
(43) 09.04.2009
(72) Schilling, Christopher H.; Burgard, Anthony P.; Pharkya, Priti; Burk, Mark J.; Van Dien, Stephen J.
(74) Griffith Hack

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(71) Gilead Sciences, Inc.
(11) AU-A-2008298943
(21) 2008298943 **(22)** 11.09.2008
(54) Process and intermediates for preparing integrase inhibitors
(51) Int. Cl.
C07C 41/30 (2006.01)
C07C 43/225 (2006.01)
C07C 43/23 (2006.01)
C07D 215/56 (2006.01)
(87) WO2009/036161
(31) 60/971,395 **(32)** 11.09.07 **(33)** US
(43) 19.03.2009
(72) Pfeiffer, Steven; Dowdy, Eric
(74) Phillips Ormonde Fitzpatrick

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(71) GlaxoSmithKline Biologicals S.A. ; Utrecht University
(11) AU-A-2009217425
(21) 2009217425 **(22)** 06.03.2009
(54) Vaccine
(51) Int. Cl.
C07K 14/22 (2006.01)
(31) 0816447.7 **(32)** 08.09.08 **(33)** GB
(43) 25.03.2010
(72) Poolman, Jan; Tommassen, Johannes Petrus Maria; Bos, Martine Petronello; Stork, Michiel; Weynants, Vincent
(74) Shelston IP

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(71) GLOBAL ON PUZZLES PTY LTD
(11) AU-A-2008281334
(21) 2008281334 **(22)** 01.08.2008
(54) Dissection puzzle
(51) Int. Cl.
A63F 9/08 (2006.01)
A63F 9/10 (2006.01)
A63F 9/20 (2006.01)
G09B 23/04 (2006.01)
(87) WO2009/015442
(31) 2007904162 **(32)** 02.08.07 **(33)** AU
(43) 05.02.2009
(72) Wood, Mark Thornton
(74) Ahearn Fox

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(71) GLOBAL ON PUZZLES PTY LTD
(11) AU-A-2008286201
(21) 2008286201 **(22)** 07.08.2008
(54) Method of and apparatus for teaching simple mechanics
(51) Int. Cl.
G09B 1/00 (2006.01)
A63F 9/00 (2006.01)
G09B 1/02 (2006.01)
(87) WO2009/018627
(31) 2007904245 **(32)** 07.08.07 **(33)** AU
(43) 12.02.2009
(72) Dyksterhuis, Frank H.
(74) Ahearn Fox

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(71) Gode, G.
(11) AU-A-2008281521
(21) 2008281521 **(22)** 31.07.2008
(54) Solar power equipment for the industrial processing of various materials through the utilization of solar energy
(51) Int. Cl.
F24J 2/07 (2006.01)
F03G 6/06 (2006.01)
F24J 2/12 (2006.01)
F24J 2/42 (2006.01)
F24J 2/52 (2006.01)
F24J 2/54 (2006.01)
(87) WO2009/016423
(31) P 0700502 **(32)** 01.08.07 **(33)** HU
(43) 05.02.2009
(72) Gode, Gabor
(74) Chrysiliou Law

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(71) Goldring, A.
(11) AU-A-2008285230
(21) 2008285230 **(22)** 13.06.2008
(54) A cable theft prevention device
(51) Int. Cl.
H02G 9/02 (2006.01)
(87) WO2009/019618
(31) 2007/06569 **(32)** 07.08.07 **(33)** ZA
(43) 12.02.2009
(72) Goldring, Allan Cecil
(74) Freehills Patent & Trade Mark Attorneys

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(71) Goldwing Nominees Pty Ltd
(11) AU-A-2008291701
(21) 2008291701 **(22)** 28.08.2008
(54) System and method for precise real-time control of position and orientation of tooling
(51) Int. Cl.
B25J 9/10 (2006.01)
B23Q 15/20 (2006.01)
B23Q 15/22 (2006.01)
B23Q 16/00 (2006.01)
B23Q 16/12 (2006.01)
G05D 3/12 (2006.01)
(87) WO2009/026641
(31) 2007904640 **(32)** 28.08.07 **(33)** AU
2007904639 28.08.07 AU
(43) 05.03.2009
(72) Pivac, Mark Joseph; Wood, Michael Barrington
(74) Golja Haines & Friend

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(71) Goldwing Nominees Pty Ltd
(11) AU-A-2008291702
(21) 2008291702 **(22)** 28.08.2008
(54) System and method for precise real-time measurement of a target position and orientation relative to a base position, and control thereof
(51) Int. Cl.
B25J 9/10 (2006.01)
B23Q 15/20 (2006.01)
B23Q 15/22 (2006.01)
B23Q 16/12 (2006.01)
G05D 3/12 (2006.01)
(87) WO2009/026642
(31) 2007904639 **(32)** 28.08.07 **(33)** AU
2007904640 28.08.07 AU
(43) 05.03.2009
(72) Pivac, Mark Joseph; Wood, Michael Barrington
(74) Golja Haines & Friend

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(71) Grinsted, G.
(11) AU-A-2008286675
(21) 2008286675 **(22)** 29.05.2008
(54) Panel building system
(51) Int. Cl.
E04B 2/74 (2006.01)
E04B 2/82 (2006.01)
E04C 2/20 (2006.01)
E04C 2/52 (2006.01)
F16S 1/02 (2006.01)
(87) WO2009/021264
(31) 2007904307 **(32)** 10.08.07 **(33)** AU
(43) 19.02.2009
(72) Grinsted, Glenn Lawrence
(74) Wynnes Patent & Trade Mark Attorneys

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(71) Gripple Limited
(11) AU-A-2008285515
(21) 2008285515 **(22)** 04.06.2008
(54) Wire pulling and tensioning tool
(51) Int. Cl.
B25B 25/00 (2006.01)
B25B 23/143 (2006.01)
(87) WO2009/019413
(31) 0715127.7 **(32)** 03.08.07 **(33)** GB
(43) 12.02.2009
(72) Clarke, Neil; Shawcross, Brian Edward
(74) Cullens Patent and Trade Mark Attorneys

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(71) Gro-Group International Limited
(11) AU-A-2008294624
(21) 2008294624 **(22)** 29.08.2008
(54) Timing device for children
(51) Int. Cl.
G04G 9/00 (2006.01)
G04F 1/00 (2006.01)
G09B 19/12 (2006.01)
(87) WO2009/030882
(31) 0717284.4 **(32)** 06.09.07 **(33)** GB
(43) 12.03.2009
(72) Althorpe, Christopher John; Holmes, Robert Douglas
(74) Davies Collison Cave

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(71) Halliburton Energy Services, Inc.
(11) AU-A-2008294551
(21) 2008294551 **(22)** 03.09.2008
(54) Mobile systems and methods of sufficiently treating water so that the treated water may be utilized in well-treatment operations
(51) Int. Cl.
C02F 1/28 (2006.01)
C02F 9/02 (2006.01)
C02F 9/08 (2006.01)
C02F 103/10 (2006.01)
(87) WO2009/030903
(31) 11/899,299 **(32)** 05.09.07 **(33)** US
(43) 12.03.2009
(72) Phillippi, Max L.; Segura, Michael J. R.; Rosine, Randy S.; Harris, Donna L.; Slabaugh, Billy F.; Karcher, Arron L.
(74) Callinans

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(71) HallStar Innovations Corp.
(11) AU-A-2008284217
(21) 2008284217 **(22)** 27.03.2008
(54) Method of quenching electronic excitation of chromophore-containing organic molecules in photoactive compositions
(51) Int. Cl.
A61K 8/40 (2006.01)
A61Q 17/04 (2006.01)
C07C 255/41 (2006.01)
(87) WO2009/020676
(31) 12/022,758 **(32)** 30.01.08 **(33)** US
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(43) 12.02.2009
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(74) Griffith Hack

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F16H 57/08 (2006.01)
F16H 1/28 (2006.01)
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(43) 28.05.2009
(72) Smook, Warren Gregory
(74) Cotters Patent & Trade Mark Attorneys

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(54) Method and apparatus for use in lining a curved wall
(51) Int. Cl.
E04G 1/36 (2006.01)
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(31) 0715027.9 **(32)** 02.08.07 **(33)** GB
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(74) Adams Pluck

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E02B 3/14 (2006.01)
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(51) Int. Cl.
B25B 23/00 (2006.01)
(87) WO2009/044932
(31) 2008-161034 **(32)** 19.06.08 **(33)** JP
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(72) Sato, Shinichiro
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(51) Int. Cl.
F04C 2/44 (2006.01)
F04D 29/22 (2006.01)
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(43) 19.03.2009
(72) Diekmann, Ralf
(74) Callinans

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(51) Int. Cl.
C12P 3/00 (2006.01)
H01M 8/16 (2006.01)
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(43) 02.04.2009
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(74) FB Rice & Co

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(21) 2008296997 **(22)** 28.08.2008
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(51) Int. Cl.
C07F 9/6584 (2006.01)
A61K 31/675 (2006.01)
A61P 31/12 (2006.01)
(87) WO2009/032180
(31) 60/967,237 **(32)** 31.08.07 **(33)** US
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(72) Roland, Arlene; Dousson, Cyril; Surleraux, Dominique; Paparin, Jean-laurent; Pierra, Claire
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A61K 38/00 (2006.01)
A01N 65/00 (2006.01)
A61K 38/08 (2006.01)
A61P 7/06 (2006.01)
C12N 5/071 (2010.01)
(87) WO2009/017655
(31) 61/047,709 **(32)** 24.04.08 **(33)** US
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(72) Benson, Kasey L.; Siegel, Hal
(74) Shelston IP

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(54) Methods of treating blood cell depletion
(51) Int. Cl.
A01N 61/00 (2006.01)
(87) WO2009/017661
(31) 61/039,866 **(32)** 27.03.08 **(33)** US
61/039,860 27.03.08 US
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(51) Int. Cl.
G06Q 30/00 (2006.01)
G06F 17/30 (2006.01)
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(43) 19.02.2009
(72) Russell, Anthony George; Jureta, Vlado
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(21) 2008292174 **(22)** 27.08.2008
(54) Device and method for reducing weight
(51) Int. Cl.
A61N 1/05 (2006.01)
A61N 1/36 (2006.01)
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(51) Int. Cl.
C12N 15/00 (2006.01)
A61K 39/245 (2006.01)
C07K 14/02 (2006.01)
(87) WO2009/034182
(31) 60/960,091 **(32)** 14.09.07 **(33)** US
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(72) Michel, Marie-Louise; Deng, Qiang
(74) Freehills Patent & Trade Mark Attorneys

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(51) Int. Cl.
A61B 19/00 (2006.01)
A61K 31/21 (2006.01)
(87) WO2009/017837
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(43) 05.02.2009
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(21) 2008292070 **(22)** 29.08.2008
(54) Local topical administration formulations containing fipronil
(51) Int. Cl.
A61K 9/00 (2006.01)
A01N 43/00 (2006.01)
A61K 31/00 (2006.01)
A61K 47/10 (2006.01)
(87) WO2009/027506
(31) 60/969,128 **(32)** 30.08.07 **(33)** US
(43) 05.03.2009
(72) O'Neill, Peter Andrew; Wang, Chen Chao; Freehauf, Keith A.
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(21) 2008281940 **(22)** 04.07.2008
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(51) Int. Cl.
G06Q 10/00 (2006.01)

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(51) Int. Cl.
A61L 29/14 (2006.01)
A61L 29/16 (2006.01)
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(51) Int. Cl.
G06F 3/02 (2006.01)
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(43) 12.02.2009
(72) Gunn, Jeffrey Matthew Titchener
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(11) AU-A-2008291598
(21) 2008291598 **(22)** 28.08.2008
(54) Method for cellulase production
(51) Int. Cl.
C12N 9/42 (2006.01)
C12P 1/02 (2006.01)
C12P 19/00 (2006.01)
C12P 19/02 (2006.01)
C12P 19/04 (2006.01)
C12P 21/00 (2006.01)
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(31) 60/969,025 **(32)** 30.08.07 **(33)** US
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(74) Shelston IP

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(54) Enzymatic hydrolysis of lignocellulosic feedstocks using accessory enzymes
(51) Int. Cl.
C12P 19/02 (2006.01)
C12N 9/24 (2006.01)
C12N 9/42 (2006.01)
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(51) Int. Cl.
G01N 23/04 (2006.01)
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(43) 19.03.2009
(72) Makino, Shinya; Izumi, Asashirou
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(21) 2008278955 **(22)** 24.07.2008
(54) Coatings based on hydraulic binders with an optimal rheology and a high photocatalytic activity
(51) Int. Cl.
C04B 22/04 (2006.01)
C04B 28/00 (2006.01)
(87) WO2009/013337
(31) MI2007A001509 **(32)** 26.07.07 **(33)** IT
(43) 29.01.2009
(72) Alfani, Roberta
(74) Fisher Adams Kelly

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(11) AU-A-2008278956
(21) 2008278956 **(22)** 24.07.2008
(54) Cement compositions with a high photocatalytic power and an improved rheology
(51) Int. Cl.
C04B 28/02 (2006.01)
C04B 40/00 (2006.01)
C04B 14/30 (2006.01)
C04B 24/20 (2006.01)
C04B 24/26 (2006.01)
C04B 24/30 (2006.01)
C04B 24/38 (2006.01)
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(72) Pepe, Carmine; Guerrini, Gian Luca
(74) Fisher Adams Kelly

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(11) AU-A-2008299102
(21) 2008299102 **(22)** 09.09.2008
(54) Process for the preparation of compounds useful as inhibitors of SGLT
(51) Int. Cl.
A61K 31/381 (2006.01)
A61P 3/00 (2006.01)
C07D 409/10 (2006.01)
(87) WO2009/035969
(31) 60/971,067 **(32)** 10.09.07 **(33)** US
61/018,822 03.01.08 US
(43) 19.03.2009
(72) Hongu, Mitsuya; Abdel-Magid, Ahmed F.; Wells, Kenneth M.; Scott, Lorraine; Mehrman, Steven; Chisholm, Maureen; Koga, Yuichi; Zhang-Plasket, Fan; Nomura, Sumihiro
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(54) Thieno-and furo-pyrimidine modulators of the histamine H4 receptor
(51) Int. Cl.
A61K 31/00 (2006.01)
A61K 31/497 (2006.01)
A61K 31/55 (2006.01)
(87) WO2009/038673
(31) 60/972,589 **(32)** 14.09.07 **(33)** US
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(72) Edwards, James P.; Venable, Jennifer D.; Neff, Danielle K.; Smith, Deborah M.
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(21) 2008305096 **(22)** 18.09.2008
(54) Electromagnetic prospecting apparatus and electromagnetic prospecting method
(51) Int. Cl.
G01V 3/08 (2006.01)
G01R 33/035 (2006.01)
(87) WO2009/041343
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(43) 02.04.2009
(72) Ota, Hajime; Hayashi, Toshihiko; Nagaishi, Tatsuoki; Katayama, Hiroyuki; Arai, Eiichi; Masuda, Kazuo
(74) Phillips Ormonde Fitzpatrick

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(71) Kabushiki Kaisha Sangi
(11) AU-A-2008298827
(21) 2008298827 **(22)** 16.09.2008
(54) Process for production of composition by using alcohol as starting material
(51) Int. Cl.
C10L 1/02 (2006.01)
C10G 3/00 (2006.01)
(87) WO2009/034719
(31) 2007-238140 **(32)** 13.09.07 **(33)** JP
(43) 19.03.2009
(72) Sakuma, Shuji; Yoshioka, Tetsuya; Tsuchida, Takashi
(74) Freehills Patent & Trade Mark Attorneys

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(11) AU-A-2008300875
(21) 2008300875 **(22)** 17.09.2008
(54) Method for adapting at least one parameter in a controlled system of a vehicle
(51) Int. Cl.
B60T 17/22 (2006.01)
B60T 7/12 (2006.01)
B60T 17/20 (2006.01)
(87) WO2009/036960
(31) 10 2007 044 575.1 **(32)** 19.09.07 **(33)** DE
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(72) Walter, Manfred
(74) Freehills Patent & Trade Mark Attorneys

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(21) 2008283109 **(22)** 28.07.2008
(54) Situational awareness observation apparatus
(51) Int. Cl.
H04N 7/18 (2006.01)
G08B 13/196 (2006.01)
(87) WO2009/017421
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60/952,922 31.07.07 US
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(74) Davies Collison Cave

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(11) AU-A-2008286537
(21) 2008286537 **(22)** 29.07.2008
(54) Flow energy installation
(51) Int. Cl.
F03D 3/04 (2006.01)
F03D 3/06 (2006.01)
(87) WO2009/021485
(31) PCT/DE2007/001432 **(32)** 10.08.07 **(33)** DE
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(72) Krauss, Gunter
(74) Peter Maxwell & Associates

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(54) Contact lens
(51) Int. Cl.
G02C 7/04 (2006.01)
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(31) 0706572 **(32)** 19.09.07 **(33)** FR
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(72) Perrin, Gerard
(74) PIZZEYS

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(54) Position determination method
(51) Int. Cl.
G01C 15/00 (2006.01)
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(43) 02.04.2009
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(74) Fisher Adams Kelly

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(21) 2008297932 **(22)** 11.09.2008
(54) Multilayer flexible foil body
(51) Int. Cl.
G09F 3/02 (2006.01)
G09F 9/30 (2006.01)
G09F 13/04 (2006.01)
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(74) Fisher Adams Kelly

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(21) 2008295747 **(22)** 03.09.2008
(54) Supporter and pedestal and washing/drying machine having the same
(51) Int. Cl.
D06F 39/12 (2006.01)
(87) WO2009/031815
(31) 10-2007-0089184 **(32)** 03.09.07 **(33)** KR
(43) 12.03.2009
(72) Kim, Hyun-Seok
(74) Davies Collison Cave

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(54) Protective sleeves for containers
(51) Int. Cl.
B65D 23/08 (2006.01)
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(31) 60/967,537 **(32)** 04.09.07 **(33)** US
(43) 12.03.2009
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(21) 2008293476 **(22)** 29.08.2008
(54) Methods for producing sterile cryogenic fluids
(51) Int. Cl.
F25J 3/00 (2006.01)
(87) WO2009/029749
(31) 60/966,796 **(32)** 30.08.07 **(33)** US
(43) 05.03.2009
(72) Lee, Ron Clark; Chinh, Beatrice
(74) Shelston IP

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(21) 2008293504 **(22)** 27.08.2008
(54) Immunogenic compositions and methods
(51) Int. Cl.
A61K 39/295 (2006.01)
A61K 39/085 (2006.01)
A61K 39/102 (2006.01)
A61K 39/116 (2006.01)
A61K 39/145 (2006.01)
A61P 31/04 (2006.01)
A61P 31/16 (2006.01)
(87) WO2009/029686
(31) 60/968,145 **(32)** 27.08.07 **(33)** US
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(54) Liquid consumption meter
(51) Int. Cl.
G01F 1/06 (2006.01)
G01F 15/14 (2006.01)
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(31) 10 2007 036 117.5 **(32)** 01.08.07 **(33)** DE
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(11) AU-A-2008281325
(21) 2008281325 **(22)** 30.07.2008
(54) A building panel and locking device therefor
(51) Int. Cl.
E04B 1/38 (2006.01)
E04C 2/04 (2006.01)
F16B 21/02 (2006.01)
F16B 21/16 (2006.01)
(87) WO2009/015433
(31) 2007904338 **(32)** 13.08.07 **(33)** AU
2007904163 02.08.07 AU
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(21) 2008291842 **(22)** 22.08.2008
(54) Process for producing hepcidin
(51) Int. Cl.
C07K 14/575 (2006.01)
A61K 38/22 (2006.01)
A61K 39/395 (2006.01)
C07K 16/26 (2006.01)
C12P 21/02 (2006.01)
G01N 33/68 (2006.01)
G01N 33/78 (2006.01)
(87) WO2009/027752
(31) 20070100553 **(32)** 24.08.07 **(33)** GR
(43) 05.03.2009
(72) Mamalaki, Avgi; Marinou, Martha; Koliaraki, Vasiliki
(74) Shelston IP

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(11) AU-A-2008300512
(21) 2008300512 **(22)** 05.09.2008
(54) Waste conveying system
(51) Int. Cl.
B65F 5/00 (2006.01)
E04F 17/10 (2006.01)
(87) WO2009/037376
(31) 20075652 **(32)** 18.09.07 **(33)** FI
20075847 28.11.07 FI
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(43) 26.03.2009
(72) Sundholm, Goran
(74) Griffith Hack

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(11) AU-A-2008293708
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(54) Apparatus and method of applying edible pearlescent coating to a food product
(51) Int. Cl.
A23G 3/20 (2006.01)
A23G 3/34 (2006.01)
A23L 1/00 (2006.01)

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(87) WO2009/029528
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(43) 05.03.2009
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(74) Watermark Patent & Trademark Attorneys

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(21) 2009208188 **(22)** 31.01.2009
(54) Knife
(51) Int. Cl.
B26B 5/00 (2006.01)
(87) WO2009/095002
(31) 10 2008 007 090.4 **(32)** 31.01.08 **(33)** DE
10 2008 019 441.7 17.04.08 DE
(43) 06.08.2009
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(11) AU-A-2008296532
(21) 2008296532 **(22)** 27.08.2008
(54) Method and composition for making an orally disintegrating dosage form
(51) Int. Cl.
A61K 9/20 (2006.01)
(87) WO2009/032655
(31) 11/847,444 **(32)** 30.08.07 **(33)** US
(43) 12.03.2009
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(74) Shelston IP

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(11) AU-A-2008302460
(21) 2008302460 **(22)** 15.09.2008
(54) Dip coated compositions containing co-polymer of polyvinyl alcohol and polyethylene glycol and a gum
(51) Int. Cl.
A61K 9/28 (2006.01)
(87) WO2009/039049
(31) 60/972,901 **(32)** 17.09.07 **(33)** US
(43) 26.03.2009
(72) Chen, Jen-Chi
(74) Shelston IP

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(71) Medingo Ltd.
(11) AU-A-2008281381
(21) 2008281381 **(22)** 31.07.2008
(54) Portable infusion device provided with means for monitoring and controlling fluid delivery
(51) Int. Cl.
A61M 5/142 (2006.01)
(87) WO2009/016636
(31) 60/963,148 **(32)** 01.08.07 **(33)** US
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(43) 05.02.2009
(72) Gescheit, Iddo M.; Yodfat, Ofer
(74) Wrays

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(71) Medingo Ltd.
(11) AU-A-2008281383
(21) 2008281383 **(22)** 31.07.2008
(54) Device for facilitating infusion of therapeutic fluids and sensing of bodily analytes
(51) Int. Cl.
A61M 5/142 (2006.01)
A61B 5/00 (2006.01)
A61M 5/158 (2006.01)
A61M 5/172 (2006.01)
(87) WO2009/016638
(31) 61/008,694 **(32)** 21.12.07 **(33)** US
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(72) Gescheit, Illai; Gescheit, Iddo M.; Yodfat, Ofer
(74) Wrays

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(11) AU-A-2008289571
(21) 2008289571 **(22)** 18.08.2008
(54) Hemostatic agent composition and method of delivery
(51) Int. Cl.
A61K 9/14 (2006.01)
A61F 13/00 (2006.01)
A61F 13/02 (2006.01)
A61M 35/00 (2006.01)
A61P 7/04 (2006.01)
(87) WO2009/025782
(31) 60/964,955 **(32)** 16.08.07 **(33)** US
12/191,323 14.08.08 US
(43) 26.02.2009
(72) Mentkow, Jack; Mentkow, Lisa
(74) La Fontaine IP Services

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(71) Merck Sharp & Dohme Corp.
(11) AU-A-2008296974
(21) 2008296974 **(22)** 02.09.2008
(54) Soluble guanylate cyclase activators
(51) Int. Cl.
A61P 9/12 (2006.01)
A61K 31/415 (2006.01)
A61K 31/427 (2006.01)
A61K 31/4418 (2006.01)
A61K 31/4427 (2006.01)
A61K 31/497 (2006.01)
A61K 31/506 (2006.01)
A61P 7/02 (2006.01)
A61P 11/06 (2006.01)
A61P 15/10 (2006.01)
C07D 231/12 (2006.01)
C07D 401/04 (2006.01)
C07D 401/14 (2006.01)
C07D 403/04 (2006.01)
C07D 405/14 (2006.01)
C07D 409/14 (2006.01)
C07D 495/04 (2006.01)
A61K 31/00 (2006.01)
A61K 31/4365 (2006.01)
A61P 9/00 (2006.01)
A61P 27/02 (2006.01)
A61P 35/00 (2006.01)
(87) WO2009/032249
(31) 60/967,827 **(32)** 06.09.07 **(33)** US
(43) 12.03.2009
(72) Kim, Ronald M.; Parmee, Emma R.; Mirc, J. W.; Bittner, Amy R.; Chang, Jiang; Tan, Qiang; Sinz, Christopher Joseph
(74) Spruson & Ferguson

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(71) MethylGene Inc.
(11) AU-A-2008293038
(21) 2008293038 **(22)** 28.08.2008
(54) Inhibitors of protein tyrosine kinase activity
(51) Int. Cl.
C07D 495/04 (2006.01)
A61K 31/00 (2006.01)
A61K 31/4365 (2006.01)
A61P 9/00 (2006.01)
A61P 27/02 (2006.01)
A61P 35/00 (2006.01)
(87) WO2009/026717
(31) 60/968,673 **(32)** 29.08.07 **(33)** US
(43) 05.03.2009
(72) Zhou, Nancy Z.; Gaudette, Frederic; Zhan, Lijie; Isakovic, Ljubomir; Vaisburg, Arkadii; Mannion, Michael; Claridge, Stephen William; Raeppel, Franck; Uno, Tetsuyuki; Saavedra, Oscar Mario; Raeppel, Stephane; Deziel, Robert
(74) Freehills Patent & Trade Mark Attorneys

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(71) Microsoft Corporation
(11) AU-A-2008292779
(21) 2008292779 **(22)** 29.08.2008
(54) Coreference resolution in an ambiguity-sensitive natural language processing system
(51) Int. Cl.
G06F 17/20 (2006.01)
G06F 17/27 (2006.01)
(87) WO2009/029903
(31) 60/969,483 **(32)** 31.08.07 **(33)** US
12/200,962 29.08.08 US
60/969,426 31.08.07 US
(43) 05.03.2009
(72) Crouch, Richard; Salvetti, Franco; Ahn, David; Thione, Giovanni Lorenzo; Van Den Berg, Martin
(74) Davies Collison Cave

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(11) AU-A-2008292781
(21) 2008292781 **(22)** 29.08.2008
(54) Identification of semantic relationships within reported speech
(51) Int. Cl.
G06F 17/27 (2006.01)
G06F 17/28 (2006.01)
G06F 17/30 (2006.01)
(87) WO2009/029905
(31) 12/201,675 **(32)** 29.08.08 **(33)** US
60/969,434 31.08.07 US
(43) 05.03.2009
(72) Gurevich, Olya; Thione, Giovanni Lorenzo; Ahn, David; Crouch, Richard; Polanyi, Livia; Van Den Berg, Martin; Prevost, Scott; Pell, Barney
(74) Davies Collison Cave

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(11) AU-A-2008292827
(21) 2008292827 **(22)** 29.08.2008
(54) Transparent, stable titanium dioxide sols
(51) Int. Cl.
B01J 23/00 (2006.01)
(87) WO2009/029856
(31) 11/848,967 **(32)** 31.08.07 **(33)** US
(43) 05.03.2009
(72) Monk, Billiejo M.; McIntyre, Robert; Fu, Guoyi
(74) Phillips Ormonde Fitzpatrick

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(21) 2008292920 **(22)** 29.08.2008
(54) Photocatalytic coating
(51) Int. Cl.
B32B 18/00 (2006.01)
(87) WO2009/029854
(31) 11/848,972 **(32)** 31.08.07 **(33)** US
(43) 05.03.2009
(72) Bygott, Claire; Maltby, Julie Elizabeth
(74) Phillips Ormonde Fitzpatrick

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(71) Mitsubishi Tanabe Pharma Corporation
(11) AU-A-2008283265
(21) 2008283265 **(22)** 31.07.2008
(54) Fused bicyclic compound
(51) Int. Cl.
C07D 265/16 (2006.01)
A61K 31/352 (2006.01)
A61K 31/353 (2006.01)
A61K 31/536 (2006.01)
A61P 9/00 (2006.01)
A61P 9/04 (2006.01)
A61P 9/12 (2006.01)
A61P 43/00 (2006.01)
C07D 311/58 (2006.01)
C07D 413/04 (2006.01)
(87) WO2009/017190
(31) 2007-200264 **(32)** 01.08.07 **(33)** JP
(43) 05.02.2009
(72) Kawaguchi, Takayuki; Iijima, Toru; Takahashi, Yoichi; Awai, Nobumasa; Akatsuka, Hidenori
(74) Phillips Ormonde Fitzpatrick

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(71) Money Savvy Generation, LLC
(11) AU-A-2008296820
(21) 2008296820 **(22)** 05.06.2008
(54) Compartmented bank
(51) Int. Cl.
A45C 1/00 (2006.01)
(87) WO2009/032373
(31) 11/850,367 **(32)** 05.09.07 **(33)** US
(43) 12.03.2009
(72) Beacham, Michael
(74) Davies Collison Cave

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(71) Monteco, Ltd.
(11) AU-A-2008286748
(21) 2008286748 **(22)** 15.08.2008
(54) Filter for removing sediment from water
(51) Int. Cl.
B01D 35/14 (2006.01)
E04H 4/16 (2006.01)
(87) WO2009/023832
(31) 11/839,303 **(32)** 15.08.07 **(33)** US
12/014,888 16.01.08 US
(43) 19.02.2009
(72) Williams, Gregory Richard; Murray, Christopher Adam; Lawless, Darren Francis Kevin; Braun, Stephen Eric; Garbon, Joel Anthony
(74) Watermark Patent & Trademark Attorneys

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(11) AU-A-2008284015
(21) 2008284015 **(22)** 04.08.2008
(54) Human monoclonal antibodies and methods for producing the same
(51) Int. Cl.
C12P 21/04 (2006.01)
(87) WO2009/020923
(31) 60/953,739 **(32)** 03.08.07 **(33)** US
(43) 12.02.2009
(72) Sutkowski, Natalie; Rubinchik, Semyon
(74) Pizzeys

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(11) AU-A-2008300607
(21) 2008300607 **(22)** 15.09.2008
(54) Tricyclic heterocyclic derivatives
(51) Int. Cl.
C07D 491/052 (2006.01)
A61K 31/40 (2006.01)
A61P 25/00 (2006.01)
(87) WO2009/037220
(31) 07116561.7 **(32)** 17.09.07 **(33)** EP
(43) 26.03.2009
(72) Kiyoi, Takao; Mistry, Ashvinkumar Dhirubhai; Wishart, Grant; Grove, Simon James Anthony; Ray, Peter Christopher
(74) Spruson & Ferguson

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(11) AU-A-2008286385
(21) 2008286385 **(22)** 04.08.2008
(54) Stabilizer system for halogenated polymers
(51) Int. Cl.
C08K 3/00 (2006.01)
C08K 5/00 (2006.01)
C08L 27/06 (2006.01)
(87) WO2009/021652
(31) 10 2007 037 795.0 **(32)** 10.08.07 **(33)** DE
(43) 19.02.2009
(72) Dave, Trupti; Wehner, Wolfgang
(74) Pizzeys

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(71) Nagarjuna Energy Private Limited
(11) AU-A-2008281484
(21) 2008281484 **(22)** 31.07.2008
(54) A process for preventing polymerization of cracked volatile products during pyrolysis and gasification
(51) Int. Cl.
C10J 3/00 (2006.01)
C10L 10/00 (2006.01)
(87) WO2009/016473
(31) 223/CHE/2007 **(32)** 01.08.07 **(33)** IN
(43) 05.02.2009
(72) Sarkar, Manoj Kumar; Vasanthi, Malaiyandi; Pandey, Banibrata; Rao, Koruprolu Venkata; Sakthipriya, Petichimuthu
(74) Freehills Patent & Trade Mark Attorneys

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(11) AU-A-2008281488
(21) 2008281488 **(22)** 31.07.2008
(54) A process for producing small molecular weight organic compounds from carbonaceous material
(51) Int. Cl.
C10G 47/02 (2006.01)
C10G 47/32 (2006.01)
(87) WO2009/016477
(31) 221/CHE/2007 **(32)** 01.08.07 **(33)** IN
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(72) Chakrabarti, Dhurjati Prasad; Sarkar, Dhruba; Pandey, Banibrata; Sarkar, Manoj Kumar
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(11) AU-A-2007357335
(21) 2007357335 **(22)** 03.08.2007
(54) Solid oxide fuel cell systems with improved gas channeling and heat exchange
(51) Int. Cl.
H01M 8/02 (2006.01)
H01M 8/04 (2006.01)
H01M 8/06 (2006.01)
H01M 8/24 (2006.01)
(87) WO2009/020445
(43) 12.02.2009
(72) Robinson, Charles; Finnerty, Caine
(74) Griffith Hack

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(71) Nanotherapeutics, Inc.
(11) AU-A-2008296971
(21) 2008296971 **(22)** 02.09.2008
(54) Particulate compositions for delivery of poorly soluble drugs
(51) Int. Cl.
A61K 9/50 (2006.01)
A61K 31/485 (2006.01)
A61P 25/04 (2006.01)
(87) WO2009/032246
(31) 60/969,672 **(32)** 03.09.07 **(33)** US
(43) 12.03.2009
(72) Talton, James D.
(74) Cullens Patent and Trade Mark Attorneys

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(11) AU-A-2008295964
(21) 2008295964 **(22)** 03.09.2008
(54) Forgery prevention printed matter
(51) Int. Cl.
B41M 3/14 (2006.01)
B42D 15/10 (2006.01)
(87) WO2009/031570
(31) 2008-199731 **(32)** 01.08.08 **(33)** JP
2008-161350 20.06.08 JP
2007-295146 14.11.07 JP
2008-199732 01.08.08 JP
2008-111008 22.04.08 JP
2007-227564 03.09.07 JP
(43) 12.03.2009
(72) Satoh, Kayoko; Kiuchi, Masato; Ohshima, Kazuya; Kiuchi, Susumu
(74) Davies Collison Cave

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(71) NCH Corporation ; Boesch-Deveze, W.
(11) AU-A-2008293880
(21) 2008293880 **(22)** 07.07.2008
(54) Light-activated portable aerosol mist sprayer device
(51) Int. Cl.
A01G 27/00 (2006.01)
(87) WO2009/029337
(31) 11/847,505 **(32)** 30.08.07 **(33)** US

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(71) Nestec S.A.
(11) AU-A-2008291199
(21) 2008291199 **(22)** 12.08.2008
(54) Collapsible bottles and methods using same
(51) Int. Cl.
B65D 1/02 (2006.01)
B65D 21/02 (2006.01)
(87) WO2009/027224
(31) 11/846,386 **(32)** 28.08.07 **(33)** US
(43) 05.03.2009
(72) Lepior, Robert; Hong, Seung-Yeol
(74) Shelston IP

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(71) Nestec S.A.
(11) AU-A-2008297074
(21) 2008297074 **(22)** 12.09.2008
(54) Wolfberries and inflammation
(51) Int. Cl.
A61K 36/815 (2006.01)
A61P 29/00 (2006.01)
(87) WO2009/034162
(31) 07116190.5 **(32)** 12.09.07 **(33)** EP
(43) 19.03.2009
(72) Ballevre, Olivier; Vidal, Karine; Bucheli, Peter; Wang, Junkuan; Philippe, David; Blum-Sperisen, Stephanie
(74) Shelston IP

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(71) New York University ; Opgen, Inc.
(11) AU-A-2008286737
(21) 2008286737 **(22)** 15.08.2008
(54) Method, system and software arrangement for comparative analysis and phylogeny with whole-genome optical maps
(51) Int. Cl.
G01N 33/48 (2006.01)
(87) WO2009/023821
(31) 60/955,955 **(32)** 15.08.07 **(33)** US
(43) 19.02.2009
(72) Mishra, Bhubaneswar; Briska, Adam; Sun, Bing; Schwartz, Jacob
(74) Spruson & Ferguson

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(71) Nextera AS
(11) AU-A-2008290537
(21) 2008290537 **(22)** 20.08.2008
(54) pVII phage display
(51) Int. Cl.
C12N 15/10 (2006.01)
C07K 19/00 (2006.01)
C12N 15/62 (2006.01)
(87) WO2009/024591
(31) PA 2007 01673 **(32)** 26.11.07 **(33)** DK
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(43) 26.02.2009
(72) Loset, Geir Age
(74) FB Rice & Co

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(71) Nextivity, Inc.
(11) AU-A-2008292822
(21) 2008292822 **(22)** 02.09.2008
(54) OFDM modem using pilot sub-carrier structure
(51) Int. Cl.
H04L 25/02 (2006.01)
H04L 27/26 (2006.01)
(87) WO2009/029946
(31) 60/969,519 **(32)** 31.08.07 **(33)** US
(43) 05.03.2009
(72) Mohebbi, Behzad B.
(74) Phillips Ormonde Fitzpatrick

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(71) Nike International, Ltd.
(11) AU-A-2008296623
(21) 2008296623 **(22)** 22.08.2008
(54) Iron type golf clubs and golf club heads having weight containing and/or vibration damping insert members
(51) Int. Cl.
A63B 53/04 (2006.01)
(87) WO2009/032557
(31) 11/846,362 **(32)** 28.08.07 **(33)** US
(43) 12.03.2009
(72) Green III, Charles Jack; Slaughter, Byron Cole; Boyd, Robert
(74) Davies Collison Cave

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(71) Nippon Oil Corporation
(11) AU-A-2008292356
(21) 2008292356 **(22)** 29.08.2008
(54) Method for production of carotenoid
(51) Int. Cl.
C12P 23/00 (2006.01)
A23L 1/30 (2006.01)
A61K 8/35 (2006.01)
A61K 31/122 (2006.01)
A61P 17/18 (2006.01)
A61P 39/06 (2006.01)
A61Q 19/00 (2006.01)
C12N 15/09 (2006.01)
C12R 1/01 (2006.01)
(87) WO2009/028643
(31) 2007-222476 **(32)** 29.08.07 **(33)** JP
(43) 05.03.2009
(72) Shimizu, Kentaro; Dohi, Hideyuki; Uchizawa, Shotaro; Ishizaki, Tomoyuki; Takahashi, Toshiyuki
(74) F B Rice & Co

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(71) Nippon Steel Corporation
(11) AU-A-2008294980
(21) 2008294980 **(22)** 02.09.2008
(54) Process for manufacturing molded products of direct-reduced iron and process for manufacturing pig iron
(51) Int. Cl.
C21B 13/10 (2006.01)
C21B 5/00 (2006.01)
C22B 1/16 (2006.01)
C22B 1/248 (2006.01)
(87) WO2009/031537
(31) 2007-230193 **(32)** 05.09.07 **(33)** JP
2008-218015 27.08.08 JP
(43) 12.03.2009
(72) Ibaraki, Tetsuharu
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(71) Novartis AG
(11) AU-A-2008294413
(21) 2008294413 **(22)** 04.09.2008
(54) Compositions comprising Yersinia pestis antigens
(51) Int. Cl.
A61K 39/02 (2006.01)
A61P 31/04 (2006.01)
C12N 1/20 (2006.01)
(87) WO2009/031043
(31) 0717187.9 **(32)** 04.09.07 **(33)** GB
(43) 12.03.2009
(72) Grandi, Guido; Grifantini, Renata Maria; Galli, Giuliano Alberto; Scarselli, Maria; Frigimelica, Elisabetta; Bartolini, Erika
(74) FB Rice & Co

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(71) NTT DoCoMo, Inc.
(11) AU-A-2008289998
(21) 2008289998 **(22)** 14.08.2008
(54) Mobile communication method, radio base station device, and mobile station
(51) Int. Cl.
H04W 72/04 (2009.01)
(87) WO2009/025236
(31) 2007-213182 **(32)** 17.08.07 **(33)** JP
(43) 26.02.2009
(72) Ishii, Minami; Abeta, Sadayuki
(74) Spruson & Ferguson

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(71) NTT DoCoMo, Inc.
(11) AU-A-2008308246
(21) 2008308246 **(22)** 26.09.2008
(54) Mobile station device, base station device, upstream link and downstream link transmission method
(51) Int. Cl.
H04J 11/00 (2006.01)
H04J 1/00 (2006.01)
(87) WO2009/044686
(31) 2007-258107 **(32)** 01.10.07 **(33)** JP
(43) 09.04.2009
(72) Kawamura, Teruo; Kishiyama, Yoshihisa; Higuchi, Kenichi; Sawahashi, Mamoru
(74) Spruson & Ferguson

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(71) Omega Flex, Inc.
(11) AU-A-2008299042
(21) 2008299042 **(22)** 10.09.2008
(54) Fitting for use with tubing containment system
(51) Int. Cl.
F16L 25/00 (2006.01)
(87) WO2009/035999
(31) 60/971,024 **(32)** 10.09.07 **(33)** US
(43) 19.03.2009
(72) Rivest, Dean W.; Rolland, Stirling Keith
(74) Cullens Patent and Trade Mark Attorneys

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(71) OMRIX BIOPHARMACEUTICALS LTD.
(11) AU-A-2008291817
(21) 2008291817 **(22)** 29.08.2008
(54) Compositions suitable for treatment of spinal disease, disorder or condition
(51) Int. Cl.
A61L 27/22 (2006.01)
A61K 38/36 (2006.01)
C12N 5/07 (2010.01)
(87) WO2009/027814
(31) 07115352.2 **(32)** 30.08.07 **(33)** EP
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(74) Callinans

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(11) AU-A-2007357662
(21) 2007357662 **(22)** 14.12.2007
(54) Wave electric power plant
(51) Int. Cl.
F03B 13/12 (2006.01)
(87) WO2009/023000
(31) a 2007 08685 **(32)** 27.07.07 **(33)** UA
(43) 19.02.2009
(72) Ovsyankin, Aleksey Vyacheslavovich; Ovsyankin, Vyacheslav Viktorovich; Kovalskyi, Aleksii Antonovich
(74) Griffith Hack

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(71) Owens-Brockway Glass Container Inc.
(11) AU-A-2008305672
(21) 2008305672 **(22)** 22.09.2008
(54) Plunger foot assembly for a glassware forming machine
(51) Int. Cl.
C03B 9/36 (2006.01)
C03B 9/193 (2006.01)
C03B 9/38 (2006.01)
C03B 9/40 (2006.01)
(87) WO2009/042087
(31) 11/903,474 **(32)** 24.09.07 **(33)** US
(43) 02.04.2009
(72) Kirkman, Thomas R.
(74) Shelston IP

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(71) Palfinger AG
(11) AU-A-2008295425
(21) 2008295425 **(22)** 29.08.2008
(54) Profile shape for a crane jib
(51) Int. Cl.
B66C 23/687 (2006.01)
(87) WO2009/029967
(31) GM 528/2007 **(32)** 05.09.07 **(33)** AT
(43) 12.03.2009
(72) Wimmer, Eckhard
(74) Callinans

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(71) PEPSICO, INC.
(11) AU-A-2008302574
(21) 2008302574 **(22)** 04.09.2008
(54) Steviol glycoside isomers
(51) Int. Cl.
C07H 13/08 (2006.01)
A23L 1/236 (2006.01)
A23L 2/60 (2006.01)
C07C 62/32 (2006.01)
C07H 15/24 (2006.01)
(87) WO2009/038978
(31) 11/856,274 **(32)** 17.09.07 **(33)** US
(43) 26.03.2009
(72) Lee, Thomas
(74) Intellepro

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(71) Peterken, N.
(11) AU-A-2008287621
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(54) A structure
(51) Int. Cl.
E04B 1/343 (2006.01)
B65D 88/02 (2006.01)
B65D 90/02 (2006.01)
B65D 90/08 (2006.01)
E04H 4/04 (2006.01)
E04H 7/02 (2006.01)
(87) WO2009/022923
(31) 560570 **(32)** 14.08.07 **(33)** NZ
(43) 19.02.2009
(72) Peterken, Neil Terry
(74) Halfords IP

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(71) Pfizer Inc.
(11) AU-A-2008302053
(21) 2008302053 **(22)** 22.09.2008
(54) Method and apparatus for monitoring the performance of automated egg removal
(51) Int. Cl.
A01K 43/00 (2006.01)
(87) WO2009/039520
(31) 11/859,285 **(32)** 21.09.07 **(33)** US
(43) 26.03.2009
(72) Hebrank, John H.
(74) Allens Arthur Robinson Patent & Trade Marks Attorneys

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(71) Pierre Fabre Medicament
(11) AU-A-2008278978
(21) 2008278978 **(22)** 28.07.2008
(54) Novel fluorescent derivatives of polyamine, method for preparing same and applications thereof as diagnosis tools in the treatment of cancerous tumours
(51) Int. Cl.
C07D 271/12 (2006.01)
A61K 31/4245 (2006.01)
C09K 11/06 (2006.01)
G01N 33/533 (2006.01)
G01N 33/574 (2006.01)
(87) WO2009/013360
(31) 0756743 **(32)** 26.07.07 **(33)** FR
(43) 29.01.2009
(72) Annereau, Jean-Philippe; Guminski, Yves; Imbert, Thierry; Barret, Jean-Marc
(74) Phillips Ormonde Fitzpatrick

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(71) PRESIDENT AND FELLOWS OF HARVARD COLLEGE
(11) AU-A-2008284352
(21) 2008284352 **(22)** 01.08.2008
(54) Chlamydia antigens
(51) Int. Cl.
C07K 14/00 (2006.01)
(87) WO2009/020553
(31) 60/963,215 **(32)** 03.08.07 **(33)** US
(43) 12.02.2009
(72) Starnbach, Michael N.; Roan, Nadia R.; Higgins, Darren E.; Gierahn, Todd
(74) Griffith Hack

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(71) Probiodrug AG
(11) AU-A-2008297070
(21) 2008297070 **(22)** 12.09.2008
(54) Transgenic mice
(51) Int. Cl.
C07K 14/47 (2006.01)
A01K 67/027 (2006.01)
C12N 9/10 (2006.01)
C12N 15/85 (2006.01)
(87) WO2009/034158
(31) 60/971,631 **(32)** 12.09.07 **(33)** US
(43) 19.03.2009
(72) Schilling, Stephan; Jagla, Wolfgang; Graubner, Sigrid; Cynis, Holger; Demuth, Hans-Ulrich
(74) Watermark Patent & Trademark Attorneys

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(71) Protalix Ltd.
(11) AU-A-2008290217
(21) 2008290217 **(22)** 20.08.2008
(54) Saccharide-containing protein conjugates and uses thereof
(51) Int. Cl.
A61K 47/48 (2006.01)
A61P 43/00 (2006.01)
(87) WO2009/024977
(31) 60/935,587 **(32)** 20.08.07 **(33)** US
(43) 26.02.2009
(72) Shulman, Avidor; Ruderfer, Ilya
(74) Cullens Patent and Trade Mark Attorneys

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(71) QLT Plug Delivery, Inc
(11) AU-A-2008300013
(21) 2008300013 **(22)** 05.09.2008
(54) Drug cores for sustained release of therapeutic agents
(51) Int. Cl.
A61K 9/00 (2006.01)
A61F 2/02 (2006.01)
A61F 9/00 (2006.01)
A61M 5/14 (2006.01)
(87) WO2009/035562
(31) 61/049,317 **(32)** 30.04.08 **(33)** US
60/970,699 07.09.07 US
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(43) 19.03.2009
(72) De Juan Jr., Eugene; Reich, Cary J.; Gifford, Hanson S.; Boyd, Stephen; Shimizu, Robert W.; Jain, Rachna; Utkhede, Deepank
(74) Pizzeys

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(71) QUANTUM ENGINEERING, INC.
(11) AU-A-2008284140
(21) 2008284140 **(22)** 25.07.2008
(54) Methods and systems for making a GPS signal vital
(51) Int. Cl.
B61L 29/00 (2006.01)
G01S 1/00 (2006.01)
(87) WO2009/020777
(31) 11/835,050 **(32)** 07.08.07 **(33)** US
(43) 12.02.2009
(72) Hickenlooper, Harrison Thomas; Kane, Mark
(74) A J PARK

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(71) Queensland University of Technology
(11) AU-A-2008295441
(21) 2008295441 **(22)** 03.09.2008
(54) A feeder cell-free culture medium and system
(51) Int. Cl.
C12N 5/07 (2010.01)

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C12N 5/071 (2010.01)
(87) WO2009/029983
(31) 2008900955 **(32)** 27.02.08 **(33)** AU
2007904793 04.09.07 AU
(43) 12.03.2009
(72) Cormack, Luke Bryant; Richards, Sean Dennis; Leavesley, David; Upton, Zee; Harkin, Damien
(74) Fisher Adams Kelly

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(71) RAYTHEON COMPANY
(11) AU-A-2008338937
(21) 2008338937 **(22)** 18.09.2008
(54) Methods and apparatus for marine deployment
(51) Int. Cl.
B64F 1/04 (2006.01)
B64F 1/06 (2006.01)
(87) WO2009/079045
(31) 60/973,328 **(32)** 18.09.07 **(33)** US
(43) 25.06.2009
(72) Zerbe, Jeff; Sampson, Ray; Bossert, David
(74) Griffith Hack

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(71) Reckitt Benckiser Inc.
(11) AU-A-2008294615
(21) 2008294615 **(22)** 15.08.2008
(54) Improvements in hard surface treatment compositions
(51) Int. Cl.
C11D 1/83 (2006.01)
C11D 3/43 (2006.01)
(87) WO2009/030873
(31) 0717397.4 **(32)** 07.09.07 **(33)** GB
(43) 12.03.2009
(72) Mathur, Dilip
(74) FB Rice & Co

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(71) Reckitt Benckiser Inc.
(11) AU-A-2008299699
(21) 2008299699 **(22)** 08.09.2008
(54) Improvements in lavatory treatment devices
(51) Int. Cl.
E03D 9/00 (2006.01)
E03D 9/02 (2006.01)
(87) WO2009/034304
(31) 0717951.8 **(32)** 14.09.07 **(33)** GB
(43) 19.03.2009
(72) Burt, Diane Joyce; Weller, Jeanne Marie
(74) FB Rice & Co

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(71) Reckitt Benckiser Inc.
(11) AU-A-2008300390
(21) 2008300390 **(22)** 15.09.2008
(54) Cageless dispensing device
(51) Int. Cl.
E03D 9/02 (2006.01)
(87) WO2009/037431
(31) 0718420.3 **(32)** 21.09.07 **(33)** GB
(43) 26.03.2009
(72) Jugarap, Dalmacio T.; Burt, Diane
(74) FB Rice & Co

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(71) Reckitt Benckiser N.V.
(11) AU-A-2008290375
(21) 2008290375 **(22)** 20.08.2008
(54) Detergent composition
(51) Int. Cl.
C11D 3/37 (2006.01)
C11D 17/00 (2006.01)
(87) WO2009/024780
(31) 0716228.2 **(32)** 20.08.07 **(33)** GB
(43) 26.02.2009
(72) Van Loyen, Dietmar; Preuschen, Judith
(74) FB Rice & Co

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(71) RemarksPDF Pty Ltd
(11) AU-A-2008288670
(21) 2008288670 **(22)** 13.08.2008
(54) A document markup tool
(51) Int. Cl.
G06F 17/21 (2006.01)
(87) WO2009/023896
(31) 2008901544 **(32)** 01.04.08 **(33)** AU
2007904494 21.08.07 AU
(43) 26.02.2009
(72) Colbran, Stephen
(74) FB Rice & Co

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(71) Renton, J. ; Nott, P.
(11) AU-A-2007358184
(21) 2007358184 **(22)** 24.08.2007
(54) Height rescue apparatus
(51) Int. Cl.
A62B 1/18 (2006.01)
A62B 1/10 (2006.01)
(87) WO2009/027619
(43) 05.03.2009
(72) Nott, Peter Thomas Mence; Renton, Julian Elwyn
(74) Spruson & Ferguson

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(71) Reynolds Consumer Products, Inc.
(11) AU-A-2008296188
(21) 2008296188 **(22)** 05.09.2008
(54) Hydrocarbon-adsorbing porous pavement structure
(51) Int. Cl.
E01C 7/30 (2006.01)
E01C 11/16 (2006.01)
(87) WO2009/033037
(31) 11/851,714 **(32)** 07.09.07 **(33)** US
(43) 12.03.2009
(72) Kaul, Joseph B.
(74) Spruson & Ferguson

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(71) RIC Investments, LLC
(11) AU-A-2008282597
(21) 2008282597 **(22)** 11.07.2008
(54) Pressure reducing valve with flexible cuff
(51) Int. Cl.
A62B 9/00 (2006.01)
(87) WO2009/017952
(31) 60/953,001 **(32)** 31.07.07 **(33)** US
12/169,658 09.07.08 US
(43) 05.02.2009
(72) Busch, Lance; Ho, Peter Chi Fai
(74) FB Rice & Co

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(71) Robert Bosch GmbH
(11) AU-A-2008324971
(21) 2008324971 **(22)** 28.10.2008
(54) Auger bit including a reamer
(51) Int. Cl.
B27G 15/00 (2006.01)
(87) WO2009/061636
(31) 11/982,942 **(32)** 06.11.07 **(33)** US
(43) 14.05.2009
(72) Ibarra, Javier; Dost, Hagen Walter
(74) Callinans

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(71) Rohm and Haas Company
(11) AU-A-2008302504
(21) 2008302504 **(22)** 09.09.2008
(54) Compositions and methods for the modification of physiological responses in plants
(51) Int. Cl.
C12N 5/04 (2006.01)
C12N 15/82 (2006.01)
(87) WO2009/039001
(31) 60/973,057 **(32)** 17.09.07 **(33)** US
(43) 26.03.2009
(72) Rosichan, Jeffrey L.; Gallie, Daniel R.
(74) Phillips Ormonde Fitzpatrick

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(71) ROLLS-ROYCE PLC
(11) AU-A-2008285524
(21) 2008285524 **(22)** 10.07.2008
(54) A fuel cell and a method of manufacturing a fuel cell
(51) Int. Cl.
H01M 8/12 (2006.01)
H01M 8/24 (2006.01)
(87) WO2009/019422
(31) 0715225.9 **(32)** 03.08.07 **(33)** GB
(43) 12.02.2009
(72) Agnew, Gerard Daneil; Dixon, Peter James
(74) Griffith Hack

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(71) Saeco IPR Limited
(11) AU-A-2008283726
(21) 2008283726 **(22)** 31.07.2008
(54) Support with a double resting surface for cups and other containers in machines for the production of beverages
(51) Int. Cl.
A47J 31/44 (2006.01)
(87) WO2009/016681
(31) FI2007A000184 **(32)** 02.08.07 **(33)** IT
(43) 05.02.2009
(72) Marchi, Marco; Frigeri, Patrizio
(74) FB Rice & Co

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(71) SAINT GOBAIN TECHNICAL FABRICS AMERICA, INC.
(11) AU-A-2008283888
(21) 2008283888 **(22)** 06.08.2008
(54) Composite tack film for asphaltic paving, method of paving, and process for making a composite tack film for asphaltic paving
(51) Int. Cl.
B32B 27/00 (2006.01)
E01C 7/26 (2006.01)
E01C 7/35 (2006.01)
(87) WO2009/021040
(31) 12/186,263 **(32)** 05.08.08 **(33)** US
60/954,415 07.08.07 US

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(72) Lee, Sugjoon
(74) EF WELLINGTON & CO

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(71) SAINT GOBAIN TECHNICAL FABRICS AMERICA, INC.
(11) AU-A-2008283894
(21) 2008283894 **(22)** 06.08.2008
(54) Reinforcement for asphaltic paving, method of paving, and process for making a grid with the coating for asphaltic paving
(51) Int. Cl.
C08L 31/04 (2006.01)
E01C 5/08 (2006.01)
E01C 11/16 (2006.01)
(87) WO2009/021046
(31) 60/954,415 **(32)** 07.08.07 **(33)** US
12/186,222 05.08.08 US
(43) 12.02.2009
(72) Woolstencroft, Jon; Lee, Sugjoon; Hook, Kerry; Goupil, Richard; Newton, Mark J.; Fague, Gary R.
(74) EF WELLINGTON & CO

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(71) SAINT GOBAIN TECHNICAL FABRICS AMERICA, INC.
(11) AU-A-2008283899
(21) 2008283899 **(22)** 06.08.2008
(54) Composite with tack film for asphaltic paving, method of paving, and process for making a composite with tack film for asphaltic paving
(51) Int. Cl.
E01C 5/06 (2006.01)
E01C 5/22 (2006.01)
E01C 7/26 (2006.01)
E01C 7/35 (2006.01)
(87) WO2009/021051
(31) 12/186,247 **(32)** 05.08.08 **(33)** US
60/954,415 07.08.07 US
(43) 12.02.2009
(72) Hook, Kerry; Woolstencroft, Jon; Lee, Sugjoon
(74) EF WELLINGTON & CO

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(71) SANDEN CORPORATION
(11) AU-A-2008294163
(21) 2008294163 **(22)** 28.08.2008
(54) Scroll type fluid machine
(51) Int. Cl.
F04C 18/02 (2006.01)
F04B 39/12 (2006.01)
F04C 29/12 (2006.01)
(87) WO2009/031452
(31) 2007-231450 **(32)** 06.09.07 **(33)** JP
(43) 12.03.2009
(72) Suzuki, Tomiji; Higashiyama, Akiyoshi
(74) Griffith Hack

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(71) Sandvik Mining and Construction RSA (Pty) Ltd
(11) AU-A-2008340168
(21) 2008340168 **(22)** 08.09.2008
(54) Electronic blasting capsule
(51) Int. Cl.
F42B 3/00 (2006.01)
F42B 3/12 (2006.01)
F42D 3/04 (2006.01)
(87) WO2009/082767
(31) 2007/08012 **(32)** 10.09.07 **(33)** ZA
(43) 02.07.2009
(72) Oosthuizen, Ockert; Leppanen, Jarmo
(74) Halfords IP

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(71) Sanofi-Aventis
(11) AU-A-2008295145
(21) 2008295145 **(22)** 20.08.2008
(54) Use of urate oxidase for the treatment or prophylaxis of disorders or indirect sequelae of the heart caused by ischemic or reperfusion events
(51) Int. Cl.
A61P 9/10 (2006.01)
C12N 9/06 (2006.01)
(87) WO2009/030373
(31) 07291072.2 **(32)** 05.09.07 **(33)** EP
61/015,240 20.12.07 US
(43) 12.03.2009
(72) Linz, Wolfgang; Schaefer, Matthias
(74) Watermark Patent & Trademark Attorneys

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(71) Sanofi-Aventis
(11) AU-A-2008296501
(21) 2008296501 **(22)** 28.08.2008
(54) Identifying molecules that modulate protein- protein interactions using protease activated reporters
(51) Int. Cl.
G01N 33/58 (2006.01)
(87) WO2009/032716
(31) 60/969,756 **(32)** 04.09.07 **(33)** US
61/084,987 30.07.08 US
(43) 12.03.2009
(72) Weissensee, Paul; Wright, Paul S.; Cai, Jidong; Eishingdrelo, Haifeng
(74) Watermark Patent & Trademark Attorneys

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(71) Sanofi-Aventis
(11) AU-A-2008296538
(21) 2008296538 **(22)** 27.08.2008
(54) Humanized anti-CXCR5 antibodies, derivatives thereof and their uses
(51) Int. Cl.
A61K 39/395 (2006.01)
(87) WO2009/032661
(31) 60/968,792 **(32)** 29.08.07 **(33)** US
(43) 12.03.2009
(72) Lee, Renata; Ruetsch, Norman; Cameron, Beatrice; Oligino, Thomas; Mikol, Vincent; Baurin, Nicolas; Allen, Elizabeth
(74) Watermark Patent & Trademark Attorneys

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(71) Sapphire Energy, Inc.
(11) AU-A-2008298953
(21) 2008298953 **(22)** 10.09.2008
(54) Methods of producing organic products with photosynthetic organisms and products and compositions thereof
(51) Int. Cl.
C10L 1/00 (2006.01)
(87) WO2009/036087
(31) 60/971,418 **(32)** 11.09.07 **(33)** US
60/973,924 20.09.07 US
60/971,412 11.09.07 US
61/130,892 02.06.08 US
(43) 19.03.2009
(72) Pyle, Jason; Aravanis, Alex
(74) Freehills Patent & Trade Mark Attorneys

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(71) Sapphire Energy, Inc.
(11) AU-A-2008307471
(21) 2008307471 **(22)** 06.10.2008
(54) System for capturing and modifying large pieces of genomic DNA and constructing organisms with synthetic chloroplasts
(51) Int. Cl.
C07H 21/04 (2006.01)
C07K 14/52 (2006.01)
C12N 15/00 (2006.01)
C12N 15/09 (2006.01)
(87) WO2009/045550
(31) 60/978,024 **(32)** 05.10.07 **(33)** US
(43) 09.04.2009
(72) Mikkelson, Kari; O'Neill, Bryan; Mendez, Mike
(74) Freehills Patent & Trade Mark Attorneys

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(71) SCA Hygiene Products AB
(11) AU-A-2007358688
(21) 2007358688 **(22)** 03.09.2007
(54) Laminate having improved wiping properties and a method for producing the laminate
(51) Int. Cl.
A47L 13/17 (2006.01)
B32B 5/26 (2006.01)
D04H 5/00 (2006.01)
D04H 13/00 (2006.01)
(87) WO2009/031951
(43) 12.03.2009
(72) Strandqvist, Mikael; Fingal, Lars
(74) Watermark Patent & Trademark Attorneys

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(71) SCHLUMBERGER TECHNOLOGY B.V.
(11) AU-A-2008286769
(21) 2008286769 **(22)** 15.08.2008
(54) Flapper gas lift valve
(51) Int. Cl.
E21B 43/00 (2006.01)
(87) WO2009/023853
(31) 12/138,150 **(32)** 12.06.08 **(33)** US
60/956,069 15.08.07 US
(43) 19.02.2009
(72) White, Thomas; Burnett III, Kenneth C.; Garner, James; Messick, Tyson; Mccalvin, David; Abdellal, Fahd F.
(74) Griffith Hack

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(71) Scientific Games International, Inc.
(11) AU-A-2008293402
(21) 2008293402 **(22)** 29.08.2008
(54) Enhanced scanner design
(51) Int. Cl.
A63F 3/00 (2006.01)
(87) WO2009/029772
(31) 12/200,367 **(32)** 28.08.08 **(33)** US
60/966,582 29.08.07 US

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(72) Irwin Jr., Kenneth E.; Holbrook, Jonathan; Streeter, Gary R.; Behm, William F.; Herndon, Burbank; Mejenborg, Sten
(74) Spruson & Ferguson

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(71) SEAFORTH PRODUCTS LIMITED
(11) AU-A-2008284506
(21) 2008284506 **(22)** 06.08.2008
(54) Improvements in or relating to milking machine claws
(51) Int. Cl.
A01J 5/04 (2006.01)
A01J 5/00 (2006.01)
A01K 1/12 (2006.01)
A23C 19/08 (2006.01)
A61M 1/06 (2006.01)
(87) WO2009/020407
(31) 560370 **(32)** 06.08.07 **(33)** NZ
(43) 12.02.2009
(72) Easterbrook-Smith, Carol Louise Eleanor; Phillips, Dougald Steward Moreland
(74) Antonia Sims

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(71) Second Sight Medical Products
(11) AU-A-2008282451
(21) 2008282451 **(22)** 25.07.2008
(54) Implantable device for the brain
(51) Int. Cl.
A61N 1/36 (2006.01)
A61N 1/05 (2006.01)
A61N 1/375 (2006.01)
(87) WO2009/018172
(31) 60/954,798 **(32)** 08.08.07 **(33)** US
60/986,269 07.11.07 US
60/952,530 27.07.07 US
60/954,265 06.08.07 US
61/017,507 28.12.07 US
(43) 05.02.2009
(72) Mech, Brian V.; Greenberg, Robert J.; McClure, Kelly H.
(74) Spruson & Ferguson

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(71) SHANGHAI INSTITUTES FOR BIOLOGICAL SCIENCES, CHINESE ACADEMY OF SCIENCES
(11) AU-A-2008286583
(21) 2008286583 **(22)** 11.08.2008
(54) A plant height regulatory gene and uses thereof
(51) Int. Cl.
C07K 14/415 (2006.01)
A01H 1/02 (2006.01)
A01H 3/00 (2006.01)
A01H 5/00 (2006.01)
C12N 15/29 (2006.01)
C12N 15/63 (2006.01)
C12N 15/82 (2006.01)
C12P 21/02 (2006.01)
(87) WO2009/021448
(31) 200710044772.5 **(32)** 10.08.07 **(33)** CN
(43) 19.02.2009
(72) He, Zuhua; Zhang, Yingying; Li, Qun
(74) Collison & Co

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(71) Sharp Kabushiki Kaisha
(11) AU-A-2008305083
(21) 2008305083 **(22)** 17.09.2008
(54) Solar cell, concentrator photovoltaic module, concentrator photovoltaic unit and solar cell manufacturing method
(51) Int. Cl.
H01L 31/042 (2006.01)
(87) WO2009/041330
(31) 2007-249551 **(32)** 26.09.07 **(33)** JP
2008-016592 28.01.08 JP
(43) 02.04.2009
(72) Okamoto, Chikao
(74) Davies Collison Cave

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(71) Shell Internationale Research Maatschappij B.V.
(11) AU-A-2008292143
(21) 2008292143 **(22)** 29.08.2008
(54) Process for removal of hydrogen sulphide and carbon dioxide from an acid gas stream
(51) Int. Cl.
B01D 53/52 (2006.01)
B01D 53/14 (2006.01)
(87) WO2009/027491
(31) 07115264.9 **(32)** 30.08.07 **(33)** EP
(43) 05.03.2009
(72) Brok, Theodorus Johannes; Van Der Zwet, Gerardus Petrus
(74) PIZZEYS

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(71) Shell Internationale Research Maatschappij B.V.
(11) AU-A-2008297220
(21) 2008297220 **(22)** 08.09.2008
(54) Process for producing purified synthesis gas from synthesis gas comprising trace amounts of sulphur contaminants with a metal-organic framework
(51) Int. Cl.
B01D 53/04 (2006.01)
B01J 20/22 (2006.01)
C01B 3/56 (2006.01)
C01B 31/20 (2006.01)
C10L 3/10 (2006.01)
(87) WO2009/034048
(31) 07115991.7 **(32)** 10.09.07 **(33)** EP
(43) 19.03.2009
(72) Wijntje, Renze; Estaba Sambrano, Roberto Andres
(74) PIZZEYS

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(71) SIDKAR TECHNOLOGIES, INC.
(11) AU-A-2008304451
(21) 2008304451 **(22)** 25.09.2008
(54) Methods and device for producing hydrogen from biomass
(51) Int. Cl.
C01B 3/02 (2006.01)
(87) WO2009/042745
(31) 60/975,760 **(32)** 27.09.07 **(33)** US
11/874,499 18.10.07 US
(43) 02.04.2009
(72) Saha, Siddhartha; Aneja, Karan
(74) Griffith Hack

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(71) Silverbrook Research Pty Ltd
(11) AU-A-2008301203
(21) 2008301203 **(22)** 24.07.2008
(54) Printer driver for interactive printer
(51) Int. Cl.
G06F 3/12 (2006.01)
(87) WO2009/036485
(31) 60/974,077 **(32)** 21.09.07 **(33)** US
(43) 26.03.2009
(72) Hollins, Michael; Silverbrook, Kia; Lapstun, Paul
(74) Silverbrook Research Pty Ltd

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(71) Silverbrook Research Pty Ltd
(11) AU-A-2008301204
(21) 2008301204 **(22)** 24.07.2008
(54) Coding pattern comprising direction codes
(51) Int. Cl.
G06K 1/00 (2006.01)
G06K 7/00 (2006.01)
(87) WO2009/036486
(31) 60/974,077 **(32)** 21.09.07 **(33)** US
(43) 26.03.2009
(72) Lapstun, Paul
(74) Silverbrook Research Pty Ltd

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(71) Silverbrook Research Pty Ltd
(11) AU-A-2008301206
(21) 2008301206 **(22)** 24.07.2008
(54) Coding pattern with data elements encoding by multi-pulse position modulation
(51) Int. Cl.
G06K 19/06 (2006.01)
(87) WO2009/036487
(31) 60/974,077 **(32)** 21.09.07 **(33)** US
(43) 26.03.2009
(72) Lapstun, Paul
(74) Silverbrook Research Pty Ltd

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(71) Smith & Nephew, Inc.
(11) AU-A-2008296209
(21) 2008296209 **(22)** 05.09.2008
(54) System and method for communicating with a telemetric implant
(51) Int. Cl.
H01Q 1/22 (2006.01)
A61N 1/372 (2006.01)
G06K 19/077 (2006.01)
H01Q 7/02 (2006.01)
(87) WO2009/032969
(31) 60/970,460 **(32)** 06.09.07 **(33)** US
(43) 12.03.2009
(72) Janna, Sied W.; Brady, Peter A.; Goodchild, Martin S.; Wilson, Darren J.
(74) Davies Collison Cave

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(71) Smith & Nephew Orthopaedics AG
(11) AU-A-2008296237
(21) 2008296237 **(22)** 04.09.2008
(54) Ultra high molecular weight polyethylene for bearing surfaces
(51) Int. Cl.
A61L 27/26 (2006.01)
A61L 27/50 (2006.01)
A61L 27/54 (2006.01)
(87) WO2009/032909
(31) 60/969,870 **(32)** 04.09.07 **(33)** US
(43) 12.03.2009
(72) Jani, Shilesh C.; Brunner, Lorenz; Schmotzer, Hans; Dirix, Yvo
(74) Davies Collison Cave

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(71) SMS Siemag AG
(11) AU-A-2008290746
(21) 2008290746 **(22)** 22.08.2008
(54) Process and hot-dip coating system for stabilizing a strip guided between stripping dies of the hot-dip coating system and provided with a coating
(51) Int. Cl.
C23C 2/00 (2006.01)
C23C 2/24 (2006.01)
C23C 2/40 (2006.01)
(87) WO2009/024353
(31) 10 2007 039 690.4 **(32)** 22.08.07 **(33)** DE
(43) 26.02.2009
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(71) SMS Siemag AG
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(21) 2008295256 **(22)** 06.08.2008
(54) Device for transferring continuous casting slabs
(51) Int. Cl.
B22D 11/12 (2006.01)
B22D 11/14 (2006.01)
(87) WO2009/030190
(31) 10 2007 043 003.7 **(32)** 06.09.07 **(33)** DE
(43) 12.03.2009
(72) Lipowski, Michael
(74) Griffith Hack

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(71) SMS Siemag AG
(11) AU-A-2008298147
(21) 2008298147 **(22)** 15.08.2008
(54) Device for adjusting the distance of a stripper chisel
(51) Int. Cl.
B21B 39/16 (2006.01)
(87) WO2009/033445
(31) 10 2007 048 747.0 **(32)** 08.10.07 **(33)** DE
10 2007 044 569.7 10.09.07 DE
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(74) Griffith Hack

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(21) 2008303912 **(22)** 08.09.2008
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(51) Int. Cl.
C23C 2/00 (2006.01)
F16C 33/76 (2006.01)
(87) WO2009/039950
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(72) Jabs, Ronald; De Kock, Peter
(74) Griffith Hack

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(21) 2008294472 **(22)** 03.09.2008
(54) Fastening tool for fastening different length elements
(51) Int. Cl.
B25C 1/18 (2006.01)
B25C 5/16 (2006.01)
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(31) 0706213 **(32)** 05.09.07 **(33)** FR
(43) 12.03.2009
(72) Herelier, Patrick; Vallon, Emmanuel
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(71) Sonitus Medical, Inc.
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(21) 2008289428 **(22)** 03.06.2008
(54) Bone conduction hearing device with open-ear microphone
(51) Int. Cl.
H04R 25/00 (2006.01)
(87) WO2009/025917
(31) 11/843,541 **(32)** 22.08.07 **(33)** US
(43) 26.02.2009
(72) Rader, Richard Scott; Abolfathi, Amir
(74) FB Rice & Co

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(71) Sony Corporation ; Panasonic Corporation
(11) AU-A-2009264850
(21) 2009264850 **(22)** 30.06.2009
(54) Method for evaluating reproduced signal, reproduced signal evaluation device and optical disc device equipped with the same
(51) Int. Cl.
G11B 20/18 (2006.01)
G11B 20/14 (2006.01)
(87) WO2010/001588
(31) 61/129,510 **(32)** 01.07.08 **(33)** US
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(11) AU-A-2008299487
(21) 2008299487 **(22)** 09.09.2008
(54) Electric drive and method for controlling it
(51) Int. Cl.
H02P 6/06 (2006.01)
G01R 15/18 (2006.01)
H02P 6/08 (2006.01)
H02P 6/18 (2006.01)
H02P 6/20 (2006.01)
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(72) De Filippis, Pietro
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(71) SpectraSensors, Inc.
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(21) 2008292847 **(22)** 29.08.2008
(54) Scrubber for reactive gasses
(51) Int. Cl.
B01D 53/52 (2006.01)
B01D 53/58 (2006.01)
B01D 53/68 (2006.01)
G01N 30/02 (2006.01)
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(31) 60/968,846 **(32)** 29.08.07 **(33)** US
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(72) Baum, Marc M.; Zhou, Xin; Kwan, Alex; Liu, Xiang; Moss, John; Feitisch, Alfred
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(11) AU-A-2008293734
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(54) Loop rod spinal stabilization device
(51) Int. Cl.
A61B 17/70 (2006.01)
(87) WO2009/029458
(31) 60/957,986 **(32)** 24.08.07 **(33)** US
(43) 05.03.2009
(72) Lake, Matt; Blain, Jason; Martin, Greg
(74) Shelston IP

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(11) AU-A-2008288688
(21) 2008288688 **(22)** 20.08.2008
(54) Ribbon dispenser, ribbon dispensing clip & ribbon information label
(51) Int. Cl.
B65H 49/18 (2006.01)
A47F 7/17 (2006.01)
B65H 75/28 (2006.01)
(87) WO2009/023914
(31) 2007904551 **(32)** 23.08.07 **(33)** AU
(43) 26.02.2009
(72) Castley, Anthony
(74) Adams Pluck

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(71) Steelcase Inc.
(11) AU-A-2009255741
(21) 2009255741 **(22)** 05.05.2009
(54) Chair with control system
(51) Int. Cl.
A47C 3/026 (2006.01)
A47C 1/032 (2006.01)
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(31) 12/133,339 **(32)** 04.06.08 **(33)** US
(43) 10.12.2009
(72) Heidmann, Kurt; Root, Brian H.; Dinnewith, Mark; Norman, Christopher; Holdredge, Russell
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(11) AU-A-2009258164
(21) 2009258164 **(22)** 26.05.2009
(54) Conforming back for a seating unit
(51) Int. Cl.
A47C 7/44 (2006.01)
A47C 7/40 (2006.01)
(87) WO2009/151545
(31) 61/056,051 **(32)** 26.05.08 **(33)** US
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(72) Overthun, Thomas; Holdredge, Russell; Johnson, Kara; Peterson, Grodon J.; Person, Luke; Norman, Christopher; Smith, Bruce
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(21) 2008286232 **(22)** 30.07.2008
(54) Measuring staff
(51) Int. Cl.
G01C 15/00 (2006.01)
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(21) 2008285767 **(22)** 18.07.2008
(54) A surface acoustic wave driving circuit and oscillator therefor
(51) Int. Cl.
H03B 5/32 (2006.01)
(87) WO2009/019121
(31) 07425513.4 **(32)** 06.08.07 **(33)** EP
(43) 12.02.2009
(72) Moiraghi, Luca; Moiraghi, Paolo; Moiraghi, Guido
(74) Griffith Hack

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(71) Sumitomo Chemical Company, Limited
(11) AU-A-2008293309
(21) 2008293309 **(22)** 28.08.2008
(54) Fluorine-containing organosulfur compound and pesticidal composition comprising the same
(51) Int. Cl.
C07D 231/12 (2006.01)
A01N 43/08 (2006.01)
A01N 43/10 (2006.01)
A01N 43/36 (2006.01)
C07D 233/60 (2006.01)
C07D 261/08 (2006.01)
C07D 333/28 (2006.01)
(87) WO2009/028727
(31) 2007-225593 **(32)** 31.08.07 **(33)** JP
(43) 05.03.2009
(72) Kumamoto, Koji; Miyazaki, Hiroyuki
(74) Davies Collison Cave

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(71) Sumitomo Chemical Company, Limited
(11) AU-A-2008297805
(21) 2008297805 **(22)** 12.09.2008
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(51) Int. Cl.
C07D 237/16 (2006.01)
A01N 43/58 (2006.01)
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(31) 2007-239162 **(32)** 14.09.07 **(33)** JP
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(72) Fusaka, Takafumi
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(71) Sumitomo Metal Industries, Ltd.
(11) AU-A-2008292607
(21) 2008292607 **(22)** 22.08.2008
(54) Two-axle bogie for railway vehicle and railway vehicle
(51) Int. Cl.
B60B 17/00 (2006.01)
B61F 3/02 (2006.01)
B61F 13/00 (2006.01)
(87) WO2009/028415
(31) 2007-221329 **(32)** 28.08.07 **(33)** JP
(43) 05.03.2009
(72) Nakai, Takuji; Kikko, Satoshi
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(71) Suntory Holdings Limited
(11) AU-A-2008297025
(21) 2008297025 **(22)** 09.09.2008
(54) Glucose-induced inactivation/degradation-resistant transporter gene and use thereof
(51) Int. Cl.
C12N 15/85 (2006.01)
(43) 25.03.2010
(72) Hatanaka, Haruyo; Omura, Fumihiko
(74) FB Rice & Co

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(71) Suntory Holdings Limited
(11) AU-A-2008297026
(21) 2008297026 **(22)** 09.09.2008
(54) Hybrid alpha-glucoside transporter
(51) Int. Cl.
C12N 15/09 (2006.01)
(43) 25.03.2010
(72) Hatanaka, Haruyo; Omura, Fumihiko
(74) FB Rice & Co

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(71) Suntory Holdings Limited
(11) AU-A-2008297027
(21) 2008297027 **(22)** 09.09.2008
(54) Glucose-induced inactivation/degradation-resistant transporter gene and use thereof
(51) Int. Cl.
C12N 15/09 (2006.01)
(43) 25.03.2010
(72) Omura, Fumihiko; Hatanaka, Haruyo
(74) FB Rice & Co

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(71) SurgRx, Inc.
(11) AU-A-2008302317
(21) 2008302317 **(22)** 17.09.2008
(54) Electrosurgical instrument and method
(51) Int. Cl.
A61B 18/18 (2006.01)
(87) WO2009/039179
(31) 60/973,254 **(32)** 18.09.07 **(33)** US
12/050,462 18.03.08 US
(43) 26.03.2009
(72) Baker, James
(74) Freehills Patent & Trade Mark Attorneys

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(71) Suzhou Industrial Park Linkerinfo Ltd.
(11) AU-A-2008286112
(21) 2008286112 **(22)** 01.08.2008
(54) Method for loading advertisement in electronic map
(51) Int. Cl.
G06Q 30/00 (2006.01)
(87) WO2009/018763
(31) 200710025799.X **(32)** 03.08.07 **(33)** CN
(43) 12.02.2009
(72) Shen, Hao
(74) Shelston IP

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(54) Use of G-CSF for the treatment of stroke
(51) Int. Cl.
A61K 38/19 (2006.01)
A61P 9/10 (2006.01)
(87) WO2009/037191
(31) 07018029.4 **(32)** 13.09.07 **(33)** EP
(43) 26.03.2009
(72) Schneider, Armin; Laage, Rico; Vogt, Gerhard; Koch, Winfried
(74) Phillips Ormonde Fitzpatrick

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(11) AU-A-2008292840
(21) 2008292840 **(22)** 29.08.2008
(54) Guided catheter with removable magnetic guide
(51) Int. Cl.
A61J 15/00 (2006.01)
A61M 25/00 (2006.01)
A61M 25/01 (2006.01)
B29C 47/00 (2006.01)
(87) WO2009/029869
(31) 60/969,020 **(32)** 30.08.07 **(33)** US
61/073,552 18.06.08 US
(43) 05.03.2009
(72) Winkler, Josef; Wakeford, Gary; Gabriel, Sabry; Frankhouser, Paul; Sandoski, Aaron
(74) FB Rice & Co

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(71) Syngenta Participations AG
(11) AU-A-2008295059
(21) 2008295059 **(22)** 03.09.2008
(54) Fungicidal 2-alkylthio-2-quinolinyloxy-acetamide deritvatives
(51) Int. Cl.
C07D 215/20 (2006.01)
A01N 43/42 (2006.01)
(87) WO2009/030469
(31) 0717258.8 **(32)** 05.09.07 **(33)** GB
(43) 12.03.2009
(72) Beaudegnies, Renaud; Quaranta, Laura; Murphy, Kessabi Fiona; Cederbaum, Fredrik; Brunner, Hans-Georg
(74) Davies Collison Cave

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(71) Syngenta Participations AG
(11) AU-A-2008314218
(21) 2008314218 **(22)** 03.09.2008
(54) Novel fungicides
(51) Int. Cl.
A01N 43/42 (2006.01)
C07D 215/20 (2006.01)
(87) WO2009/049716
(31) 0717260.4 **(32)** 05.09.07 **(33)** GB
(43) 23.04.2009
(72) Quaranta, Laura; Cederbaum, Fredrik; Brunner, Hans-Georg; Beaudegnies, Renaud; Murphy, Kessabi Fiona
(74) Davies Collison Cave

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(71) Synta Pharmaceuticals Corp.
(11) AU-A-2008282737
(21) 2008282737 **(22)** 31.07.2008
(54) Vinyl-aryl derivatives for inflammation and immune-related uses
(51) Int. Cl.
C07D 213/04 (2006.01)
C07D 213/22 (2006.01)
(87) WO2009/017831
(31) 60/962,823 **(32)** 01.08.07 **(33)** US

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(74) Shelston IP

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(71) Synthes GmbH
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(21) 2008298938 **(22)** 11.09.2008
(54) Interspinous spacer
(51) Int. Cl.
A61B 17/70 (2006.01)
(87) WO2009/036156
(31) 60/972,572 **(32)** 14.09.07 **(33)** US
(43) 19.03.2009
(72) Emch, Hansjuerg; Skidmore, Grant A.; Aschmann, Felix; Mayer, H. Michael; Oswald, Martin; Senn, Peter
(74) Phillips Ormonde Fitzpatrick

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(71) Syntonix Pharmaceuticals, Inc.
(11) AU-A-2008284047
(21) 2008284047 **(22)** 01.08.2008
(54) Immunomodulatory peptides
(51) Int. Cl.
C07K 14/435 (2006.01)
(87) WO2009/020867
(31) 60/954,968 **(32)** 09.08.07 **(33)** US
(43) 12.02.2009
(72) Mezo, Adam R.; McDonnell, Kevin A.
(74) Cullens Patent and Trade Mark Attorneys

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(71) Tescom Corporation
(11) AU-A-2008302542
(21) 2008302542 **(22)** 28.08.2008
(54) In-line adjustable regulator
(51) Int. Cl.
G05D 16/10 (2006.01)
(87) WO2009/038946
(31) 11/855,756 **(32)** 14.09.07 **(33)** US
(43) 26.03.2009
(72) Burgett, Eric Jacob; Patterson, Daryll D.
(74) Shelston IP

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(71) Tescom Corporation
(11) AU-A-2008302630
(21) 2008302630 **(22)** 28.08.2008
(54) Modular in-line fluid regulators
(51) Int. Cl.
F16K 17/00 (2006.01)
(87) WO2009/038945
(31) 11/855,830 **(32)** 14.09.07 **(33)** US
(43) 26.03.2009
(72) Jablonski, Jason Dirk; Patterson, Daryll D.
(74) Shelston IP

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(71) TetraVitae Bioscience, Inc.
(11) AU-A-2008299029
(21) 2008299029 **(22)** 10.09.2008
(54) Process for solvent production utilizing liquid phase adsorption
(51) Int. Cl.
B01D 15/00 (2006.01)
C12P 7/16 (2006.01)
(87) WO2009/036076
(31) 60/993,348 **(32)** 11.09.07 **(33)** US
(43) 19.03.2009
(72) Kouba, Jay; Oroskar, Anil
(74) Fisher Adams Kelly

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(71) Texas Tech University System
(11) AU-A-2008293458
(21) 2008293458 **(22)** 28.08.2008
(54) Method and system for preserving food
(51) Int. Cl.
A23L 3/01 (2006.01)
A23L 3/26 (2006.01)
(87) WO2009/029731
(31) 60/968,411 **(32)** 28.08.07 **(33)** US
(43) 05.03.2009
(72) Brooks, J. Chance; Brashears, Mindy M.; Coccoli, Gianfranco; Felappi, Federico; Piazza, Mario; Alvarado, Christine; Franzoni, Stefania; Brashears, Todd; Sapelli, Pierluigi; Tolettini, Nicola
(74) Pizzeys

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(71) The Board of Trustees of the Leland Stanford Junior University
(11) AU-A-2008297471
(21) 2008297471 **(22)** 28.08.2008
(54) Biomarker to measure drug efficacy in enteropathic disease
(51) Int. Cl.
A61K 49/00 (2006.01)
(87) WO2009/035510
(31) 60/971,435 **(32)** 11.09.07 **(33)** US
(43) 19.03.2009
(72) Bethune, Michael; Khosla, Chaitan
(74) FB Rice & Co

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(71) The Boeing Company
(11) AU-A-2008307317
(21) 2008307317 **(22)** 27.08.2008
(54) Vehicle-based automatic traffic conflict and collision avoidance
(51) Int. Cl.
G01S 13/93 (2006.01)
G08G 5/04 (2006.01)
(87) WO2009/045664
(31) 11/864,335 **(32)** 28.09.07 **(33)** US
(43) 09.04.2009
(72) Bushnell, Glenn S.
(74) Spruson & Ferguson

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(71) The Coca-Cola Company
(11) AU-A-2008296239
(21) 2008296239 **(22)** 04.09.2008
(54) Beverage dispenser
(51) Int. Cl.
G07F 9/02 (2006.01)
B67D 1/00 (2006.01)
B67D 1/08 (2006.01)
(87) WO2009/032911
(31) 60/970,514 **(32)** 06.09.07 **(33)** US
(43) 12.03.2009
(72) Tran, Son V.; Antao, Leonard F.; Peters, Dan; Kolls, Brock H.; Newman, David R.; Slagley, David O.
(74) Phillips Ormonde Fitzpatrick

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(71) The Coca-Cola Company
(11) AU-A-2008296257
(21) 2008296257 **(22)** 04.09.2008
(54) Systems and methods for facilitating consumer-dispenser interactions
(51) Int. Cl.
G07F 9/02 (2006.01)
B67D 1/00 (2006.01)
B67D 1/08 (2006.01)
(87) WO2009/032929
(31) 60/970,513 **(32)** 06.09.07 **(33)** US
60/970,512 06.09.07 US
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(43) 12.03.2009
(72) Newman, David R.; Slagley, David 0.; Tran, Son V.; Kolls, H. Brock; Antao, Leonard F.; Peters, Dan
(74) Phillips Ormonde Fitzpatrick

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(71) The Coca-Cola Company
(11) AU-A-2008296266
(21) 2008296266 **(22)** 04.09.2008
(54) Method for controlling a plurality of dispensers
(51) Int. Cl.
G07F 9/02 (2006.01)
B67D 1/00 (2006.01)
B67D 1/08 (2006.01)
(87) WO2009/032938
(31) 60/970,513 **(32)** 06.09.07 **(33)** US
60/970,509 06.09.07 US
60/970,511 06.09.07 US
(43) 12.03.2009
(72) Kolls, H. Brock; Antao, Leonard F.; Tran, Son V.; Peters, Dan; Newman, David R.; Slagley, David O.
(74) Phillips Ormonde Fitzpatrick

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(71) The Coca-Cola Company
(11) AU-A-2008296269
(21) 2008296269 **(22)** 04.09.2008
(54) Method for consumer-dispenser interactions
(51) Int. Cl.
G07F 9/02 (2006.01)
B67D 1/00 (2006.01)
B67D 1/08 (2006.01)
(87) WO2009/032941
(31) 60/970,511 **(32)** 06.09.07 **(33)** US
60/970,513 06.09.07 US
(43) 12.03.2009
(72) Peters, Dan; Tran, Son V.; Newman, David R.; Antao, Leonard F.; Slagley, David O.; Kolls, Brock H.
(74) Phillips Ormonde Fitzpatrick

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(71) The Coca-Cola Company
(11) AU-A-2008296270
(21) 2008296270 **(22)** 04.09.2008
(54) Systems and methods for providing dynamic ingredient matrix reconfiguration in a product dispenser
(51) Int. Cl.
B67D 1/00 (2006.01)
(87) WO2009/032942
(31) 60/970,507 **(32)** 06.09.07 **(33)** US
(43) 12.03.2009
(72) Kolls, Brock H.; Newman, David R.; Tran, Son V.; Carpenter, Gregg
(74) Phillips Ormonde Fitzpatrick

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(11) AU-A-2008296274
(21) 2008296274 **(22)** 04.09.2008
(54) Device and method for operating an interactive dispenser
(51) Int. Cl.
G07F 9/02 (2006.01)
B67D 1/00 (2006.01)
B67D 1/08 (2006.01)
(87) WO2009/032946
(31) 60/970,509 **(32)** 06.09.07 **(33)** US
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(43) 12.03.2009
(72) Tran, Son V.; Slagley, David O.; Antao, Leonard F.; Kolls, H. Brock; Peters, Dan; Newman, David R.
(74) Phillips Ormonde Fitzpatrick

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(71) The Coca-Cola Company
(11) AU-A-2008296300
(21) 2008296300 **(22)** 04.09.2008
(54) Systems and methods of selecting and dispensing mixed beverages
(51) Int. Cl.
B67D 1/00 (2006.01)
(87) WO2009/032877
(31) 60/970,359 **(32)** 06.09.07 **(33)** US
(43) 12.03.2009
(72) Rudick, Arthur G.; Ellis, Annie T.
(74) Phillips Ormonde Fitzpatrick

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(71) The Coca-Cola Company
(11) AU-A-2008296471
(21) 2008296471 **(22)** 27.08.2008
(54) Method and apparatuses for providing a selectable beverage
(51) Int. Cl.
G07F 13/06 (2006.01)
A47J 31/40 (2006.01)
B67D 1/00 (2006.01)
(87) WO2009/032686
(31) 60/970,278 **(32)** 06.09.07 **(33)** US
12/171,698 11.07.08 US
(43) 12.03.2009
(72) Rudick, Arthur G.
(74) Phillips Ormonde Fitzpatrick

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(71) The Cola-Cola Company
(11) AU-A-2008296297
(21) 2008296297 **(22)** 04.09.2008
(54) Systems and methods for providing portion control programming in a product forming dispenser
(51) Int. Cl.
B67D 1/00 (2006.01)
(87) WO2009/032874
(31) 60/970,488 **(32)** 06.09.07 **(33)** US
(43) 12.03.2009
(72) Newman, David Roy
(74) Phillips Ormonde Fitzpatrick

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(71) The Cola-Cola Company
(11) AU-A-2008296298
(21) 2008296298 **(22)** 04.09.2008
(54) Systems and methods for monitoring and controlling the dispense of a plurality of product forming ingredients
(51) Int. Cl.
B67D 1/00 (2006.01)
B67D 1/08 (2006.01)
B67D 1/12 (2006.01)
(87) WO2009/032875
(31) 60/970,486 **(32)** 06.09.07 **(33)** US
(43) 12.03.2009
(72) Newman, David Roy; Phillips, Paul Anderson
(74) Phillips Ormonde Fitzpatrick

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(71) The Curators of the University of Missouri
(11) AU-A-2008293722
(21) 2008293722 **(22)** 20.08.2008
(54) Noise cancellation in fourier transform spectrophotometry
(51) Int. Cl.
G01J 3/42 (2006.01)
(87) WO2009/029446
(31) 11/845,580 **(32)** 27.08.07 **(33)** US
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(71) The Gillette Company
(11) AU-A-2008291730
(21) 2008291730 **(22)** 21.08.2008
(54) Safety razor with improved guard
(51) Int. Cl.
B26B 21/22 (2006.01)
B26B 21/40 (2006.01)
(87) WO2009/027907
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(43) 05.03.2009
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(51) Int. Cl.
B26B 21/22 (2006.01)
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(72) Prudden Jr., John; Jolley, William Owen; Bruno, Michael Hal
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C12Q 1/68 (2006.01)
A61K 31/7088 (2006.01)
A61P 35/00 (2006.01)
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(31) 60/967,663 **(32)** 06.09.07 **(33)** US
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C07D 209/14 (2006.01)
A61K 31/496 (2006.01)
C07D 213/38 (2006.01)
C07D 231/12 (2006.01)
C07D 277/28 (2006.01)
C07D 295/13 (2006.01)
C07D 307/52 (2006.01)
C07D 307/81 (2006.01)
C07D 317/58 (2006.01)
C07D 333/20 (2006.01)
C07D 333/58 (2006.01)
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(51) Int. Cl.
A61K 31/4965 (2006.01)
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(31) 60/953,796 **(32)** 03.08.07 **(33)** US
(43) 12.02.2009
(72) Gorin, Fredric A.; Nantz, Michael H.
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A61K 39/395 (2006.01)
G01N 33/53 (2006.01)
G01N 33/567 (2006.01)
(87) WO2009/065054
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61/019,747 08.01.08 US
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(72) Ravetch, Jeffrey; Fukuyama, Hidehiro
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C12N 15/74 (2006.01)
C07K 14/02 (2006.01)
C07K 14/195 (2006.01)
C12N 1/21 (2006.01)
C12N 15/00 (2006.01)
C12P 21/06 (2006.01)
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(31) 60/971,412 **(32)** 11.09.07 **(33)** US
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C07K 14/705 (2006.01)
A61K 39/385 (2006.01)
C07K 16/46 (2006.01)
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C23F 13/00 (2006.01)
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C07F 9/572 (2006.01)
A61K 31/6615 (2006.01)
A61K 31/675 (2006.01)
A61P 35/00 (2006.01)
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A61K 8/97 (2006.01)
B01J 20/04 (2006.01)
B01J 20/20 (2006.01)
B01J 20/24 (2006.01)
B09C 1/00 (2006.01)
B09C 1/10 (2006.01)
C01B 31/02 (2006.01)
C02F 1/28 (2006.01)
C05D 9/00 (2006.01)
C05F 9/00 (2006.01)
C05F 11/00 (2006.01)
C09K 17/02 (2006.01)
C10B 53/02 (2006.01)
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C07D 277/82 (2006.01)
A61K 31/428 (2006.01)
A61P 19/02 (2006.01)
A61P 29/00 (2006.01)
A61P 35/02 (2006.01)
A61P 37/06 (2006.01)
C07D 417/12 (2006.01)
C07D 417/14 (2006.01)
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C12Q 1/68 (2006.01)
G01N 33/53 (2006.01)
G06F 19/00 (2006.01)
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B01D 15/14 (2006.01)
B01D 15/18 (2006.01)
F16K 11/074 (2006.01)
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B65D 6/18 (2006.01)
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(51) Int. Cl.
A61F 5/02 (2006.01)
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(51) Int. Cl.
B29C 45/50 (2006.01)
B22D 17/20 (2006.01)
B22D 17/32 (2006.01)
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(31) 2007-205420 **(32)** 07.08.07 **(33)** JP
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H01M 2/14 (2006.01)
(87) WO2009/015325
(31) 12/179,554 **(32)** 24.07.08 **(33)** US
60/951,903 25.07.07 US
(43) 29.01.2009
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H01M 8/00 (2006.01)
(87) WO2009/015328

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12/179,578 24.07.08 US
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H01M 8/18 (2006.01)
(87) WO2009/015331
(31) 60/951,925 **(32)** 25.07.07 **(33)** US
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H04N 5/228 (2006.01)
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29/322,219 30.07.08 US
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(21) 2008289051 **(22)** 19.08.2008
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G06F 11/32 (2006.01)
G06F 3/06 (2006.01)
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60/957,601 23.08.07 US
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A23F 3/14 (2006.01)
A23F 3/16 (2006.01)
A23F 3/30 (2006.01)
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(31) 07116753.0 **(32)** 19.09.07 **(33)** EP
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(51) Int. Cl.
C11D 17/00 (2006.01)
C11D 3/37 (2006.01)
C11D 3/50 (2006.01)
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(51) Int. Cl.
G06Q 40/00 (2006.01)
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(51) Int. Cl.
A61K 35/30 (2006.01)
C12N 5/07 (2010.01)
C12N 5/071 (2010.01)
(87) WO2009/016262
(31) 200702167 **(32)** 02.08.07 **(33)** ES
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B01D 69/00 (2006.01)
B01D 71/00 (2006.01)
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(31) 11/941,445 **(32)** 16.11.07 **(33)** US
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A61P 25/08 (2006.01)
A61K 31/404 (2006.01)
C07D 209/08 (2006.01)
C07D 401/06 (2006.01)
(87) WO2009/023677
(31) 12/189,709 **(32)** 11.08.08 **(33)** US
60/964,526 13.08.07 US
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F16L 35/00 (2006.01)
(87) WO2009/032354
(31) 11/850,226 **(32)** 05.09.07 **(33)** US
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(54) Inhaler
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A61M 15/00 (2006.01)
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(31) 07113624.6 **(32)** 01.08.07 **(33)** EP
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(51) Int. Cl.
C12Q 1/68 (2006.01)
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(54) Method and system for implementing a dynamic verification value
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G06Q 20/00 (2006.01)
(87) WO2009/026365
(31) 12/194,402 **(32)** 19.08.08 **(33)** US
60/956,749 20.08.07 US
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B61F 19/04 (2006.01)
B60R 19/26 (2006.01)
B61D 15/06 (2006.01)
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(72) Mattschull, Volker
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G06F 3/033 (2006.01)
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C12C 11/00 (2006.01)
C12C 13/02 (2006.01)
C12C 13/10 (2006.01)
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(31) 564137 **(32)** 10.12.07 **(33)** NZ
560271 01.08.07 NZ
(43) 05.02.2009
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(74) Shelston IP

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A61B 17/70 (2006.01)
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(43) 12.03.2009
(72) Farris, Robert A.; May, Jason M.
(74) FB Rice & Co

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A61B 17/80 (2006.01)
A61F 2/44 (2006.01)
(87) WO2009/042370
(31) 11/863,969 **(32)** 28.09.07 **(33)** US
(43) 02.04.2009
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(54) Intervertebral implant
(51) Int. Cl.
A61F 2/44 (2006.01)
(87) WO2009/042375
(31) 11/862,685 **(32)** 27.09.07 **(33)** US
(43) 02.04.2009
(72) Armstrong, William D.; Dryer, Randall F.; White, Stephen E.
(74) FB Rice & Co

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(71) Welch Allyn, Inc.
(11) AU-A-2008293684
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(54) Digital otoscope
(51) Int. Cl.
A61B 1/227 (2006.01)
(87) WO2009/029504
(31) 11/845,512 **(32)** 27.08.07 **(33)** US
(43) 05.03.2009
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(54) Wnt pathway stimulation in reprogramming somatic cells
(51) Int. Cl.
C12N 5/02 (2006.01)
A01N 63/00 (2006.01)
A61K 48/00 (2006.01)
(87) WO2009/032194
(31) 60/967,028 **(32)** 31.08.07 **(33)** US
61/188,190 06.08.08 US
(43) 12.03.2009
(72) Jaenisch, Rudolf; Young, Richard A.; Foreman, Ruth; Marson, Alexander; Chevalier, Brett
(74) Shelston IP

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(11) AU-A-2008289258
(21) 2008289258 **(22)** 13.08.2008
(54) Suture lock
(51) Int. Cl.
A61B 17/04 (2006.01)
(87) WO2009/026078
(31) 60/956,575 **(32)** 17.08.07 **(33)** US
(43) 26.02.2009
(72) Hashiba, Kiyoshi; Jones, Brian K.
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(11) AU-A-2008321669
(21) 2008321669 **(22)** 03.09.2008
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(51) Int. Cl.
F16B 37/00 (2006.01)
F16B 25/00 (2006.01)
F16B 35/04 (2006.01)
(87) WO2009/064158
(31) PI20071999 **(32)** 15.11.07 **(33)** MY
(43) 22.05.2009
(72) Wong, Chiang Heng
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(11) AU-A-2009278057
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(54) Heat sink for LED light source and LED light source
(51) Int. Cl.
F21V 29/00 (2006.01)
(31) 200810216040.4 **(32)** 05.09.08 **(33)** CN
(43) 25.03.2010
(72) Wong, Pun
(74) Shelston IP

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(11) AU-A-2007358713
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(54) A sun following sensor unit and a sun following apparatus having the same therewith
(51) Int. Cl.
F24J 2/38 (2006.01)
(87) WO2009/031726
(31) 10-2007-0088774 **(32)** 03.09.07 **(33)** KR
(43) 12.03.2009
(72) Yoon, Joo-Pyoung
(74) Watermark Patent & Trademark Attorneys

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(71) Zimmer Orthopaedic Surgical Products, Inc.
(11) AU-A-2008293767
(21) 2008293767 **(22)** 04.08.2008
(54) Tourniquet cuff with a tightness indicator
(51) Int. Cl.
A61B 17/135 (2006.01)
(87) WO2009/029394

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(31) 60/968,652 **(32)** 29.08.07 **(33)** US
(43) 05.03.2009
(72) Heston, Brian K.
(74) Spruson & Ferguson

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	Centre Hospitalier Universitaire de Rennes
2008292235	BASF SE
2008292236	Ablynx N.V.
2008292238	BASF SE
2008292356	Nippon Oil Corporation
2008292607	Sumitomo Metal Industries, Ltd.
2008292613	Cytopathfinder, Inc.
2008292779	Microsoft Corporation
2008292781	Microsoft Corporation
2008292817	Toso, V.
2008292822	Nextivity, Inc.
2008292827	Millennium Inorganic Chemicals, Inc.
2008292840	Syncro Medical Innovations, Inc.
2008292847	SpectraSensors, Inc.
2008292910	The United States of America, as represented by the Sectretary, Department of Health and Human Services
2008292913	Curedm, Inc.
2008292920	Millennium Inorganic Chemicals, Inc.
2008293037	Daikin Industries, Ltd.
2008293038	MethylGene Inc.
2008293101	De Vries, H.
2008293309	Sumitomo Chemical Company, Limited
2008293402	Scientific Games International, Inc.
2008293451	Dixie-Narco, Inc.
2008293452	Axenic Dental, Inc.
2008293458	Texas Tech University System
2008293476	Linde LLC
2008293504	Longhorn Vaccines & Diagnostics LLC
2008293684	Welch Allyn, Inc.
2008293708	Mars, Incorporated
2008293722	The Curators of the University of Missouri
2008293734	Spinal Elements, Inc.
2008293767	Zimmer Orthopaedic Surgical Products, Inc.
2008293880	NCH Corporation ; Boesch-Deveze, W.
2008294163	SANDEN CORPORATION
2008294404	Bastos Ribeiro, R.
2008294413	Novartis AG
2008294472	Societe de Prospection et d'Inventions Techniques-Spit
2008294535	Biolipox AB
2008294551	Halliburton Energy Services, Inc.
2008294615	Reckitt Benckiser Inc.
2008294624	Gro-Group International Limited
2008294728	Voith Patent GmbH
2008294826	BASF SE
2008294874	AMADEUS s.a.s.
2008294875	AMADEUS s.a.s.
2008294980	Nippon Steel Corporation
2008295059	Syngenta Participations AG
2008295145	Sanofi-Aventis
2008295256	SMS Siemag AG
2008295425	Palfinger AG
2008295441	Queensland University of Technology
2008295540	Corning Cable Systems LLC
2008295643	Aktiebolaget Electrolux
2008295747	LG Electronics Inc.
2008295964	National Printing Bureau, Incorporated Administrative Agency
2008296022	The Ohio State University Research Foundation
2008296038	Third Wave Technologies, Inc.
2008296143	The Trustees of Princeton University ; Applied Semi-conductor International Ltd.
2008296188	Reynolds Consumer Products, Inc.
2008296191	Lifefactory, Inc
2008296209	Smith & Nephew, Inc.
2008296237	Smith & Nephew Orthopaedics AG
2008296239	The Coca-Cola Company
2008296257	The Coca-Cola Company
2008296266	The Coca-Cola Company
2008296269	The Coca-Cola Company
2008296270	The Coca-Cola Company
2008296274	The Coca-Cola Company
2008296294	Warsaw Orthopedic, Inc.
2008296297	The Cola-Cola Company
2008296298	The Cola-Cola Company
2008296300	The Coca-Cola Company
2008296345	Deere & Company
2008296361	Compugen, Ltd.
2008296403	Delmar Systems, Inc.
2008296440	Gala Industries, Inc.
2008296471	The Coca-Cola Company
2008296501	Sanofi-Aventis
2008296532	McNeil-PPC, Inc.
2008296538	Sanofi-Aventis
2008296623	Nike International, Ltd.
2008296761	Colgate-Palmolive Company
2008296801	VAM USA, LLC
2008296820	Money Savvy Generation, LLC
2008296855	Emerson Electric Co.
2008296903	Dow Pharmaceutical Sciences, Inc.
2008296905	Alpharma, Inc.
2008296948	Galderma Laboratories L.P.
2008296971	Nanotherapeutics, Inc.
2008296974	Merck Sharp & Dohme Corp.
2008296978	Consert Inc.
2008296995	Cabot Corporation
2008296997	Idenix Pharmaceuticals, Inc.
2008297011	Whitehead Institute for Biomedical Research
2008297025	Suntory Holdings Limited
2008297026	Suntory Holdings Limited
2008297027	Suntory Holdings Limited
2008297038	Duran Von Arx, J.
2008297070	Probiodrug AG
2008297074	Nestec S.A.
2008297093	Institut Pasteur ; Institut National de la Sante et de la Recherche Medicale (INSERM)
2008297220	Shell Internationale Research Maatschappij B.V.
2008297471	The Board of Trustees of the Leland Stanford Junior University
2008297527	Bayer CropScience AG
2008297805	Sumitomo Chemical Company, Limited
2008297932	Leonhard Kurz Stiftung & Co. KG ; PolyIC GmbH & Co. KG
2008298079	HORN GMBH & CO. KG
2008298147	SMS Siemag AG
2008298279	Daikin Industries, Ltd.
2008298299	Ishida Co., Ltd.
2008298533	Citrix Systems, Inc.
2008298602	Digital Fountain, Inc.
2008298603	Adimab, Inc.
2008298827	Kabushiki Kaisha Sangi
2008298904	Amgen Inc.
2008298938	Synthes GmbH
2008298943	Gilead Sciences, Inc.
2008298953	Sapphire Energy, Inc.
2008299020	The Scripps Research Institute ; Sapphire Energy, Inc.
2008299029	TetraVitae Bioscience, Inc.
2008299042	Omega Flex, Inc.
2008299102	Janssen Pharmaceutica N.V. ; Mitsubishi Tanabe Pharma Corporation
2008299119	Banyan Energy, Inc
2008299124	Frey II, W. ; Danielyan, L. ; Gleiter, C.
2008299140	Baker Hughes Incorporated
2008299242	Carttronics, LLC
2008299487	Spal Automotive S.r.l.
2008299666	BAE SYSTEMS plc
2008299667	BAE SYSTEMS plc
2008299699	Reckitt Benckiser Inc.
2008299721	Astrazeneca AB
2008299766	DexCom, Inc.
2008299993	Theravance, Inc.
2008300013	QLT Plug Delivery, Inc
2008300390	Reckitt Benckiser Inc.
2008300512	MariCap OY
2008300607	N.V. Organon
2008300668	Sygnis Bioscience GmbH & Co. KG
2008300783	Unilever PLC
2008300795	Unilever PLC
2008300875	Knorr-Bremse Systeme fur Schienenfahrzeuge GmbH
2008301203	Silverbrook Research Pty Ltd
2008301204	Silverbrook Research Pty Ltd
2008301206	Silverbrook Research Pty Ltd
2008301229	Commonwealth Scientific and Industrial Research Or-ganisation ; Australian Poultry CRC Pty Ltd
2008301897	Janssen Pharmaceutica N.V.

PCT applications which have entered the National Phase - Numerical Index cont'd

2008301951	Bayer CropScience LP
2008302053	Pfizer Inc.
2008302144	Ab Initio Technology LLC
2008302149	Fresenius Medical Care Holdings, Inc.
2008302306	Fresenius Medical Care Holdings, Inc.
2008302317	SurgRx, Inc.
2008302460	McNeil-PPC, Inc.
2008302504	Rohm and Haas Company
2008302542	Tescom Corporation
2008302574	PEPSICO, INC.
2008302630	Tescom Corporation
2008303049	Gekko Systems Pty Ltd
2008303389	H Plus Energy Limited
2008303794	Ethicon, Inc.
2008303912	SMS Siemag AG
2008303962	Leica Geosystems AG
2008304386	EDSA Micro Corporation
2008304451	SIDKAR TECHNOLOGIES, INC.
2008304566	EDSA Micro Corporation
2008304627	Cytyc Corporation
2008305083	Sharp Kabushiki Kaisha
2008305096	Japan Oil, Gas and Metals National Corporation
2008305294	Array Biopharma Inc.
2008305400	Warsaw Orthopedic, Inc.
2008305405	Warsaw Orthopedic, Inc.
2008305439	AGA Medical Corporation
2008305666	Epiphany Biosciences, Inc.
2008305672	Owens-Brockway Glass Container Inc.
2008306591	COMPACT GTL PLC
2008307127	Compumedics Medical Innovation Pty Ltd
2008307261	Cytyc Corporation
2008307317	The Boeing Company
2008307381	GENOMATICA, INC.
2008307471	Sapphire Energy, Inc.
2008307979	Hitachi Koki Co., Ltd.
2008308246	NTT DoCoMo, Inc.
2008308642	E.I. DU PONT DE NEMOURS AND COMPANY
2008308907	E.I. DU PONT DE NEMOURS AND COMPANY
2008309486	Laboratoire Precilens
2008309828	BASF SE
2008311099	E. I. DU PONT DE NEMOURS AND COMPANY
2008313822	FLSmidth A/S
2008314208	Allflex Europe SAS
2008314218	Syngenta Participations AG
2008320668	FOSBEL INTELLECTUAL LIMITED
2008321669	Wong, C.
2008321997	Daikin Industries, Ltd.
2008322523	The Rockefeller University
2008324081	Centre National D'Etudes Spatiales (C.N.E.S.)
2008324971	Robert Bosch GmbH
2008326654	UOP LLC
2008327506	Artus, R.
2008328541	Hansen Transmissions International, naamloze vennootschap
2008336261	Bremhorst, J.
2008337243	UNIMARKET HOLDINGS LIMITED
2008338937	RAYTHEON COMPANY
2008340168	Sandvik Mining and Construction RSA (Pty) Ltd
2009208188	Martor KG
2009217425	GlaxoSmithKline Biologicals S.A. ; Utrecht University
2009237384	Tongaat Hulett Limited
2009251226	General Electric Company
2009253747	Biggs, P.
2009255741	Steelcase Inc.
2009258164	Steelcase Inc.
2009264850	Sony Corporation ; Panasonic Corporation
2009278057	Wong, P.

IPC Index

PCT applications which have entered the National Phase - IPC Index cont'd

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2008292356

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A62B 9/-

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A63B 53/-

2008296623

A63F 3/-

2008293402

A63F 9/-

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2009237384

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2008286748

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PCT applications which have entered the National Phase - IPC Index cont'd

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PCT applications which have entered the National Phase - IPC Index cont'd

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PCT applications which have entered the National Phase - IPC Index cont'd

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H01Q 7/-

2008296209

H02G 9/-

2008285230

H02J 9/-

2008284151

H02K 1/-

2009253747

H02K 7/-

2009253747

H02P 6/-

2008299487

H03B 5/-

2008285767

H04B 7/-

2008324081

H04J 1/-

2008308246

H04J 11/-

2008308246

H04L 25/-

2008292822

H04L 27/-

2008292822
2008324081

H04L 9/-

2008327506

H04N 5/-

2008282223

H04N 7/-

2008283109

H04R 25/-

2008289428

H04W 72/-

2008289998

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(71) 3F Therapeutics, Inc.
(11) AU-B-2006275808
(21) 2006275808 **(22)** 26.07.2006
(54) Methods and systems for cardiac valve delivery
(51) Int. Cl.
A61F 2/24 (2006.01)
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(31) 60/702,892 **(32)** 27.07.05 **(33)** US
60/717,879 16.09.05 US
60/734,429 08.11.05 US
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(43) 08.02.2007
(44) 25.03.2010
(72) Bergheim, Bjarne; Dumontelle, Jeff; Cuevas, Walter
(74) FB Rice & Co

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(11) AU-B-2005282832
(21) 2005282832 **(22)** 26.08.2005
(54) Improved apparatus and method for control of high intensity discharge lighting
(51) Int. Cl.
G05F 1/00 (2006.01)
H05B 37/02 (2006.01)
H05B 39/04 (2006.01)
H05B 41/36 (2006.01)
(87) WO2006/028781
(31) 60/606,972 **(32)** 02.09.04 **(33)** US
(43) 16.03.2006
(44) 25.03.2010
(72) Archdekin, James M.; Benas, Robin Charles
(74) Shelston IP

Aker Kvaerner Subsea AS see Aker Marine Contractors AS
(21) 2004289926

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(11) AU-B-2004289926
(21) 2004289926 **(22)** 10.11.2004
(54) Vertical installation of an elongated process unit
(51) Int. Cl.
E21B 43/013 (2006.01)
(87) WO2005/047642
(31) 2003 5034 **(32)** 13.11.03 **(33)** NO
(43) 26.05.2005
(44) 25.03.2010
(72) Hilditch, Michael; Vasstrand, Knut
(74) Pegasus IP

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(11) AU-B-2006262963
(21) 2006262963 **(22)** 30.05.2006
(54) Method of preparing microfibrillar polysaccharide
(51) Int. Cl.
C08B 1/00 (2006.01)
(87) WO2007/001229
(31) 05105764.4 **(32)** 28.06.05 **(33)** EP
(43) 04.01.2007
(44) 25.03.2010
(72) Heijnesson-Hulten, Anette
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(11) AU-B-2005203742
(21) 2005203742 **(22)** 19.08.2005
(54) Conflict monitor for road traffic control equipment
(51) Int. Cl.
G08G 1/097 (2006.01)
H05B 37/00 (2006.01)
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(43) 09.03.2006
(44) 25.03.2010
(72) Young, Malcolm
(74) Shelston IP

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(21) 2005270741 **(22)** 08.08.2005
(54) Water purifier
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C02F 1/14 (2006.01)
C02F 1/04 (2006.01)
(87) WO2006/015433
(31) 2004 904 466 **(32)** 09.08.04 **(33)** AU
(43) 16.02.2006
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(74) Peter Maxwell & Associates

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(51) Int. Cl.
A61K 9/00 (2006.01)
A61K 9/20 (2006.01)
A61K 31/00 (2006.01)
A61K 31/404 (2006.01)
(87) WO2005/112884
(31) 10/837,361 **(32)** 30.04.04 **(33)** US
(43) 01.12.2005
(44) 25.03.2010
(72) Sarrazin, Christian; Boix, Michele; Rossi, Elisabeth; Hughes, Patrick M.
(74) Davies Collison Cave

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A61K 31/4745 (2006.01)
A61P 3/10 (2006.01)
A61P 15/00 (2006.01)
A61P 25/00 (2006.01)
A61P 35/00 (2006.01)
C07D 471/04 (2006.01)
(87) WO2005/003129
(31) 03014424.0 **(32)** 30.06.03 **(33)** EP
(43) 13.01.2005
(44) 25.03.2010
(72) Maier, Thomas; Graedler, Ulrich; Braunger, Juergen; Quintini, Gianluca; Ciapetti, Paola; Wermuth, Camille Georges; Gimmnich, Petra; Baer, Thomas; Contreras, Jean-Marie; Vennemann, Matthias
(74) Griffith Hack

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(11) AU-B-2004250256
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C12Q 1/00 (2006.01)
C12Q 1/48 (2006.01)
C12Q 1/68 (2006.01)
C12Q 1/70 (2006.01)
G01N 33/53 (2006.01)
G01N 33/543 (2006.01)
G01N 33/577 (2006.01)
(87) WO2004/113556
(31) 60/480,587 **(32)** 20.06.03 **(33)** US
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(44) 25.03.2010
(72) Treiver, Daniel Kelly; Lockhart, David J.; Zarrinkar, Patrick Parvis
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(11) AU-B-2006302820
(21) 2006302820 **(22)** 16.05.2006
(54) Biological indicator
(51) Int. Cl.
G01N 33/543 (2006.01)
C12Q 1/22 (2006.01)
(87) WO2007/046865
(31) 11/135,719 **(32)** 24.05.05 **(33)** US
(43) 26.04.2007
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(72) Cregger, Tricia A.; Duda, Mark J.; Franciskovich, Phillip P.; Bellow, Robert E. Jr.
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(54) Mobile data and software update system and method
(51) Int. Cl.
G06F 7/00 (2006.01)
G06F 17/30 (2006.01)
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(31) 60/442,810 **(32)** 23.01.03 **(33)** US
60/461,588 07.04.03 US
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(11) AU-B-2006336038
(21) 2006336038 **(22)** 19.12.2006
(54) Sheet pile in double-T form
(51) Int. Cl.
E02D 5/04 (2006.01)
(87) WO2007/082619
(31) 10 2006 002 241.6 **(32)** 17.01.06 **(33)** DE
91 227 09.03.06 LU
(43) 26.07.2007
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(72) Hermes, Aloyse
(74) Callinans

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(11) AU-B-2004241740
(21) 2004241740 **(22)** 24.05.2004
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(51) Int. Cl.
A61L 27/12 (2006.01)
A61L 27/42 (2006.01)
A61L 27/56 (2006.01)
A61L 27/58 (2006.01)
(87) WO2004/103421
(31) 103 23 079.3 **(32)** 22.05.03 **(33)** DE
103 38 634.3 22.08.03 DE
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(72) Gerber, Thomas
(74) Shelston IP

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C07D 213/80 (2006.01)
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(54) Satellite communications systems, components and methods for operating shared satellite gateways
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H04B 7/185 (2006.01)
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(11) AU-B-2004313811
(21) 2004313811 **(22)** 29.11.2004
(54) Holding wrench for rock drilling machine and rock drilling machine including such a holding wrench
(51) Int. Cl.
E21C 25/58 (2006.01)
(87) WO2005/068772
(31) 0400057-6 **(32)** 14.01.04 **(33)** SE
(43) 28.07.2005
(44) 25.03.2010
(72) Kampe, Ulf
(74) Watermark Patent & Trademark Attorneys

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(11) AU-B-2004220101
(21) 2004220101 **(22)** 09.03.2004
(54) Reusable closures for packages and methods of making and using the same
(51) Int. Cl.
B32B 7/04 (2006.01)
B32B 7/10 (2006.01)
B32B 7/12 (2006.01)
B32B 7/14 (2006.01)
B32B 27/10 (2006.01)
B65D 1/00 (2006.01)
C09J 7/02 (2006.01)
C09J 11/08 (2006.01)
(87) WO2004/080826
(31) 60/454,192 **(32)** 12.03.03 **(33)** US
(43) 23.09.2004
(44) 25.03.2010
(72) Van Driesten, Sjoerd Johannes
(74) Callinans

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(11) AU-B-2005295758
(21) 2005295758 **(22)** 14.10.2005
(54) DMT symbol repetition in the presence of impulse noise
(51) Int. Cl.
H04L 1/08 (2006.01)
H04L 1/00 (2006.01)
H04L 27/26 (2006.01)
(87) WO2006/044533
(31) 60/619,618 **(32)** 15.10.04 **(33)** US
(43) 27.04.2006
(44) 25.03.2010
(72) Tzannes, Marcos C.
(74) Pizzeys

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(11) AU-B-2004229217
(21) 2004229217 **(22)** 15.04.2004
(54) Uptake of macromolecules
(51) Int. Cl.
A61K 9/14 (2006.01)
A61K 38/18 (2006.01)
A61K 38/23 (2006.01)
A61K 38/27 (2006.01)
A61K 38/28 (2006.01)
A61K 38/29 (2006.01)
(87) WO2004/091667
(31) 0308734.3 **(32)** 15.04.03 **(33)** GB
(43) 28.10.2004
(44) 25.03.2010
(72) New, Roger R. C.
(74) Davies Collison Cave

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(11) AU-B-2003275309
(21) 2003275309 **(22)** 01.10.2003
(54) Cementing through a side pocket mandrel
(51) Int. Cl.
E21B 23/03 (2006.01)
E21B 21/10 (2006.01)
E21B 33/16 (2006.01)
E21B 43/12 (2006.01)
(87) WO2004/031529
(31) 60/415,393 **(32)** 02.10.02 **(33)** US
(43) 23.04.2004
(44) 25.03.2010
(72) Holt, James H. Jr.; Lewis, Edwin K.; Kritzler, James H.; Chapman, Walter R.; Osselburn, Jeffery L.
(74) Freehills Patent & Trade Mark Attorneys

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(11) AU-B-2003218790
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(54) Fungicidal mixtures
(51) Int. Cl.
A01N 43/42 (2006.01)
A01N 33/18 (2006.01)
A01N 35/04 (2006.01)
A01N 35/06 (2006.01)
A01N 37/34 (2006.01)
A01N 37/46 (2006.01)
A01N 37/52 (2006.01)
A01N 43/24 (2006.01)
A01N 43/28 (2006.01)
A01N 43/32 (2006.01)
A01N 43/36 (2006.01)
A01N 43/40 (2006.01)
A01N 43/50 (2006.01)
A01N 43/653 (2006.01)
A01N 43/78 (2006.01)
A01N 47/14 (2006.01)
A01N 47/18 (2006.01)
A01N 47/34 (2006.01)
(87) WO2003/090538
(31) 102 12 704.2 **(32)** 21.03.02 **(33)** DE
(43) 10.11.2003
(44) 25.03.2010
(72) Stierl, Reinhard; Schofl, Ulrich; Schelberger, Klaus; Ammermann, Eberhard; Lorenz, Gisela; Strathmann, Siegfried; Christen, Thomas
(74) Watermark Patent & Trademark Attorneys

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(71) BD Medical Products Pte. Ltd.
(11) AU-B-2005246999
(21) 2005246999 **(22)** 19.12.2005
(54) Flashback blood collection needle
(51) Int. Cl.
A61M 5/32 (2006.01)
(43) 02.02.2006
(44) 25.03.2010
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(72) Leong, Alvin Tan Chee
(74) FB Rice & Co

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(71) Becton, Dickinson and Company
(11) AU-B-2005201133
(21) 2005201133 **(22)** 16.03.2005
(54) Surgical scalpel assembly
(51) Int. Cl.
A61B 17/3211 (2006.01)
A61B 17/32 (2006.01)
(31) 10/805775 **(32)** 22.03.04 **(33)** US
(43) 06.10.2005
(44) 25.03.2010
(72) Cindrich, Christopher N
(74) FB Rice & Co

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(71) Black & Decker, Inc.
(11) AU-B-2005229724
(21) 2005229724 **(22)** 04.11.2005
(54) Knuckle joint and release/locking mechanism therefor
(51) Int. Cl.
B25F 5/02 (2006.01)
B25G 1/06 (2006.01)
F16C 11/10 (2006.01)
(31) 04256943.4 **(32)** 19.11.04 **(33)** EP
(43) 08.06.2006
(44) 25.03.2010
(72) Roberts, Ana-Maria
(74) Davies Collison Cave

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(11) AU-B-2004259219
(21) 2004259219 **(22)** 15.07.2004
(54) Rapid and accurate detection of bone quality using ultrasound critical angle reflectometry
(51) Int. Cl.
A61B 8/08 (2006.01)
(87) WO2005/009245
(31) 60/487,334 **(32)** 15.07.03 **(33)** US
10/630,330 30.07.03 US
(43) 03.02.2005
(44) 25.03.2010
(72) Antich, Peter P.; Lewis, Matthew A.; Smith, Billy; Richer, Edmond; Pak, Charles Y. C.
(74) Pizzeys

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(54) A novel peptide involved in energy homeostasis
(51) Int. Cl.
A61K 38/17 (2006.01)
C07K 14/435 (2006.01)
C07K 16/18 (2006.01)
C12N 1/13 (2006.01)
C12N 5/10 (2006.01)
C12N 15/01 (2006.01)
C12N 15/12 (2006.01)
C12N 15/63 (2006.01)
(87) WO2007/019426
(31) 60/705,940 **(32)** 05.08.05 **(33)** US
(43) 15.02.2007
(44) 25.03.2010
(72) Trevaskis, James L.; Butler, Andrew A.
(74) Griffith Hack

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(54) Valve-operating lever
(51) Int. Cl.
F01L 1/12 (2006.01)
F01L 1/18 (2006.01)
(87) WO2005/024190
(31) 10/646,197 **(32)** 22.08.03 **(33)** US
(43) 17.03.2005
(44) 25.03.2010
(72) Santi, John D.
(74) Callinans

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(11) AU-B-2004216458
(21) 2004216458 **(22)** 01.03.2004
(54) Pharmaceutical compositions for nasal delivery
(51) Int. Cl.
A61K 31/48 (2006.01)
A61K 9/00 (2006.01)
A61K 9/19 (2006.01)
A61K 31/485 (2006.01)
A61K 47/26 (2006.01)
(87) WO2004/075824
(31) 0304636.4 **(32)** 28.02.03 **(33)** GB
(43) 10.09.2004
(44) 25.03.2010
(72) Merkus, Franciscus W. H.; Adams, Gerald; Lambert, Peter Alan
(74) Phillips Ormonde Fitzpatrick

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(54) An optical fiber cable and blowing installation technique
(51) Int. Cl.
G02B 6/44 (2006.01)
(87) WO2004/079424
(31) 0305789.0 **(32)** 13.03.03 **(33)** GB
0305276.8 07.03.03 GB
(43) 16.09.2004
(44) 25.03.2010
(72) Medlen, Nicholas John; Rabone, Neil Howard; Mayhew, Andrew John; Roberts, Simon Christopher
(74) Shelston IP

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(21) 2005220984 **(22)** 08.03.2005
(54) Arrangement for laying cables
(51) Int. Cl.
H02G 1/08 (2006.01)
G02B 6/50 (2006.01)
(87) WO2005/088795
(31) A 1081/2004 **(32)** 24.06.04 **(33)** AT
A 1801/2004 25.10.04 AT
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(43) 22.09.2005
(44) 25.03.2010
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(74) Pizzeys

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(71) Cadbury Adams USA LLC
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(21) 2005292234 **(22)** 30.09.2005
(54) Encapsulated compositions and methods of preparation
(51) Int. Cl.
A23L 1/236 (2006.01)
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(87) WO2006/039651
(31) 10/955,225 **(32)** 30.09.04 **(33)** US
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(74) Griffith Hack

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(11) AU-B-2005327104
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(54) Stable tooth whitening gum with reactive ingredients
(51) Int. Cl.
A61K 8/20 (2006.01)
A61K 8/22 (2006.01)
A61K 8/30 (2006.01)
A61K 8/38 (2006.01)
A61K 9/68 (2006.01)
(87) WO2006/086061
(31) 11/052,672 **(32)** 07.02.05 **(33)** US
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(11) AU-B-2004240262
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(51) Int. Cl.
B64F 1/20 (2006.01)
(31) MI2003A 002565 **(32)** 22.12.03 **(33)** IT
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(74) Phillips Ormonde Fitzpatrick

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(51) Int. Cl.
A61K 31/404 (2006.01)
C07D 209/12 (2006.01)
(87) WO2004/056361
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(44) 25.03.2010
(72) Berry, Jane Marie; Stevens, Malcolm Francis Graham; Poole, Tracey Dawn; Westwell, Andrew David; Wells, Geoffrey
(74) FB Rice & Co

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(11) AU-B-2004201256
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(54) Stacked Photovoltaic Element and Method for Producing the Same
(51) Int. Cl.

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H01L 31/06 (2006.01)
H01L 31/068 (2006.01)
H01L 31/075 (2006.01)
H01L 31/18 (2006.01)
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(72) Nakamura, Tetsuro; Higashikawa, Makoto; Matsuda, Koichi
(74) Spruson & Ferguson

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(71) Canon Kabushiki Kaisha
(11) AU-B-2006252190
(21) 2006252190 **(22)** 21.12.2006
(54) Collection browser for image items with multi-valued attributes
(51) Int. Cl.
G06F 17/30 (2006.01)
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(71) CAO Group, Inc.
(11) AU-B-2007234351
(21) 2007234351 **(22)** 04.04.2007
(54) Semiconductor light source for illuminating a physical space including a 3-dimensional lead frame
(51) Int. Cl.
H01L 33/00 (2006.01)
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(72) Cao, Densen
(74) Cullens Patent and Trade Mark Attorneys

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(21) 2005244255

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(21) 2005244255 **(22)** 07.04.2005
(54) Foul-resistant condenser using microchannel tubing
(51) Int. Cl.
A47F 3/04 (2006.01)
F25B 39/04 (2006.01)
F25D 21/12 (2006.01)
F28D 1/053 (2006.01)
F28F 1/32 (2006.01)
F28F 9/02 (2006.01)
F25D 17/06 (2006.01)
F25D 21/14 (2006.01)
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(11) AU-B-2006270022
(21) 2006270022 **(22)** 18.07.2006
(54) RFID tags for pallets and cartons and system for attaching same
(51) Int. Cl.
G06K 19/077 (2006.01)
(87) WO2007/011954
(31) 60/700,431 **(32)** 19.07.05 **(33)** US
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(74) Cullens Patent and Trade Mark Attorneys

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(11) AU-B-2005316780
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A61L 27/00 (2006.01)
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C08L 23/04 (2006.01)
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H04N 7/173 (2006.01)
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C03C 17/00 (2006.01)
C08K 3/00 (2006.01)
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C07D 231/44 (2006.01)
A61K 31/415 (2006.01)
A61K 31/4155 (2006.01)
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A61K 31/445 (2006.01)
A61K 31/4709 (2006.01)
A61K 31/4725 (2006.01)
A61P 3/00 (2006.01)
C07D 401/04 (2006.01)
C07D 401/12 (2006.01)
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A62C 2/06 (2006.01)
A62D 5/00 (2006.01)
B32B 27/12 (2006.01)
C09K 21/10 (2006.01)
E04H 9/00 (2006.01)
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E21B 43/24 (2006.01)
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A61K 9/36 (2006.01)
A61K 9/50 (2006.01)
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B09B 3/00 (2006.01)
B29B 17/02 (2006.01)
C22B 7/00 (2006.01)
C22B 13/02 (2006.01)
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B32B 27/00 (2006.01)
B65D 51/20 (2006.01)
B65D 53/04 (2006.01)
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A01K 67/027 (2006.01)
A01K 67/033 (2006.01)
C12N 1/15 (2006.01)
C12N 1/19 (2006.01)
C12N 1/21 (2006.01)
C12N 5/10 (2006.01)
C12N 9/16 (2006.01)
C12N 9/22 (2006.01)
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G01N 21/00 (2006.01)
A61B 5/00 (2006.01)
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B01L 3/00 (2006.01)
B65D 81/00 (2006.01)
C12M 1/00 (2006.01)
G01N 15/06 (2006.01)
G01N 21/03 (2006.01)
G01N 21/75 (2006.01)
G01N 21/77 (2006.01)
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B01J 8/06 (2006.01)
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E05C 3/14 (2006.01)
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E05C 1/10 (2006.01)
E05C 3/06 (2006.01)
E05C 3/16 (2006.01)
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C07D 231/56 (2006.01)
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B65G 47/38 (2006.01)
B65G 47/42 (2006.01)
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B65G 47/48 (2006.01)
B65G 47/50 (2006.01)
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H02K 33/18 (2006.01)
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H01R 13/58 (2006.01)
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H01R 13/74 (2006.01)
H01R 25/00 (2006.01)
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B41J 2/01 (2006.01)
G06F 11/00 (2006.01)
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G06K 15/00 (2006.01)
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F25D 17/04 (2006.01)
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D06F 39/14 (2006.01)
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E04F 17/02 (2006.01)
F24F 7/10 (2006.01)
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A61M 5/14 (2006.01)
A61M 5/315 (2006.01)
A61M 5/50 (2006.01)
A61M 31/00 (2006.01)
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A61B 1/015 (2006.01)
A61B 1/055 (2006.01)
A61B 1/06 (2006.01)
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B32B 25/04 (2006.01)
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C08J 5/18 (2006.01)
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A23J 3/00 (2006.01)
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A23K 1/00 (2006.01)
A23K 1/18 (2006.01)
A23K 3/00 (2006.01)
A23L 1/00 (2006.01)
A23L 1/03 (2006.01)
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A23P 1/02 (2006.01)
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G06F 3/02 (2006.01)
G06F 3/023 (2006.01)
H03M 11/10 (2006.01)
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G06F 9/04 (2006.01)
G06F 9/46 (2006.01)
G06F 12/14 (2006.01)
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A61P 15/00 (2006.01)
C07F 9/09 (2006.01)
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A61K 31/53 (2006.01)
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G05G 1/52 (2008.04)
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C12N 9/18 (2006.01)
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D04H 1/22 (2006.01)
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B65D 17/34 (2006.01)
B65D 47/10 (2006.01)
B65D 47/36 (2006.01)
B65D 51/20 (2006.01)
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E02F 3/40 (2006.01)
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B65D 55/06 (2006.01)
B65D 17/347 (2006.01)
B65D 43/02 (2006.01)
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H04W 36/08 (2009.01)
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H04W 92/14 (2009.01)
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A61K 9/48 (2006.01)
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A61K 47/10 (2006.01)
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H04L 12/56 (2006.01)
H04W 76/04 (2009.01)
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C02F 1/461 (2006.01)
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C02F 1/00 (2006.01)
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B65D 90/36 (2006.01)
B01J 19/00 (2006.01)
C08F 2/01 (2006.01)
F16K 17/00 (2006.01)
F16K 17/16 (2006.01)
F16K 27/00 (2006.01)
F16L 55/24 (2006.01)
F17C 13/06 (2006.01)
F17C 13/12 (2006.01)
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B01J 19/00 (2006.01)
C08F 2/01 (2006.01)
F16K 17/00 (2006.01)
F16K 17/16 (2006.01)
F16K 27/00 (2006.01)
F16L 55/24 (2006.01)
F17C 13/06 (2006.01)
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G01N 33/574 (2006.01)
A61K 38/00 (2006.01)
A61K 45/00 (2006.01)
A61K 48/00 (2006.01)
A61P 35/00 (2006.01)
C07K 14/47 (2006.01)
C07K 16/18 (2006.01)
C12M 1/00 (2006.01)
C12N 1/15 (2006.01)
C12N 1/19 (2006.01)
C12N 1/21 (2006.01)
C12N 5/10 (2006.01)
C12N 15/09 (2006.01)
C12Q 1/02 (2006.01)
C12Q 1/68 (2006.01)
G01N 33/15 (2006.01)
G01N 33/50 (2006.01)
G01N 33/53 (2006.01)
G01N 33/566 (2006.01)
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C09K 3/14 (2006.01)
C04B 35/107 (2006.01)
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H01M 8/24 (2006.01)
H01M 8/02 (2006.01)
H01M 8/12 (2006.01)
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B32B 17/02 (2006.01)
B32B 19/00 (2006.01)
D04H 1/70 (2006.01)
D04H 1/74 (2006.01)
E04B 1/80 (2006.01)
E04C 2/292 (2006.01)
E04B 1/76 (2006.01)
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C07D 249/18 (2006.01)
A61P 3/10 (2006.01)
C07D 401/06 (2006.01)
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C12Q 1/48 (2006.01)
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A61F 13/56 (2006.01)
A41B 13/00 (2006.01)
A61F 13/15 (2006.01)
A61F 13/58 (2006.01)
A61F 13/62 (2006.01)
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A61F 13/53 (2006.01)
A61F 13/15 (2006.01)
A61L 15/60 (2006.01)
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H01H 43/00 (2006.01)
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H01F 7/06 (2006.01)
A61B 5/085 (2006.01)
F04B 35/04 (2006.01)
F15B 9/03 (2006.01)
F15B 15/18 (2006.01)
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H02K 7/102 (2006.01)
H02K 7/116 (2006.01)
H02K 11/04 (2006.01)
H02K 15/12 (2006.01)
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B65D 19/38 (2006.01)
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B01D 71/34 (2006.01)
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B21B 37/00 (2006.01)
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C09K 5/10 (2006.01)
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G11B 27/32 (2006.01)
G11B 7/0045 (2006.01)
G11B 20/10 (2006.01)
G11B 20/12 (2006.01)
G11B 27/00 (2006.01)
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A23L 1/328 (2006.01)
A23B 4/027 (2006.01)
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E04B 1/94 (2006.01)
E04D 11/00 (2006.01)
E04H 9/00 (2006.01)
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A01N 63/00 (2006.01)
C07H 21/04 (2006.01)
C12N 5/00 (2006.01)
C12N 15/00 (2006.01)
C12N 15/63 (2006.01)
A61K 35/12 (2006.01)
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E21B 33/06 (2006.01)
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B63B 1/18 (2006.01)
B63B 7/02 (2006.01)
B63B 17/00 (2006.01)
B63B 39/00 (2006.01)
B63H 19/02 (2006.01)
B63J 3/04 (2006.01)
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G01S 3/80 (2006.01)
G01S 15/00 (2006.01)
G06Q 10/00 (2006.01)
G06Q 30/00 (2006.01)
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A61B 17/86 (2006.01)
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H01J 49/04 (2006.01)
G01N 1/00 (2006.01)
G01N 30/72 (2006.01)
G01N 37/00 (2006.01)
H01J 49/00 (2006.01)
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F16L 11/08 (2006.01)
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A61M 5/315 (2006.01)
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H04B 1/707 (2006.01)
H04J 13/00 (2006.01)
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B60C 11/11 (2006.01)
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B60C 11/12 (2006.01)
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A23L 2/52 (2006.01)
A23C 9/152 (2006.01)
A23C 9/154 (2006.01)
A23G 1/00 (2006.01)
A23G 1/56 (2006.01)
A23J 3/08 (2006.01)
A23L 1/015 (2006.01)
A23L 1/164 (2006.01)
A23L 1/29 (2006.01)
A23L 1/30 (2006.01)
A23L 1/305 (2006.01)
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A23L 2/66 (2006.01)
A23L 2/68 (2006.01)
A23L 3/3472 (2006.01)
A61K 31/19 (2006.01)
A61K 31/205 (2006.01)
A61K 31/715 (2006.01)
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A61K 31/192 (2006.01)
C07D 263/57 (2006.01)
C07K 1/00 (2006.01)
G01N 33/50 (2006.01)
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C07D 263/56 (2006.01)
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A61K 38/06 (2006.01)
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G06K 13/103 (2006.01)
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A61P 9/00 (2006.01)
A61P 17/00 (2006.01)
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C07K 14/475 (2006.01)
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A61K 9/00 (2006.01)
A61K 47/32 (2006.01)
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A63F 13/10 (2006.01)
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C11D 1/62 (2006.01)
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A61B 17/86 (2006.01)
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C12N 15/54 (2006.01)
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G01N 15/14 (2006.01)
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2005279328 OVD Kinegram AG
2005279485 Outokumpu Technology Oyj
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Certified Innovation Patents

Name Index

(This list may contain multiple listings of a patent where there are multiple patentees for that patent.)

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(71) Keen, G.
(11) AU-B-2009100948
(21) 2009100948 **(22)** 17.09.2009
(54) Height-adjusting Assembly
(51) Int. Cl.
E04H 9/02 (2006.01)
E04B 1/36 (2006.01)
(45) 25.03.2010
(62) 2007101203
(72) Keen, Glenn Ranald
(74) Cullens Patent and Trade Mark Attorneys

Nedsyp Nominees Pty Ltd see Zatara Nominees Pty Ltd
(21) 2009101201

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(71) Tucci, A.
(11) AU-B-2005101046
(21) 2005101046 **(22)** 22.12.2005
(54) Wiring harness
(51) Int. Cl.
H01R 31/06 (2006.01)
H01R 9/11 (2006.01)
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(45) 25.03.2010
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(74) Griffith Hack

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(71) Vawdrey Australia Pty Ltd
(11) AU-B-2009100536
(21) 2009100536 **(22)** 02.06.2009
(54) Vehicle trailer with retractable barrier
(51) Int. Cl.
B60P 7/00 (2006.01)
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B62D 63/08 (2006.01)
(45) 25.03.2010
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(74) Davies Collison Cave

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(71) Zatara Nominees Pty Ltd ; Nedsyp Nominees Pty Ltd
(11) AU-B-2009101201
(21) 2009101201 **(22)** 24.11.2009
(54) Electronic scoring system, method and armour for use in martial arts
(51) Int. Cl.
A63B 69/00 (2006.01)
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(31) 2009905163 **(32)** 23.10.09 **(33)** AU
(45) 25.03.2010
(72) Pysden, David; Forsell, Justin
(74) 1 Place Patent Attorneys + Solicitors

Numerical Index

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Opposition Proceedings

(The name in parentheses is that of the opponent)

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2003235054 **Gowland Pty Ltd** (Aco Polycrete Pty Ltd)

2003287257 **Genentech, Inc.** (Merck Sharpe & Dohme (Australia) Pty Ltd)

2005322271 **Google, Inc.** (Webber, D.)

Opposition Withdrawn

2005264063 **Pfizer Products Inc.** (Amgen Inc.)

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Standard Patents

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Assignments Registered

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2001297777 ECD Systems, Inc. The patent has been assigned to **SCA IPLA Holdings, Inc.**

2002219852 ECD Systems, Inc. The patent has been assigned to **SCA IPLA Holdings, Inc.**

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2002323274 Ecd Systems, Inc. The patent has been assigned to **SCA IPLA Holdings, Inc.**

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2003247443 Nexicor LLC The patent has been assigned to **Senco Brands, Inc.**

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2009101200 Downey, Michael The patent has been assigned to **Downey Speed Limit Safety Clothing Pty Ltd**

Licences Registered - Section 187, Reg. 19

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Mortgages Registered - Section 187, Reg. 19

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Corrigenda

In Vol 17, No 23, Page(s) 8155 under the heading **Applications Accepted - Name Index** Under the name Kevin Scott, Application No. 2002233037, Under INID (43) correct the publication date to read 6 Sep 2002

In Vol 17, No 28, Page(s) 9994 under the heading **Applications Accepted - Name Index** Under the name Sequred Pty. Limited , Application No. 2002224658, Under INID (43) correct the publication date to read 25 Jul 2002

In Vol 18, No 1, Page(s) 306 under the heading **Applications Accepted - Name Index** Under the name Bactron Pty Ltd, Application No.

Corrigenda

2002227782, Under INID (43) correct the publication date to read 08 Aug 2002

In Vol 18, No 14, Page(s) 4181 under the heading **Applications Accepted - Name Index** Under the name Matsushita Electric Industrial Co., Ltd., Application No. 2002226740, Under INID (43) correct the publication date to read 08 Aug 2002

In Vol 18, No 19, Page(s) 5726 under the heading **Applications Accepted - Name Index** Under the name LG Electronics Inc., Application No. 2002236310, Under INID (43) correct the publication date to read 29 Aug 2002

In Vol 18, No 27, Page(s) 7523 under the heading **Applications Accepted - Name Index** Under the name Casio Computer Co., Ltd., Application No. 2002226693, Under INID (43) correct the publication date to read 1 Aug 2002

In Vol 18, No 28, Page(s) 7737 under the heading **Applications Accepted - Name Index** Under the name Inco Limited, Application No. 2001295323, Under INID (43) correct the publication date to read 11 Jul 2002

In Vol 18, No 3, Page(s) 797 under the heading **Applications Accepted - Name Index** Under the name LG Electronics Inc., Application No. 2002234988, Under INID (43) correct the publication date to read 29 Aug 2002

In Vol 18, No 6, Page(s) 1574 under the heading **Applications Accepted - Name Index** Under the name Zoltans Pool Products Pty Ltd, Application No. 2002234433, Under INID (43) correct the publication date to read 12 Sep 2002

In Vol 20, No 44, Page(s) 4491 under the heading **Applications Accepted - Name Index** Under the name Toray Industries, Inc, Application No. 2002224086, Under INID (43) correct the publication date to read 30 May 2002

In Vol 21, No 8, Page(s) 834 under the heading **Applications OPI - Name Index** Under the name James Florino, Application No. 2007200437, under INID (72) correct the inventor name to Fiorino, James

In Vol 22, No 26, Page(s) 3115 under the heading **PCT applications that have entered the National Phase - Name Index** Under the name Merck Sharp & Dohme Corp., Application 2006335108, under INID (54) correct the title to read CETP inhibitors.

In Vol 23, No 27, Page(s) 9142 under the heading **Applications Accepted - Name Index** Under the name Vidyo, Inc., Application No. 2006346226, Under INID (43) correct the publication date to read 10 Jul 2008

In Vol 23, No 31, Page(s) 9585 under the heading **Applications Accepted - Name Index** Under the name Panasonic Corporation, Application No. 2003261780, under INID (54) correct the title to read Motion compensation method, picture coding method and picture decoding method

In Vol 23, No 32, Page(s) 9680 under the heading **Applications Accepted - Name Index** Under the Name Smith & Nephew, Inc., Application No. 2003238938, under INID (72) correct the co-inventor to Allen, C. Wayne

In Vol 23, No 39, Page(s) 10367 under the heading **Complete Applications Filed - Name Index** Under the name Owen K. ; Ballard W., Application No. 2009217437, under INID (62) insert 2008252071

In Vol 23, No 44, Page(s) 10893 under the heading **Provisional Applications Filed - Name Index** Under the name Zatara Nominees Pty Ltd, Application No. 2009905163, under INID (71), add co-applicants Nedsyp Nominees Pty Ltd

In Vol 23, No 46, Page(s) 11214 under the heading **Applications Accepted - Name Index** Under the name Becton, Dickinson and Company, Application No. 2003200983, under INID (22) correct the filing date to read 12 March 2003

In Vol 23, No 46, Page(s) 11218 under the heading **Applications Accepted - Name Index** Under the name Gencia Corporation, Application No. 2004204068, under INID (54) correct the title to SiRNA Mediated Post - Transcriptional Gene Silencing of Genes involved in Alopecia

In Vol 23, No 46, Page(s) 11228 under the heading **Applications Accepted - Name Index** Under the name Siemens Medical Solutions USA, Inc., Application No. 2005322793, under INID (54) correct the title to read Combined PET/MR imaging system and APD-based PET detector for use in simultaneous PET/MR imaging

In Vol 23, No 46, Page(s) 11242 under the heading **Assignments Registered** Under the name Peter Allan Veivers Application No. 2005100240 under INID(71) correct the name to read Peter Aaron Veivers

In Vol 23, No 47, Page(s) 11313 under the heading **PCT applications that have entered the National Phase - Name Index** Under the name SMS Demag AG, Application No. 2008267452, under INID (71) correct the applicant name to SMS Siemag AG.

In Vol 24, No 10, Page(s) 1151 under the heading **Applications Accepted - Name Index** Under the Name General Electric Company, Application No. 2004200815, under INID (72) correct the co-inventor to Kisak, Jeffery James

In Vol 24, No 11, Page(s) 1187 under the heading **Innovation Patents Filed - Name Index** Under the name Unilumin Group Co., Ltd., Application No. 2010100192, Under INID (54), correct the title to LED light module for street lamp and method of manufacturing same

In Vol 24, No 11, Page(s) 1257 under the heading **Applications Accepted - Name Index** Under the Name Dia-Nitrix Co., Ltd., Application No. 2004227223, under INID (72) correct the co-inventor to Kanou, Makoto

In Vol 24, No 11, Page(s) 1264 under the heading **Applications Accepted - Name Index** Under the Name PrimaGen Holding B.V., Application No. 2003245176, under INID (72) correct the co-inventors to de Baar, Marinus Petrus and de Rooij, Esther Regina

In Vol 24, No 4, Page(s) 335 under the heading **Amendments - Amendments Made** Under the name Synfuels CHINA, Application No. 2007359708, under INID (54) Correct the title to read A gas-liquid-soild three-phases suspension bed reactor for Fischer-Tropsch synthesis and the use thereof

In Vol 24, No 6, Page(s) 601 under the heading **PCT applications that have entered the National Phase - Name Index** Under the name OBSCHESTVO S OGRANICHENNOI OTVETSTTVENNOCTIYU 'BIONIKA', Application No. 2008269258, under INID (71) correct the applicant name to OBSCHESTVO S OGRANICHENNOI OTVETSTTVEN-

Corrigenda

NOCTIYU "BIONIKA"

In Vol 24, No 7, Page(s) 758 under the heading **Applications Accepted - Name Index** Under the name Jacobus Pharmaceutical Company, Inc., Application No. 2003294491, under INID (72) correct the co-inventor to Schiehser, Guy Alan

In Vol 24, No 7, Page(s) 778 under the heading **Applications Accepted - Name Index** Under the name Vidyo, Inc., Application No. 2006346225, Under INID (43) correct the publication date to read 22 May 2008

In Vol 24, No 8, Page(s) 798 under the heading **Provisional Applications Filed - Name Index** Under the name The University of Western Australia, Application No. 2010900502, under INID (54) correct the title to read Process for producing hydrogen from hydrocarbons

In Vol 24, No 8, Page(s) 899 under the heading **Applications Accepted - Name Index** Under the Name Corning Cable Systems LLC, Application No. 2008309134, under INID (72) correct the co-inventor to Seddon, David A.

In Vol 24, No 8, Page(s) 927 under the heading **Letters Patent Sealed - Standard Patents** Delete all reference to 2003228276

In Vol 24, No 9, Page(s) 1012 under the heading **Applications Accepted - Name Index** Under the name Atlas Elektronik GmbH, Application No. 2006322417, under INID (54) correct the title to Appliance for deployment and tracking of an unmanned underwater vehicle

In Vol 24, No 9, Page(s) 1034 under the heading **Applications Accepted - Name Index** Under the Names MetaMorphix, Inc. and Cargill, Incorporated, Application No. 2003303599, under INID (72) correct the co-inventor to DeNise, Sue K.

In Vol 24, No 9, Page(s) 947 under the heading **Assignments Before Grant, Section 113 - 2008** Under the name of Eastman Chemical Company, Application No. 2008266813 under INID (71) correct the name to read Eastman Chemical Company and Renewable Algal Energy, LLC

Specifications Republished

The following specifications contained errors when advertised OPI, Accepted or Certified. They have been reissued on the AU-A or AU-B CD-ROM of this Journal date.

2003233574	**Microsoft Corporation**
2003238938	**Smith & Nephew, Inc.**
2004262580	**Bayer CropScience S.A.**
2005234764	**Alcoa Closure Systems International, Inc.**
2006100488	**F and G Technologies Pty Ltd; UES (INT'L) Pty Ltd**
2006224816	**Unilever PLC**
2006264099	**Peri GmbH**
2009100577	**Apple Inc.**

ADVERTISEMENT

Pursuant to Order 58 Rule 10(1) *Federal Court Rules*

Proceedings: No. NSD 428 of 2009 – Expo-Net Danmark A/S (Applicant) v Buono-Net Australia Pty Ltd (First Respondent), Raffaele Buono (Second Respondent), Clelia Buono (Third Respondent)

Amendments: Expo-Net Danmark A/S will seek an order under s 105 of the *Patents Act 1990 (Cth)* directing amendment of Patents Nos 2006226731 and 2007100339 as follows:

(i) No. 2006226731 - Delete pages 1 to 23 and insert new pages 1 to 23 filed herewith; and

(ii) No. 2007100339 - Delete pages 1 to 19 and insert new pages 1 to 19 filed herewith.

Address for Service: Watermark Patent & Trade Mark Attorneys, Building 1, Binary Centre, 3 Richardson Place, North Ryde NSW 2113.

A person intending to oppose the application who is not a party to the proceedings or pending proceedings must, not later than 28 days after publication of the advertisement, give written notice of that intention to the Commissioner and to the persons who are parties to the proceedings.

Order NOT Entered

IN THE FEDERAL COURT OF AUSTRALIA
NEW SOUTH WALES DISTRICT REGISTRY
GENERAL DIVISION

No: **(P)NSD428/2009**

EXPO-NET DANMARK A/S
Applicant

BUONO-NET AUSTRALIA PTY LTD (ACN 002 040 495)
First Respondent

RAFFAELE BUONO
Second Respondent

CLELIA BUONO
Third Respondent

ORDER

JUDGE: Justice Bennett

DATE OF ORDER: 18 February 2010

WHERE MADE: Sydney

THE COURT:

Applicant's further Security for Costs

1. **DIRECTS** that on 18 February 2010, the Applicant shall provide further security for costs in the amount of $50,000 by way of cheque in favour of the Federal Court of Australia.

2. **DIRECTS** that the Applicant's further security pursuant to Order 1 is to be invested into an interest bearing account.

Inspection

3. **DIRECTS** that pursuant to Federal Court Rules Or 17 r1, the Respondents are to make available for inspection by the Respondents' legal representatives and expert(s) on or

before 11 March 2010 the apparatus referred to in paragraph 12.1 of the Respondents' Defence.

4. **DIRECTS** that for the purpose of Order 1, the parties are to liaise in relation to:

   (a) Whether such inspection is to be conducted pursuant to any confidentiality regime and, if so, to finalise the terms of any such regime prior to inspection taking place; and

   (b) The arrangements for the inspection including the place and time for the inspection and the operation of the equipment during the inspection.

Amendment of Patents

5. **DIRECTS** that on or before 23 February 2010 the Applicant gives notice to the Commissioner of Patents pursuant to Federal Court Rules Or 58 r10(1) of its intention to seek leave to amend Patent No 2006226731 and Innovation Patent No 2007100339 ("the Patents").

6. **GRANTS LEAVE** to the Applicant to rely on its Notice of Motion filed on 11 December 2009 as its application for leave to amend the Patents pursuant to Federal Court Rules Or 58 r10(4).

7. **DIRECTS** that the Applicant file and serve its evidence in support of the Notice of Motion filed on 11 December 2009 on or before 8 March 2010.

Further Evidence

In chief by the Applicant

8.1 **DIRECTS** that the applicant file and serve on or before 23 April 2010 its affidavit evidence in chief on alleged infringement.

Further evidence in chief by the Respondents and the Cross-claimant

8.2 **DIRECTS** that the respondents and the cross-claimant o file and serve on or before 23 April 2010 expert evidence on the issues identified in paragraph 5.1 of the orders made

on 10 September 2009 and any evidence, including expert evidence in support of the cross-claim.

Evidence in answer by the respondents on alleged infringement

8.3 **DIRECTS** that the respondents file and serve on or before 21 May 2010 all factual and expert evidence in answer to the infringement claims.

Evidence in answer by the cross-respondent on alleged invalidity

8.4 DIRECTS that the cross-respondent file and serve on or before 21 June 2010 all factual and expert evidence in answer to the cross-claim.

Evidence in reply

8.5 DIRECTS that the parties file and serve any evidence in reply on or before 11 August 2010.

Further directions

9. **ORDERS** that the matter be listed for further directions at 9:30 a.m. on 20 August 2010.

Liberty to apply

10. **ORDERS** that each party shall have liberty to apply on three days notice.

Date that entry is stamped:

Deputy District Registrar

IN THE MATTER OF Australian Patent No. 2006226731 in the name of Expo-Net Danmark A/S

STATEMENT OF PROPOSED AMENDMENTS

2. Delete pages 1 to 23 and insert new pages 1 to 23 filed herewith. (A marked-up copy of the amended pages, showing the nature of the amendments, is also enclosed.)

DATE: 23 February 2010

L1167XV00

A contact filter block, a method of producing structural elements of a contact filter block and an apparatus for producing structural elements of a contact filter block

The present invention relates to a method of producing structural elements of a contact filter block, a contact filter block obtained by the method and an apparatus for producing structural elements of a contact filter block using the method.

Related techniques have been described in publications such as US 2004/0022973, US3,758,359, US 4,089,667, US 5,015,123, US 5,772,870, US 5,882,510, US 6,217,800, US 6,333,088, US 6,342,158, US 6,551 ,818, EP 1 142 837 A and KR 9611746. Reference is made to the above mentioned patent publications and the above US patents are hereby incorporated in the present specification by reference in their entirety for all purposes.

A first aspect of the present invention relates to a method of producing structural elements of a contact filter block using an apparatus that includes: a reservoir for storing granulate material having a first melting point, ~~the~~said reservoir having a first inlet and a ~~second inlet~~first outlet, ~~the~~said granulate material including a foaming additive having a second melting point, a heating and pressurising unit including a chamber having a second inlet and a second outlet, said~~the~~ second inlet in communication with said~~the~~ first outlet, a path of travel defined from said~~the~~ second inlet to said~~the~~ second outlet, said~~the~~ heating unit ~~inlcuding~~ including heating and pressurising elements distributed along the path of travel, an extruder unit mounted downstream relative to said~~the~~ heating and pressurising unit at said~~the~~ second outlet, said~~the~~ extruder unit further including an extruder heating unit and two oppositely rotating extruder heads or two parallel moving extruder heads defining an extruder outlet, said~~the~~ extruder unit generating a mesh-type tubular structure, a cooling unit mounted at said~~the~~ extruder unit for rapidly cooling said~~the~~ granulate material, and a measuring and cutting device for measuring and cutting elements having a predetermined length within a specific interval, the method including the steps of:

supplying saidthe granulate material to saidthe heating and pressurising unit from saidthe reservoir via saidthe second inlet,

conveying saidthe granulate material along saidthe path of travel,

heating saidthe granulate material to an elevated temperature and pressurising thesaid granulate material to an elevated pressure while conveying saidthe granulate material along saidthe path in saidthe heating and pressurising unit, saidthe heating and pressurising performed according to a specific heating and pressurising profile,

transferring saidthe heated and pressurised granulate material to saidthe extruder unit,

heating saidthe granulate material within saidthe extruder heating unit to a temperature above saidthe first melting point and/or at or above saidthe second melting point,

extruding saidthe mesh-type tubular structure from saidthe granulate material, saidthe heating of saidthe granulate material causing an expansion of saidthe foaming additive causing saidthe mesh-type tubular structure to obtain an porous structure,

cooling saidthe extruded mesh-type tubular structure by saidthe cooling unit according to a specific cooling profile thereby stopping or halting expansion of saidthe granulate material and/or saidthe foaming additive and locking or fixating saidthe porous structure of saidthe mesh-type tubular structure, and

cutting saidthe mesh-type tubular structure using saidthe measuring and cutting unit.

The basic idea according to the present invention is to provide improvements relating to contact filter blocks, in particular the structural elements of the contact filter blocks for improving the properties of the contact filter blocks.

According to a first embodiment of the method according to the first aspect of the present invention, the cutting of the said mesh-type tubular structure involves cutting saidthe mesh-type tubular structure into individual or discrete tubular elements which are in a further step joined together side by side for producing ain said contact filter block. The individual or discrete tubular elements may be joined or sealed together by means of an adhesive or by the application of heat. The step of joining or assembling the individual and discrete tubular

elements together may provide a contact filter block of the conventional cubic configuration or a substantially ~~or~~ box-like configuration or may alternatively provide a contact filter block having a base surface from which the individual or discrete tubular elements extend, preferably perpendicularly from the base surface. The base surface may have any relevant geometrical configuration such as a square, a rectangle, a circle, a triangle, a polygonal or a rhombic configuration.

According to an alternative or second embodiment of the method according to the first aspect of the present invention, the cutting of the mesh-type tubular structure involves transforming the mesh-type tubular structure into a planare structure by cutting lengthwise the mesh-type tubular structure and forming the planare web produced from the mesh-type tubular structure into a corrugated structure and further cutting transversally the corrugated structure into individual corrugated plate elements. In the process of producing the corrugated plate elements from the mesh-type tubular structure, the cutting lengthwise and the cutting transversally may be performed in~~the~~ one action before the individual corrugated plate elements are~~be~~ deformed into the corrugated configuration by the application of heat and/or pressure to the element. Alternatively, the mesh-type tubular structure may be cut lengthwise in a separate step, whereupon for providing a web which is forced through a deforming dye, that ~~by the~~ applies~~cation of~~ heat and/or pressure to the web for producing a corrugated web, which web is then cut into individual corrugated plate elements.

By the provision of corrugated structural plate elements, a further advantage in relation to the volume or space used for transportation is reduced as the individual corrugated plate elements may be positioned on top of one another occupying a fairly small space as no or substantially no space is left between the corrugated plate elements. At the ~~side~~ site of the application, the corrugated plate elements are joined together back to back as the corrugations of the one corrugated plate element are joined to the corrugations of the adjacent corrugated plate elements, thereby providing in the inter space between the individual adjacent corrugations through-going apertures similar to the apertures produced by the tubular elements produced in accordance with the embodiment of the method according to the first aspect of the present invention.

In the present context, the term 'a foaming additive' is to be construed as a generic term including any material present in solid, liquid or gaseous phase which allows the granulate material to be expanded for providing the porous structure of the mesh-type tubular structure produced in accordance with the method according to the first aspect of the present invention. Furthermore, granulate material is also to be construed including any material conventionally used in the polymer or plastics industry in the extrusion technical field and may include solid granulate material or polymer material included in a semi-pasteous or liquid state dependent on the actual melting point of the polymer composition.

It is further construed that any two-component polymer system, the one component constituting a component similar to the granulate material and the second component constituting a component similar to the foaming additive, which system provides thatas the two components are brought together, a physical and chemical reaction similar to the reaction caused by the straight forward addition of the foaming additive to the granulate material within the heating and pressurising unit is also to be contemplated as part of the components used or usable in accordance with the teachings of the present invention.

The primary use of the structural elements produced according to the first aspect of the present invention is as elements in a filter block. The method is primarily directed towards the advantageous properties of the structural elements, namely the enlarged surface originating from the release of the foaming additive. The increase in surface area is contemplated to be 10-50% , 50% to 100% or even more compared to structural elements produced according to traditional production methods.

In the present specification, the term a tubular element is to be construed as a geometrical element having a generator such as a circle, an ellipse, a square, a triangle or a rectangle and being generated by moving the geometrical generator along a generator line.

Furthermore, in the present context, the terms heating and pressurising unit and extruder unit are defining two sections of an apparatus conventionally known as an extruder. In the present context, the above terms heating and pressurising unit and extruder units are used solely for the purpose of defining specific properties and functions of the respective parts or sections of the extruder.

Furthermore, it is to be understood that the term extruder unit may be considered equivalent to or identical to the part of the conventional extruder commonly known as the dye head.

Additionally, the method is contemplated to reduce the amount of material used for producing the structural elements by 20% to 50%, or even more, as other production methods for producing elements having a large surface requires larger amounts of material.

The large surface of the structural elements is contemplated to provide space for one, two or more colonies of bacteria, of aerobic and/or anaerobic types. The combination of aerobic and anaerobic bacteria is contemplated to ensure an advantageous rate of decomposition of waste or biological material in water. Also, the structural elements are contemplated to ensure that a large amount of bacteria will grow on the structural elements within a short period of time, such as within two weeks. It is contemplated that anaerobic bacteria will grow at, around or near the joints of the mesh-type structure and aerobic bacteria will grow at or on the parts between the joints.

Dependent on the heating of the granulate material and also dependent on the cooling of the extruded mesh-type tubular structure after extrusion ~~may cause~~ the individual strands of the mesh-type structure mayto be pressed together provided the strands are allowed to flow prior to cooling or alternatively, the individual strands of the mesh-type structure may be positioned on top of one another providing a more irregularly configurate type structure improving or increasing the joints of the mesh-type structure as compared to a structure in which the individual strands of the mesh-type structure are joint or pressed together into a shallow structure. It is,

furthermore, contemplated that the more irregularly configured structure may preserve the bacteria from being killed ifprovided the contact filter block is exposed to toxic material, which isare harmful or fatal to the bacteria.

The reservoir may be constituted by a simple funnel into which a granulate material is poured automatically, semi-automatically or manually. Alternatively, the reservoir may be a tank or the like, for continuously supplying granulate material to the apparatus. The reservoir may have at least two inlets and/or outlets for refilling the reservoir and for delivering the granulate material to the apparatus.

The heating and pressurising unit receives the granulate material from the reservoir and heats and pressurises the granulate material. The granulate material is heated up to but preferably not beyond the melting point of the granulate material. In alternative embodiments, the granulate material may be heated above or beyond the melting point.

The pressure to which the granulate material is pressurised is preferably within the interval 5 to 5000 bar, such as 5 to 50 bar, such as 50 to 1000 bar, such as 60 to 900 bar, such as 65 to 850 bar, such as 75 to 750 bar, such as 100 to 650 bar, such as 150 to 600 bar, such as 200 to 500 bar, such as 275 to 450 bar, such as 300 to 400 bar, such as 325 to 375 bar, such as 5 to 25 bar, such as 25 to 45 bar, such as 45 to 75 bar, such as 75 to 150 bar, such as 150 to 200 bar, such as 200 to 275 bar, such as 275 to 340 bar, such as 340 to 375 bar, such as 375 to 425 bar, such as 425 to 500 bar, such as 500 to 550 bar, such as 550 to 625 bar, such as 625 to 700 bar, such as 700 to 775 bar, such as 775 to 850 bar, such as 850 to 1000 bar, preferably around 350 bar.

The extruder heating unit provides an additional heating of the material. When the extruder heating unit heats the material, the foaming additive is contemplated to reach its foaming state and cause an expansion or creation of bubbles in the material, thereby creating a porous structure in the material.

In alternative embodiments, the extruder heating unit may be omitted, and the heating and pressurising unit may provide the needed heat for the foaming additive to expand.

For ensuring that the porous structure in the material is fixed or not changed, a cooling unit is provided. The cooling unit cools the material after it exits the extruder unit which is contemplated to stop the expansion of the foaming additive. The cooling may be obtained by using water, air, any fluid or liquid.

The extruder unit extrudes the mesh-type tubular structure from the heated material. In the presently preferred embodiment of the present invention, the extruder unit includes two oppositely rotating extruder heads or two parallel moving extruder heads, and the extruder heads defines the extruder outlet or dye head. The oppositely rotating extruder heads provide a relative motion between the rotating extruder heads as the one head may be stationary or be moving at a lower speed in the one direction as compared to the other head, or alternatively, the other head may be stationary or rotating oppositely to the first head or at a lower speed as compared to the first head.

Furthermore, for providing a specifically configured mesh-type tubular structure, the rotation may be oscillating or have varying speeds of one or both of the rotating extruder heads for providing a specific configuration of the mesh-type structure of the mesh-type tubular structure. Further, the extruder unit may include a multitude of nozzles each defining a cross-section having a substantially square, round, semi—round, rectangular, oblong, triangular, semi-hyperbolic, trapeze, inverse trapeze shaped or any combinations thereof, preferably round. In the present context, the term nozzle is used for describing the outlets of the extruder.

The measuring and cutting device is used for measuring and cutting the mesh-type tubular structure into discrete elements having a predetermined length within a specific interval, i.e. the resulting discrete elements may have an overall dimension with a measurement uncertainty. The measurements may be performed by machine

visual inspection, mechanical determination of the length of the elements or any other automatic or semi-automatic methods or techniques.

In performing the method according to the first aspect of the present invention, the granulate material is supplied from the reservoir into the heating and pressurising unit. The heating and pressurising unit has an inlet through which the granulate material is supplied. The inlet may be in fluid communication with the reservoir.

The granulate material is conveyed along the path of travel defined in the heating and pressurising unit while the heating units heats the granulate material. The heating is performed according to a specific heating profile.

In a first instance the heating elements may emit the same amount of heat at all positions along the path of travel, i.e. the same number of watts is emitted from all elements. In a second instance the heating element or elements may emit an increasing or decreasing amount of heat along the path of travel to ensure that the temperature of the granulate material is near the melting point at the outlet of the heating and pressurising unit. In a third instance, the specific heating profile may include one or more temperature peaks along the path of travel, such as short and/or longer bursts of heat emitted from the heating elements or element. The temperature peaks may be substantially equal or in the alternative different, both in terms of amount and width/duration, further alternatively, a combination of two or more substantially equal peaks and one or more peaks different from the two.

Further, the speed at~~of~~ which the granulate material is conveyed along the path of travel may be adapted to ensure that the temperature of the granulate material is near or at the melting point of the granulate material at the outlet of the heating and pressurising unit.

The heating and pressurising unit may also increase or decrease the pressure of the granulate material as it is conveyed from the inlet to the outlet of the heating and pressurising unit. The change in pressure may be performed according to a specific pressurising profile.

After the material has been extruded, the extruder heating unit may provide extra heat for heating and thereby causing the foaming additive to expand and thereby create a porous structure in the material. The cooling unit cools the material to a temperature below the temperature at which the foaming additive expands.

The granulate material used in the method according to the first aspect of the present invention is preferably HDPE. Further, the granulate material may further include an amount of PP or LDPE or a combination thereof, and/or may include PVS, NYLON, ABS or any other polymer materials.

According to the teachings of the present invention, the weight of the foaming additive may constitute 0,1% to 50%, such as 1 % to 40%, such as 5% to 35%, such as 8% to 20%, such as 9% to 12%, such as 0,1 % to 5%, such as 5% to 15%, such as 15% to 25%, such as 25% to 35%, such as 35% to 45%, such as 45% to 50%, preferably 3-5% or 5-10% of the weight of the granulate material.

According to the basic realisation of the method according to the present invention, the granulate material may be heated to 140 to 300 degrees centigrade, dependent on the polymer material or materials in question.

Additionally, the granulate material may further include a colouring additive, such as green, black or any other colour.

Particularly, the method according to the first aspect of the present invention may further comprise providing a feed screw in the path of travel, the feed screw defining a cylindrical or conical geometry. The feed screw may then constitute a conveyor for conveying the material from the inlet of the heating and pressurising unit to the ~~output~~ outlet thereof. The geometrical structure of the feed screw may perform the pressurising of the material as it is conveyed along the path of travel.

A second aspect of the present invention relates to a contact filter block for the construction of filters for biological treatment of waste water including:

a plurality of individual structural elements which are joined together each having an mesh-type outside surface, the individual structural elements being produced using the method according to the first aspect and/or embodiments thereof as defined above, said individual structural elements having a porous structure.

Said plurality may comprise e.g. 4, 6, 8, 10, 12, 16 or even more individual structural elements, such as e.g. 25, 36, 64 or 100.

The porous structure of the contact filter block is contemplated to provide a large surface on which a multitude of bacteria may grow. The bacteria are then contemplated to break-down or decompose waste in water flowing through the contact filter block. The contact filter block may be positioned in the ground or in a waste water treatment facility.

In a basic realisation of the contact filter block according to the second aspect of the present invention, it is contemplated that the porous structure may have a surface of no less than 25-800 m^2/m^3, such as 90-100 m^2/m^3, 100-150 m^2/m^3, 150-200 m^2/m^3, or 200-300 m^2/m^3.

As discussed earlier, the large surface area is contemplated to provide space for large amounts of bacteria for decomposing waste and/or biological material in water.

The contact filter block according to the second aspect may be produced by the method according to the first aspect of the present invention.

The surface roughness may be further described by the parameters Ra, Rz and Rmax. The surface roughness is measured in µm.

A third aspect of the present invention relates to a contact filter block for the construction of filters for biological treatment of waste water including: a plurality of tubular elements which are joined together each having an mesh-type outside surface, the tubular elements being produced using the method according to the first aspect and/or embodiments thereof, and having a surface roughness within the interval 5 to 1000, such as 7 to 700, such as 10 to 600, such as 25 to 500, such as 50 to 450, such as 75 to 350, such as 100 to 300, such as 150 to 250, such as 7 to 15, such as 15 to 30, such as 30 to 50, such as 50 to 75, such as 75 to 150, such as 150 to 225, such as 225 to 300, such as 300 to 350, such as 350 to 400, such as 400 to 500, all measures being Ra, Rz and Rmax.

A fourth aspect of the present invention relates to a contact filter block for the construction of filters for biological treatment of waste water including: a plurality of corrugated plate elements which are joined together having the corrugations of the one plate element facing the corrugations of the adjacent plate element, each of said plate elements having a mesh type outside surface, said

corrugated plate elements being produced due to the method according to the first aspect and/or embodiments thereof defined above, and having a surface roughness within the interval 5 to 1000, such as 7 to 700, such as 10 to 600, such as 25 to 500, such as 50 to 450, such as 75 to 350, such as 100 to 300, such as 150 to 250, such as 7 to 15, such as 15 to 30, such as 30 to 50, such as 50 to 75, such as 75 to 150, such as 150 to 225, such as 225 to 300, such as 300 to 350, such as 350 to 400, such as 400 to 500, all measures being Ra, Rz and Rmax.

In a preferred embodiment of the present invention, the parameter Ra has a value in the interval 5 to 1000, such as 7 to 700, such as 10 to 600, such as 25 to 500, such as 50 to 450, such as 75 to 350, such as 100 to 300, such as 150 to 250, such as 7 to 15, such as 15 to 30, such as 30 to 50, such as 50 to 75, such as 75 to 150, such as 150 to 225, such as 225 to 300, such as 300 to 350, such as 350 to 400, such as 400 to 500, all measures being Ra, Rz and Rmax.

In a preferred embodiment of the present invention, the parameter Rz has a value in the interval 5 to 4000, such as 20 to 2000, such as 25 to 1800, such as 40 to 1500, such as 75 to 1300, such as 125 to 1200, such as 200 to 1100, such as 275 to 1000, such as 350 to 850, such as 400 to 700, such as 450 to 600, such as 500 to 550, such as 20 to 50, such as 50 to 100, such as 100 to 150, such as 150 to 225, such as 225 to 300, such as 300 to 375, such as 375 to 450, such as 450 to 550, such as 550 to 675, such as 675 to 775, such as 775 to 850, such as 850 to 950, such as 950 to 1100, such as 1100 to 1250, such as 1250 to 1400, such as 1400 to 1600, such as 1600 to 1800, such as 1800 to 2000, all measures being Ra, Rz and Rmax.

In a preferred embodiment of the present invention, the parameter Rmax has a value in the interval 5 to 5000, such as 30 to 3000, such as 40 to 2800, such as 50 to 2600, such as 75 to 2400, such as 150 to 2200, such as 200 to 2000, such as 275 to 1800, such as 375 to 1700, such as 450 to 1550, such as 550 to 1400, such as 650 to 1200, such as 775 to 1000, such as 850 to 950, such as 30 to 40, such as 40 to 50, such as 50 to 75, such as 75 to 100, such as 100 to 175, such as 175 to 275, such as 275 to 350, such as 350 to 475, such as 475 to 575, such as 575 to 700, such as 700 to 900, such as 900 to 1200, such as 1200 to 1500, such as 1500 to 1800, such as 1800 to 2000, such as 2000 to

2300, such as 2300 to 2600, such as 2600 to 2800, such as 2800 to 3000, all measures being Ra, Rz and Rmax.

The tubular elements of the contact filter block according to the third aspect of the present invention and similarly the corrugated plate elements of the contact filter block according to the fourth aspect of the present invention may be obtained according to the method defined in the first aspect of the present invention, and may include the features of the contact filter block according to the second aspect.

A fifth aspect of the present invention relates to an apparatus for producing structural elements of a contact filter block, the apparatus including: a reservoir for storing granulate material having a first melting point, said reservoir having a first inlet and a ~~second inlet~~first outlet, said granulate material including a foaming additive having a second melting point, a heating and pressurising unit including a chamber having a second inlet and a second outlet, said~~the~~ second inlet in communication with ~~the~~ said first outlet, a path of travel defined from said~~the~~ second inlet to said~~the~~ second outlet, said~~the~~ heating unit ~~comprising~~ including heating and pressurising elements distributed along said~~the~~ path of travel, an extruder unit mounted downstream relative to said~~the~~ heating and pressurising unit at said~~the~~ second outlet, said~~the~~ extruder unit further including an extruder heating unit~~, the extruder unit including~~and two oppositely rotating extruder heads

or two parallel moving extruder heads defining an extruder outlet, saidthe extruder unit generating a mesh-type tubular structure,

a cooling unit mounted at saidthe extruder unit for rapidly cooling the mesh–type tubular structure, and a measuring and cutting device for measuring and cutting structural elements having a predetermined length within a specific interval.

The apparatus according to the ~~fourth~~ fifth aspect may be used for performing the method according to the first aspect for the production of contact filter blocks according to the second and/or third aspect of the present invention.

The first, second, third, fourth and ~~fourth~~ fifth aspects are to be further described with reference to the attached drawings in which:

Fig. 1a is a schematic illustration of an apparatus for producing a mesh-type tubular structure,

Fig. 1b is a schematic illustration of a first embodiment of an apparatus for processing the mesh-type tubular structure into tubular elements,

Fig. 1c is a schematic illustration of a second embodiment of processing the mesh- type tubular structure into corrugated plate elements,

Fig. 2 is a schematic illustration of a part of an extruder unit,

Fig. 3 is a schematic illustration of the extruder unit of fig. 2,

Fig. 4 is schematic illustrations of alternative embodiments of extruder unit outlets,

Fig. 5 is a schematic illustration of a plurality of tubular elements connected in a filter block,

Fig. 6 is a zoomed schematic illustration of a part of a tubular element,

Fig. 7a is a schematic illustration of a pile of corrugated plate elements, and

Fig. 7b is a schematic illustration of a plurality of corrugated plate elements connected in a filter block.

Fig. 1a is a schematic illustration of an apparatus 10 for producing a mesh-type tubular structure. The apparatus 10 comprises a first section 12 and a second section 14. The first section 12 receives granulate material 16 via an inlet 18 constituted by a funnel. Alternatively, the inlet 18 may be in contact with a larger

reservoir for continuously supplying granulate material 16 to the apparatus 10. The granulate material comprises a foaming additive that, when heated above a certain temperature, expands and thereby creates bubbles in the melted or soft granulate material. When the foaming additive expands the granulate material is probably not granulate any more, but a soft mass.

The first section 12 receives the granulate material which is then fed to a screw conveyor 20 defining an axis or path of travel along which the granulate material is transported. The screw conveyor 20 is positioned in the first section 12.

Along the path of travel defined by the screw conveyor 20, a number of heating elements, alternatively a single heating element, is distributed. The heating element or elements, not illustrated in Fig. 1a, heats the granulate material 16 while it is conveyed by the screw conveyor from the inlet of the first section 12 to an outlet 22 of the first section.

The granulate material 16 is heated to a temperature just below the melting point of the granulate material 16. In the presently preferred embodiment of the present invention, the screw conveyor 20 compresses the granulate material as it is conveyed along the path of travel.

The heating of the granulate material 16 is performed according to a specific heating profile. In one instance the heating elements may emit the same amount of heat at all positions along the path of travel and the speed of which the screw conveyor 20 conveys the granulate material 16 may be adapted to ensure that the temperature of the granulate material is above the melting point of the granulate material at the outlet 22.

In a second instance the heating element or elements may emit an increasing or decreasing amount of heat along the path of travel to ensure that the temperature of the granulate material 16 is near the melting point of the granulate material at the outlet 22.

Thirdly, the specific heating profile may include one or more temperature peaks along the path of travel, such as short or long bursts of heat emitted~~ing~~ from the heating elements or element. The temperature peaks may be substantially equal, both in terms of amount and width/duration.

The screw conveyor 20 may be formed as a simple screw having a substantially constant diameter or height. In the alternative the screw conveyor 20 may be formed as a screw conveyor with gradually increasing or decreasing height so that the granulate material 16 is further ~~compresses~~ compressed due to the gradually reduced size or space. In the embodiment where the screw conveyor 20 has a substantially constant height along the path of travel, the granulate material 16 may still be compressed, e.g. by the "new" or cold granulate material pushing the "old" or hot granulate material 16 located nearer the outlet 22 of the first section.

The operation of the heating elements and/or the screw conveyor is controlled by an external unit 24, e.g. a computer or specialised hardware and/or software monitoring the operation of the screw conveyor and/or the heating elements by receiving information regarding the number of revolutions per second of the screw conveyor and pressure and/or temperature information e.g. via sensors located inside the first section 12. The unit 24 may ensure that the temperature of the heating elements and/or the material is within predetermined ranges.

In Fig. 1a, the unit 24 is connected to the first section 12 via a cable 26 for transferring information and control signals back and forth between the unit 24 and the first section 12. Alternatively, the cable or wire 26 may be constituted by other links such as RF, IR, HF or other wireless transfer techniques.

From the outlet 22 of the first section 12, the heated and near-melted granulate material is transferred into the second section via an inlet 28. The material is fed to an extruder unit 30 including an additional heater unit, not illustrated, for heating the material above its melting point. As the "material includes a foaming additive that is released above a certain temperature, the foaming material will enter a gaseous state thereby creating a porous structure in the material. The expansion or transfer

of the foaming additive into gas is preferably done after the material has passed though the extruder unit 30.

To ensure that the porous structure is fixed, a cooling unit cools the material shortly after the porous structure has been established.

In Fig. 1a, the mesh-type tubular structure 34 exits the second section 14 via the outlet 36. The tubular mesh-structure 34 will be further processed as illustrated in Fig. 1b, or alternatively as illustrated in Fig. 1c.

In Fig. 1b, the structure 34 is cut into individual tubular elements using a cutting saw 38 located in a tower 40, the cutting wheel being mounted on a reciprocating arm moving in the direction of the arrow 42. The structure 34 is cut into smaller pieces that may be assembled in larger structures such as 44 which is a structure comprising 25 short pieces of the tubular mesh-structure 34. The 25 individual pieces of the tubular mesh-structure are~~is~~ then transferred into a heater unit 46 melting the ends of the pieces of the tubular mesh-structure so that the individual pieces are assembled and/or locked in a fixed structure which may then be used for purposes such as cleaning water, such as waste water.

In Fig. 1c, the mesh-type tubular structure 34 is cut lengthwise by means of a cutting knife 43 causing the mesh-type tubular structure to be converted into a substantially planar structure as is illustrated by 35. The substantially planar structure is introduced into a heating and pressing dye 47, in which the substantially planar structure 35 is converted into a corrugated structure, as is indicated by the reference numeral 37, whereupon the corrugated structure is introduced into a cutting station, in which the cutting saw 38 cuts the corrugated structure into individual corrugated plate elements, one of which is designated the reference numeral 45. The corrugated plate elements are to be described in greater details below with reference to Figs. 7a and 7b. In an alternative method of providing the corrugated plate element 45, the planar structure shown in Fig. 1c is cut into individual rectangular plane elements, which are then introduced into a set of forming and pressing tools providing the corrugated configuration.

In the presently preferred embodiment of the present invention, the extruder unit 30 is constituted by two oppositely rotating parts illustrated in greater details in Figs. 2, 3 and 4.

As seen from Fig. 2, the extruded material exits the extruder unit at extruder outlets 32 distributed in a circle. The distribution of the extruder outlets 32 ensures along with the rotation of the extruder heads 52 and 54 that the resulting structure is a tubular mesh-type structure.

Fig. 3 schematically illustrates an extruder comprising two extruder heads 52 and 54. The extruder heads 52 and 54 are two oppositely rotating circular heads. In other embodiments, the extruder unit may comprise two or more parallel moving parts, two parts moving or rotating in the same direction, or parts not moving or rotating themselves.

In Fig. 4, three alternative geometrical configurations of the extruder outlets are illustrated, referenced 32', 32", 32"', respectively. In the presently preferred embodiment of the present invention, the extruder outlets 32 define a substantially circular geometrical cross section, however, as illustrated in Fig. 4, the extruder outlets may define a substantially square 32', star-shaped 32", triangular 32"' or any polygon configurations such as elliptical, rectangular, truncated pyramidal, inverse truncated pyramidal, hexagonal, pentagonal or any combinations thereof.

Fig. 5 is a schematic illustration of an assembly of pieces of the tubular mesh-type tubular structure 34, assembled into a simple structure 44. The individual mesh-type tubular structure elements are joined together at the ends of the structures, however embodiments wherein the elements are joined together at other locations along the longitudinal axis of the elements may be envisioned as well as embodiments where the elements are joined alongt the entire lengths of the elements.

Fig. 6 is a schematic closer view of an element 48 illustrating the expanded surface of the threads 50 constituting the mesh-structure of the tubular element 48. The

threads 50 have an expanded surface due to the manufacturing process as described in relation to Fig. 1 wherein the foaming additives release a gas creating bubbles in the material. The ~~enlarges~~ enlarged surface is contemplated to allow a great or large amount of bacteria to grow on the structure or thread, e.g. the bacteria located nearest the thread 50 will be covered by other bacteria thereby allowing substantially only anaerobic bacteria to grow on the thread 50 itself.

In Fig. 7a, a pile of individual corrugated plate elements 45 is shown, which pile constitutes a highly compact structure as compared to the structure 44, i.e. the contact filter block 44 shown in Fig. 5. The saving of space by the provision of the corrugated plate element 45 is contemplated to provide a further advantage of the contact filter block as compared to the conventional contact filter blocks known in the art. In Fig. 7b, a contact filter block 44' is shown, which contact filter block is assembled from the corrugated plate elements 45, also shown in Fig. 7a, ~~as t~~The corrugated plate elements 45 are joined together in Fig. 7b in a structure "back-to-back", as the corrugations of the one plate are joined to the opposite corrugations of the adjacent plate which has been turned upside down as compared to the pile shown in Fig. 7a. The structures 44' shown in Fig. 5 may be fixated by means of an adhesive or alternatively by the application of heat to the joined corrugations or at the end parts of the structure.

The combination of anaerobic and aerobic bacteria is contemplated to provide an improved cleaning effect on wastewater, as they each digest or decompose different types of waste.

"Comprises/comprising" when used in this specification is taken to specify the presence of stated features, integers, steps or components but does not preclude the presence or addition of one or more other features, integers, steps, components or groups thereof.

CLAIMS:

1. A method of producing structural elements of a contact filter block using an apparatus including:

a reservoir for storing granulate material having a first melting point, said reservoir having a first inlet and a ~~second inlet~~first outlet, said granulate material including a foaming additive having a second melting point,

a heating and pressurising unit including a chamber having a second inlet and a second outlet, said second inlet in communication with said first outlet, a path of travel defined from said second inlet to said second outlet, said heating unit including heating and pressurising elements distributed along said path of travel,

an extruder unit mounted downstream relative to said heating and pressurising unit at said second outlet, said extruder unit further including an extruder heating unit and two oppositely rotating extruder heads or two parallel moving extruder heads defining an extruder outlet, said extruder unit generating a mesh-type tubular structure,

a cooling unit mounted at said extruder unit for rapidly cooling said granulate material, and

a measuring and cutting device for measuring and cutting elements having a predetermined length within a specific interval,

the method including the steps of:

supplying said granulate material to said heating and pressurising unit from said reservoir via said second inlet,

conveying said granulate material along said path of travel,

heating said granulate material to an elevated temperature and pressurising said granulate material to an elevated pressure while conveying said granulate material along said path in said heating and pressurising unit, said heating and pressurising performed according to a specific heating and pressurising profile,

transferring said heated and pressurised granulate material to said extruder unit,

heating said granulate material within said extruder heating unit to a temperature above said first melting point and/or at or above said second melting point,

extruding said mesh-type tubular structure from said granulate material, said heating of said granulate material causing an expansion of said foaming additive causing said mesh-type tubular structure to obtain ~~an~~ porous structure,

cooling said extruded mesh-type tubular structure by said cooling unit according to a specific cooling profile thereby stopping or halting expansion of said granulate material and/or said foaming additive and locking or fixating said porous structure of said mesh-type tubular structure, and

cutting said mesh-type tubular structure using said measuring and cutting unit.

2. The method according to claim 1, said cutting ~~of~~ f said mesh-type tubular structure includes cutting said mesh-type tubular structure into discrete tubular elements and the method further including joining said tubular elements together side by side in said contact filter block.

3. The method according to claim 1, said cutting of said mesh-type tubular structure includes cutting said mesh-type tubular structure lengthwise and transversally for providing discrete elements, and the method further includes a step of forming said discrete element by the application of heat to said elements into corrugated plate elements and arranging said corrugated elements on top of one another for transportation and further including the step of joining said corrugated elements together back to back for providing a contact filter block.

4. The method according to any of the claims 1-3, wherein said extruder unit includes a multitude of nozzles each defining a cross-section having a substantially square, round, semi-~~found~~round, rectangular, oblong, triangular, semi-hyperbolic, trapeze, inverse trapeze or any combinations thereof.

5. The method according to any of the claims 1-4, wherein said first melting point is higher than, equal to or lower than said second melting point.

6. The method according to claim 5, wherein said granulate material is HDPE and wherein said granulate material further includes an amount of PP or LDPE or a combination thereof, and/or includes PVC, NYLON, ABS or any other polymer material.

7. The method according to any of the claims 1-6, wherein the weight of said foaming additive constitutes 3-10% of the weight of the granulate material.

8. The method according to any of the claims 1-7, wherein said granulate material is heated to 140 to 300 degrees centigrade.

9. The method according to any of the claims 1-8 wherein said granulate material further includes a colouring additive.

10. The method according to any of the claims 1-9 further including:

providing a feed screw in said path of travel, said feed screw defining a cylindrical or conical geometry.

11. The method according to any of the claims 1-10 wherein said heating and pressurising unit pressurises said granulate material to a pressure within the interval 5 to 5000 bar.

12. A contact filter block for the construction of filters for biological treatment of waste water including:

a plurality of individual structural elements which are joined together each having an mesh-type outside surface, the individual structural elements being produced using the method according to any of the claims 1-11, said individual structural elements having a porous structure.

13. The contact filter block according to claim 12, said porous structure having a surface of no less than 25-800 m^2/m^3.

14. A contact filter block for the construction of filters for biological treatment of waste water including:

a plurality of tubular elements which are joined together each having ~~an~~ mesh-type outside surface, said tubular elements being produced using the method according to any of the claims 1, 2 or 4-13, and having a surface roughness within the interval 5 to 1000, all measures being Ra, Rz or Rmax.

15. A contact filter block for the construction of filters for biological treatment of waste water including:

a plurality of corrugated plate elements which are joined together having the corrugations of the one plate element facing the corrugations of the adjacent plate element, each of said plate elements having a mesh type outside surface, said corrugated plate elements being produced due to the method according to any of the claims 1, 3-13, and having a surface roughness within the interval 5 to 1000, all measures being Ra, Rz or Rmax.

16. An apparatus for producing structural elements of a contact filter block, said apparatus including:

a reservoir for storing granulate material having a first melting point, said reservoir having a first inlet and a ~~second inlet~~first outlet, said granulate material including a foaming additive having a second melting point,

a heating and pressurising unit including a chamber having a second inlet and a second outlet, said second inlet in communication with said first outlet, a path of travel defined from said second inlet to said second outlet, said heating unit including heating and pressurising elements distributed along said path of travel,

an extruder unit mounted downstream relative to said heating and pressurising unit at said second outlet, said extruder unit further including an extruder heating unit and two oppositely rotating extruder heads or two parallel moving extruder heads defining an extruder outlet, said extruder unit generating a mesh-type tubular structure,

a cooling unit mounted at said extruder unit for rapidly cooling said mesh-type tubular structure, and

a measuring and cutting device for measuring and cutting structural elements having a predetermined length within a specific interval.

17. A method for producing structural elements of a contact filter block substantially as herein described with reference to any one of the embodiments illustrated in the accompanying drawings.

18. A contact filter block for the construction of filters for biological treatment of waste water substantially as herein described with reference to any one of the embodiments illustrated in the accompanying drawings.

19. An apparatus for producing structural ~~elemtns~~ elements of a contact filter block substantially as herein described with reference to any one of the embodiments illustrated in the accompanying drawings.

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A contact filter block, a method of producing structural elements of a contact filter block and an apparatus for producing structural elements of a contact filter block

The present invention relates to a method of producing structural elements of a contact filter block, a contact filter block obtained by the method and an apparatus for producing structural elements of a contact filter block using the method.

Related techniques have been described in publications such as US 2004/0022973, US3,758,359, US 4,089,667, US 5,015,123, US 5,772,870, US 5,882,510, US 6,217,800, US 6,333,088, US 6,342,158, US 6,551 ,818, EP 1 142 837 A and KR 9611746. Reference is made to the above mentioned patent publications and the above US patents are hereby incorporated in the present specification by reference in their entirety for all purposes.

A first aspect of the present invention relates to a method of producing structural elements of a contact filter block using an apparatus that includes: a reservoir for storing granulate material having a first melting point, said reservoir having a first inlet and a first outlet, said granulate material including a foaming additive having a second melting point, a heating and pressurising unit including a chamber having a second inlet and a second outlet, said second inlet in communication with said first outlet, a path of travel defined from said second inlet to said second outlet, said heating unit including heating and pressurising elements distributed along the path of travel, an extruder unit mounted downstream relative to said heating and pressurising unit at said second outlet, said extruder unit further including an extruder heating unit and two oppositely rotating extruder heads or two parallel moving extruder heads defining an extruder outlet, said extruder unit generating a mesh-type tubular structure, a cooling unit mounted at said extruder unit for rapidly cooling said granulate material, and a measuring and cutting device for measuring and cutting elements having a predetermined length within a specific interval, the method including the steps of:

supplying said granulate material to said heating and pressurising unit from said reservoir via said second inlet,

conveying said granulate material along said path of travel,

heating said granulate material to an elevated temperature and pressurising said granulate material to an elevated pressure while conveying said granulate material along said path in said heating and pressurising unit, said heating and pressurising performed according to a specific heating and pressurising profile,

transferring said heated and pressurised granulate material to said extruder unit,

heating said granulate material within said extruder heating unit to a temperature above said first melting point and/or at or above said second melting point,

extruding said mesh-type tubular structure from said granulate material, said heating of said granulate material causing an expansion of said foaming additive causing said mesh-type tubular structure to obtain a porous structure,

cooling said extruded mesh-type tubular structure by said cooling unit according to a specific cooling profile thereby stopping or halting expansion of said granulate material and/or said foaming additive and locking or fixating said porous structure of said mesh-type tubular structure, and

cutting said mesh-type tubular structure using said measuring and cutting unit.

The basic idea according to the present invention is to provide improvements relating to contact filter blocks, in particular the structural elements of the contact filter blocks for improving the properties of the contact filter blocks.

According to a first embodiment of the method according to the first aspect of the present invention, the cutting of said mesh-type tubular structure involves cutting said mesh-type tubular structure into individual or discrete tubular elements which are in a further step joined together side by side in said contact filter block. The individual or discrete tubular elements may be joined or sealed together by means of an adhesive or by the application of heat. The step of joining or assembling the individual and discrete tubular elements together may provide a contact filter block of the conventional cubic configuration or a

substantially box-like configuration or may alternatively provide a contact filter block having a base surface from which the individual or discrete tubular elements extend, preferably perpendicularly from the base surface. The base surface may have any relevant geometrical configuration such as a square, a rectangle, a circle, a triangle, a polygonal or a rhombic configuration.

According to an alternative or second embodiment of the method according to the first aspect of the present invention, the cutting of the mesh-type tubular structure involves transforming the mesh-type tubular structure into a planar structure by cutting lengthwise the mesh-type tubular structure and forming the planar web produced from the mesh-type tubular structure into a corrugated structure and further cutting transversally the corrugated structure into individual corrugated plate elements. In the process of producing the corrugated plate elements from the mesh-type tubular structure, the cutting lengthwise and the cutting transversally may be performed in one action before the individual corrugated plate elements are deformed into the corrugated configuration by the application of heat and/or pressure to the element. Alternatively, the mesh-type tubular structure may be cut lengthwise in a separate step, whereupon for providing a web which is forced through a deforming dye, that applies heat and/or pressure to the web for producing a corrugated web, which web is then cut into individual corrugated plate elements.

By the provision of corrugated structural plate elements, a further advantage in relation to the volume or space used for transportation is reduced as the individual corrugated plate elements may be positioned on top of one another occupying a fairly small space as no or substantially no space is left between the corrugated plate elements. At the site of the application, the corrugated plate elements are joined together back to back as the corrugations of the one corrugated plate element are joined to the corrugations of the adjacent corrugated plate elements, thereby providing in the inter space between the individual adjacent corrugations through-going apertures similar to the apertures produced by the tubular elements produced in accordance with the embodiment of the method according to the first aspect of the present invention.

In the present context, the term 'a foaming additive' is to be construed as a generic term including any material present in solid, liquid or gaseous phase

which allows the granulate material to be expanded for providing the porous structure of the mesh-type tubular structure produced in accordance with the method according to the first aspect of the present invention. Furthermore, granulate material is also to be construed including any material conventionally used in the polymer or plastics industry in the extrusion technical field and may include solid granulate material or polymer material included in a semi-pasteous or liquid state dependent on the actual melting point of the polymer composition.

It is further construed that any two-component polymer system, the one component constituting a component similar to the granulate material and the second component constituting a component similar to the foaming additive, which system provides that the two components are brought together, a physical and chemical reaction similar to the reaction caused by the straightforward addition of the foaming additive to the granulate material within the heating and pressurising unit is also to be contemplated as part of the components used or usable in accordance with the teachings of the present invention.

The primary use of the structural elements produced according to the first aspect of the present invention is as elements in a filter block. The method is primarily directed towards the advantageous properties of the structural elements, namely the enlarged surface originating from the release of the foaming additive. The increase in surface area is contemplated to be 10-50% , 50% to 100% or even more compared to structural elements produced according to traditional production methods.

In the present specification, the term a tubular element is to be construed as a geometrical element having a generator such as a circle, an ellipse, a square, a triangle or a rectangle and being generated by moving the geometrical generator along a generator line.

Furthermore, in the present context, the terms heating and pressurising unit and extruder unit are defining two sections of an apparatus conventionally known as an extruder. In the present context, the above terms heating and pressurising unit and extruder units are used solely for the purpose of defining specific properties and functions of the respective parts or sections of the extruder.

Furthermore, it is to be understood that the term extruder unit may be considered equivalent to or identical to the part of the conventional extruder commonly known as the dye head.

Additionally, the method is contemplated to reduce the amount of material used for producing the structural elements by 20% to 50%, or even more, as other production methods for producing elements having a large surface require larger amounts of material.

The large surface of the structural elements is contemplated to provide space for one, two or more colonies of bacteria, of aerobic and/or anaerobic types. The combination of aerobic and anaerobic bacteria is contemplated to ensure an advantageous rate of decomposition of waste or biological material in water. Also, the structural elements are contemplated to ensure that a large amount of bacteria will grow on the structural elements within a short period of time, such as within two weeks. It is contemplated that anaerobic bacteria will grow at, around or near the joints of the mesh-type structure and aerobic bacteria will grow at or on the parts between the joints.

Dependent on the heating of the granulate material and also dependent on the cooling of the extruded mesh-type tubular structure after extrusion the individual strands of the mesh-type structure may be pressed together provided the strands are allowed to flow prior to cooling or alternatively, the individual strands of the mesh-type structure may be positioned on top of one another providing a more irregularly configurate type structure improving or increasing the joints of the mesh-type structure as compared to a structure in which the individual strands of the mesh-type structure are joint or pressed together into a shallow structure. It is,

furthermore, contemplated that the more irregularly configured structure may preserve the bacteria from being killed if the contact filter block is exposed to toxic material, which is harmful or fatal to the bacteria.

The reservoir may be constituted by a simple funnel into which a granulate material is poured automatically, semi-automatically or manually. Alternatively, the reservoir may be a tank or the like, for continuously supplying granulate material to the apparatus. The reservoir may have at least two inlets and/or outlets for refilling the reservoir and for delivering the granulate material to the apparatus.

The heating and pressurising unit receives the granulate material from the reservoir and heats and pressurises the granulate material. The granulate material is heated up to but preferably not beyond the melting point of the granulate material. In alternative embodiments, the granulate material may be heated above or beyond the melting point.

The pressure to which the granulate material is pressurised is preferably within the interval 5 to 5000 bar, such as 5 to 50 bar, such as 50 to 1000 bar, such as 60 to 900 bar, such as 65 to 850 bar, such as 75 to 750 bar, such as 100 to 650 bar, such as 150 to 600 bar, such as 200 to 500 bar, such as 275 to 450 bar, such as 300 to 400 bar, such as 325 to 375 bar, such as 5 to 25 bar, such as 25 to 45 bar, such as 45 to 75 bar, such as 75 to 150 bar, such as 150 to 200 bar, such as 200 to 275 bar, such as 275 to 340 bar, such as 340 to 375 bar, such as 375 to 425 bar, such as 425 to 500 bar, such as 500 to 550 bar, such as 550 to 625 bar, such as 625 to 700 bar, such as 700 to 775 bar, such as 775 to 850 bar, such as 850 to 1000 bar, preferably around 350 bar.

The extruder heating unit provides an additional heating of the material. When the extruder heating unit heats the material, the foaming additive is contemplated to reach its foaming state and cause an expansion or creation of bubbles in the material, thereby creating a porous structure in the material.

In alternative embodiments, the extruder heating unit may be omitted, and the heating and pressurising unit may provide the needed heat for the foaming additive to expand.

For ensuring that the porous structure in the material is fixed or not changed, a cooling unit is provided. The cooling unit cools the material after it exits the extruder unit which is contemplated to stop the expansion of the foaming additive. The cooling may be obtained by using water, air, any fluid or liquid.

The extruder unit extrudes the mesh-type tubular structure from the heated material. In the presently preferred embodiment of the present invention, the extruder unit includes two oppositely rotating extruder heads or two parallel moving extruder heads, and the extruder heads define the extruder outlet or dye head. The oppositely rotating extruder heads provide a relative motion between the rotating extruder heads as the one head may be stationary or be moving at a lower speed in the one direction as compared to the other head, or alternatively, the other head may be stationary or rotating oppositely to the first head or at a lower speed as compared to the first head.

Furthermore, for providing a specifically configured mesh-type tubular structure, the rotation may be oscillating or have varying speeds of one or both of the rotating extruder heads for providing a specific configuration of the mesh-type structure of the mesh-type tubular structure. Further, the extruder unit may include a multitude of nozzles each defining a cross-section having a substantially square, round, semi-round, rectangular, oblong, triangular, semi-hyperbolic, trapeze, inverse trapeze shaped or any combinations thereof, preferably round. In the present context, the term nozzle is used for describing the outlets of the extruder.

The measuring and cutting device is used for measuring and cutting the mesh-type tubular structure into discrete elements having a predetermined length within a specific interval, i.e. the resulting discrete elements may have an overall dimension with a measurement uncertainty. The measurements may be performed by machine

visual inspection, mechanical determination of the length of the elements or any other automatic or semi-automatic methods or techniques.

In performing the method according to the first aspect of the present invention, the granulate material is supplied from the reservoir into the heating and pressurising unit. The heating and pressurising unit has an inlet through which the granulate material is supplied. The inlet may be in fluid communication with the reservoir.

The granulate material is conveyed along the path of travel defined in the heating and pressurising unit while the heating unit heats the granulate material. The heating is performed according to a specific heating profile.

In a first instance the heating elements may emit the same amount of heat at all positions along the path of travel, i.e. the same number of watts is emitted from all elements. In a second instance the heating element or elements may emit an increasing or decreasing amount of heat along the path of travel to ensure that the temperature of the granulate material is near the melting point at the outlet of the heating and pressurising unit. In a third instance, the specific heating profile may include one or more temperature peaks along the path of travel, such as short and/or longer bursts of heat emitted from the heating elements or element. The temperature peaks may be substantially equal or in the alternative different, both in terms of amount and width/duration, further alternatively, a combination of two or more substantially equal peaks and one or more peaks different from the two.

Further, the speed at which the granulate material is conveyed along the path of travel may be adapted to ensure that the temperature of the granulate material is near or at the melting point of the granulate material at the outlet of the heating and pressurising unit.

The heating and pressurising unit may also increase or decrease the pressure of the granulate material as it is conveyed from the inlet to the outlet of the heating and pressurising unit. The change in pressure may be performed according to a specific pressurising profile.

After the material has been extruded, the extruder heating unit may provide extra heat for heating and thereby causing the foaming additive to expand and thereby create a porous structure in the material. The cooling unit cools the material to a temperature below the temperature at which the foaming additive expands.

The granulate material used in the method according to the first aspect of the present invention is preferably HDPE. Further, the granulate material may further include an amount of PP or LDPE or a combination thereof, and/or may include PVS, NYLON, ABS or any other polymer materials.

According to the teachings of the present invention, the weight of the foaming additive may constitute 0,1% to 50%, such as 1 % to 40%, such as 5% to 35%, such as 8% to 20%, such as 9% to 12%, such as 0,1 % to 5%, such as 5% to 15%, such as 15% to 25%, such as 25% to 35%, such as 35% to 45%, such as 45% to 50%, preferably 3-5% or 5-10% of the weight of the granulate material.

According to the basic realisation of the method according to the present invention, the granulate material may be heated to 140 to 300 degrees centigrade, dependent on the polymer material or materials in question.

Additionally, the granulate material may further include a colouring additive, such as green, black or any other colour.

Particularly, the method according to the first aspect of the present invention may further comprise providing a feed screw in the path of travel, the feed screw defining a cylindrical or conical geometry. The feed screw may then constitute a conveyor for conveying the material from the inlet of the heating and pressurising unit to the outlet thereof. The geometrical structure of the feed screw may perform the pressurising of the material as it is conveyed along the path of travel.

A second aspect of the present invention relates to a contact filter block for the construction of filters for biological treatment of waste water including:

a plurality of individual structural elements which are joined together each having an mesh-type outside surface, the individual structural elements being produced using the method according to the first aspect and/or embodiments thereof as defined above, said individual structural elements having a porous structure.

Said plurality may comprise e.g. 4, 6, 8, 10, 12, 16 or even more individual structural elements, such as e.g. 25, 36, 64 or 100.

The porous structure of the contact filter block is contemplated to provide a large surface on which a multitude of bacteria may grow. The bacteria are then contemplated to break-down or decompose waste in water flowing through the contact filter block. The contact filter block may be positioned in the ground or in a waste water treatment facility.

In a basic realisation of the contact filter block according to the second aspect of the present invention, it is contemplated that the porous structure may have a surface of no less than 25-800 m^2/m^3, such as 90-100 m^2/m^3, 100-150 m^2/m^3, 150-200 m^2/m^3, or 200-300 m^2/m^3.

As discussed earlier, the large surface area is contemplated to provide space for large amounts of bacteria for decomposing waste and/or biological material in water.

The contact filter block according to the second aspect may be produced by the method according to the first aspect of the present invention.

The surface roughness may be further described by the parameters Ra, Rz and Rmax. The surface roughness is measured in µm.

A third aspect of the present invention relates to a contact filter block for the construction of filters for biological treatment of waste water including: a plurality of tubular elements which are joined together each having an mesh-type outside surface, the tubular elements being produced using the method according to the first aspect and/or embodiments thereof, and having a surface roughness within the interval 5 to 1000, such as 7 to 700, such as 10 to 600, such as 25 to 500, such as 50 to 450, such as 75 to 350, such as 100 to 300, such as 150 to 250, such as 7 to 15, such as 15 to 30, such as 30 to 50, such as 50 to 75, such as 75 to 150, such as 150 to 225, such as 225 to 300, such as 300 to 350, such as 350 to 400, such as 400 to 500, all measures being Ra, Rz and Rmax.

A fourth aspect of the present invention relates to a contact filter block for the construction of filters for biological treatment of waste water including: a plurality of corrugated plate elements which are joined together having the corrugations of the one plate element facing the corrugations of the adjacent plate element, each of said plate elements having a mesh type outside surface, said

corrugated plate elements being produced due to the method according to the first aspect and/or embodiments thereof defined above, and having a surface roughness within the interval 5 to 1000, such as 7 to 700, such as 10 to 600, such as 25 to 500, such as 50 to 450, such as 75 to 350, such as 100 to 300, such as 150 to 250, such as 7 to 15, such as 15 to 30, such as 30 to 50, such as 50 to 75, such as 75 to 150, such as 150 to 225, such as 225 to 300, such as 300 to 350, such as 350 to 400, such as 400 to 500, all measures being Ra, Rz and Rmax.

In a preferred embodiment of the present invention, the parameter Ra has a value in the interval 5 to 1000, such as 7 to 700, such as 10 to 600, such as 25 to 500, such as 50 to 450, such as 75 to 350, such as 100 to 300, such as 150 to 250, such as 7 to 15, such as 15 to 30, such as 30 to 50, such as 50 to 75, such as 75 to 150, such as 150 to 225, such as 225 to 300, such as 300 to 350, such as 350 to 400, such as 400 to 500, all measures being Ra, Rz and Rmax.

In a preferred embodiment of the present invention, the parameter Rz has a value in the interval 5 to 4000, such as 20 to 2000, such as 25 to 1800, such as 40 to 1500, such as 75 to 1300, such as 125 to 1200, such as 200 to 1100, such as 275 to 1000, such as 350 to 850, such as 400 to 700, such as 450 to 600, such as 500 to 550, such as 20 to 50, such as 50 to 100, such as 100 to 150, such as 150 to 225, such as 225 to 300, such as 300 to 375, such as 375 to 450, such as 450 to 550, such as 550 to 675, such as 675 to 775, such as 775 to 850, such as 850 to 950, such as 950 to 1100, such as 1100 to 1250, such as 1250 to 1400, such as 1400 to 1600, such as 1600 to 1800, such as 1800 to 2000, all measures being Ra, Rz and Rmax.

In a preferred embodiment of the present invention, the parameter Rmax has a value in the interval 5 to 5000, such as 30 to 3000, such as 40 to 2800, such as 50 to 2600, such as 75 to 2400, such as 150 to 2200, such as 200 to 2000, such as 275 to 1800, such as 375 to 1700, such as 450 to 1550, such as 550 to 1400, such as 650 to 1200, such as 775 to 1000, such as 850 to 950, such as 30 to 40, such as 40 to 50, such as 50 to 75, such as 75 to 100, such as 100 to 175, such as 175 to 275, such as 275 to 350, such as 350 to 475, such as 475 to 575, such as 575 to 700, such as 700 to 900, such as 900 to 1200, such as 1200 to 1500, such as 1500 to 1800, such as 1800 to 2000, such as 2000 to

2300, such as 2300 to 2600, such as 2600 to 2800, such as 2800 to 3000, all measures being Ra, Rz and Rmax.

The tubular elements of the contact filter block according to the third aspect of the present invention and similarly the corrugated plate elements of the contact filter block according to the fourth aspect of the present invention may be obtained according to the method defined in the first aspect of the present invention, and may include the features of the contact filter block according to the second aspect.

A fifth aspect of the present invention relates to an apparatus for producing structural elements of a contact filter block, the apparatus including: a reservoir for storing granulate material having a first melting point, said reservoir having a first inlet and a first outlet, said granulate material including a foaming additive having a second melting point, a heating and pressurising unit including a chamber having a second inlet and a second outlet, said second inlet in communication with said first outlet, a path of travel defined from said second inlet to said second outlet, said heating unit including heating and pressurising elements distributed along said path of travel, an extruder unit mounted downstream relative to said heating and pressurising unit at said second outlet, said extruder unit further including an extruder heating unitand two oppositely rotating extruder heads

or two parallel moving extruder heads defining an extruder outlet, said extruder unit generating a mesh-type tubular structure,

a cooling unit mounted at said extruder unit for rapidly cooling the mesh-type tubular structure, and a measuring and cutting device for measuring and cutting structural elements having a predetermined length within a specific interval.

The apparatus according to the fifth aspect may be used for performing the method according to the first aspect for the production of contact filter blocks according to the second and/or third aspect of the present invention.

The first, second, third, fourth and fifth aspects are to be further described with reference to the attached drawings in which:

Fig. 1a is a schematic illustration of an apparatus for producing a mesh-type tubular structure,

Fig. 1b is a schematic illustration of a first embodiment of an apparatus for processing the mesh-type tubular structure into tubular elements,

Fig. 1c is a schematic illustration of a second embodiment of processing the mesh- type tubular structure into corrugated plate elements,

Fig. 2 is a schematic illustration of a part of an extruder unit,

Fig. 3 is a schematic illustration of the extruder unit of fig. 2,

Fig. 4 is schematic illustrations of alternative embodiments of extruder unit outlets,

Fig. 5 is a schematic illustration of a plurality of tubular elements connected in a filter block,

Fig. 6 is a zoomed schematic illustration of a part of a tubular element,

Fig. 7a is a schematic illustration of a pile of corrugated plate elements, and

Fig. 7b is a schematic illustration of a plurality of corrugated plate elements connected in a filter block.

Fig. 1a is a schematic illustration of an apparatus 10 for producing a mesh-type tubular structure. The apparatus 10 comprises a first section 12 and a second section 14. The first section 12 receives granulate material 16 via an inlet 18 constituted by a funnel. Alternatively, the inlet 18 may be in contact with a larger

reservoir for continuously supplying granulate material 16 to the apparatus 10. The granulate material comprises a foaming additive that, when heated above a certain temperature, expands and thereby creates bubbles in the melted or soft granulate material. When the foaming additive expands the granulate material is probably not granulate any more, but a soft mass.

The first section 12 receives the granulate material which is then fed to a screw conveyor 20 defining an axis or path of travel along which the granulate material is transported. The screw conveyor 20 is positioned in the first section 12.

Along the path of travel defined by the screw conveyor 20, a number of heating elements, alternatively a single heating element, is distributed. The heating element or elements, not illustrated in Fig. 1a, heat the granulate material 16 while it is conveyed by the screw conveyor from the inlet of the first section 12 to an outlet 22 of the first section.

The granulate material 16 is heated to a temperature just below the melting point of the granulate material 16. In the presently preferred embodiment of the present invention, the screw conveyor 20 compresses the granulate material as it is conveyed along the path of travel.

The heating of the granulate material 16 is performed according to a specific heating profile. In one instance the heating elements may emit the same amount of heat at all positions along the path of travel and the speed of which the screw conveyor 20 conveys the granulate material 16 may be adapted to ensure that the temperature of the granulate material is above the melting point of the granulate material at the outlet 22.

In a second instance the heating element or elements may emit an increasing or decreasing amount of heat along the path of travel to ensure that the temperature of the granulate material 16 is near the melting point of the granulate material at the outlet 22.

Thirdly, the specific heating profile may include one or more temperature peaks along the path of travel, such as short or long bursts of heat emitted from the heating elements or element. The temperature peaks may be substantially equal, both in terms of amount and width/duration.

The screw conveyor 20 may be formed as a simple screw having a substantially constant diameter or height. In the alternative the screw conveyor 20 may be formed as a screw conveyor with gradually increasing or decreasing height so that the granulate material 16 is further compressed due to the gradually reduced size or space. In the embodiment where the screw conveyor 20 has a substantially constant height along the path of travel, the granulate material 16 may still be compressed, e.g. by the "new" or cold granulate material pushing the "old" or hot granulate material 16 located nearer the outlet 22 of the first section.

The operation of the heating elements and/or the screw conveyor is controlled by an external unit 24, e.g. a computer or specialised hardware and/or software monitoring the operation of the screw conveyor and/or the heating elements by receiving information regarding the number of revolutions per second of the screw conveyor and pressure and/or temperature information e.g. via sensors located inside the first section 12. The unit 24 may ensure that the temperature of the heating elements and/or the material is within predetermined ranges.

In Fig. 1a, the unit 24 is connected to the first section 12 via a cable 26 for transferring information and control signals back and forth between the unit 24 and the first section 12. Alternatively, the cable or wire 26 may be constituted by other links such as RF, IR, HF or other wireless transfer techniques.

From the outlet 22 of the first section 12, the heated and near-melted granulate material is transferred into the second section via an inlet 28. The material is fed to an extruder unit 30 including an additional heater unit, not illustrated, for heating the material above its melting point. As the "material includes a foaming additive that is released above a certain temperature, the foaming material will enter a gaseous state thereby creating a porous structure in the material. The expansion or transfer

of the foaming additive into gas is preferably done after the material has passed though the extruder unit 30.

To ensure that the porous structure is fixed, a cooling unit cools the material shortly after the porous structure has been established.

In Fig. 1a, the mesh-type tubular structure 34 exits the second section 14 via the outlet 36. The tubular mesh-structure 34 will be further processed as illustrated in Fig. 1b, or alternatively as illustrated in Fig. 1c.

In Fig. 1b, the structure 34 is cut into individual tubular elements using a cutting saw 38 located in a tower 40, the cutting wheel being mounted on a reciprocating arm moving in the direction of the arrow 42. The structure 34 is cut into smaller pieces that may be assembled in larger structures such as 44 which is a structure comprising 25 short pieces of the tubular mesh-structure 34. The 25 individual pieces of the tubular mesh-structure are then transferred into a heater unit 46 melting the ends of the pieces of the tubular mesh-structure so that the individual pieces are assembled and/or locked in a fixed structure which may then be used for purposes such as cleaning water, such as waste water.

In Fig. 1c, the mesh-type tubular structure 34 is cut lengthwise by means of a cutting knife 43 causing the mesh-type tubular structure to be converted into a substantially planar structure as is illustrated by 35. The substantially planar structure is introduced into a heating and pressing dye 47, in which the substantially planar structure 35 is converted into a corrugated structure, as is indicated by the reference numeral 37, whereupon the corrugated structure is introduced into a cutting station, in which the cutting saw 38 cuts the corrugated structure into individual corrugated plate elements, one of which is designated the reference numeral 45. The corrugated plate elements are to be described in greater details below with reference to Figs. 7a and 7b. In an alternative method of providing the corrugated plate element 45, the planar structure shown in Fig. 1c is cut into individual rectangular plane elements, which are then introduced into a set of forming and pressing tools providing the corrugated configuration.

In the presently preferred embodiment of the present invention, the extruder unit 30 is constituted by two oppositely rotating parts illustrated in greater details in Figs. 2, 3 and 4.

As seen from Fig. 2, the extruded material exits the extruder unit at extruder outlets 32 distributed in a circle. The distribution of the extruder outlets 32 ensures along with the rotation of the extruder heads 52 and 54 that the resulting structure is a tubular mesh-type structure.

Fig. 3 schematically illustrates an extruder comprising two extruder heads 52 and 54. The extruder heads 52 and 54 are two oppositely rotating circular heads. In other embodiments, the extruder unit may comprise two or more parallel moving parts, two parts moving or rotating in the same direction, or parts not moving or rotating themselves.

In Fig. 4, three alternative geometrical configurations of the extruder outlets are illustrated, referenced 32', 32", 32"', respectively. In the presently preferred embodiment of the present invention, the extruder outlets 32 define a substantially circular geometrical cross section, however, as illustrated in Fig. 4, the extruder outlets may define a substantially square 32', star-shaped 32", triangular 32"' or any polygon configurations such as elliptical, rectangular, truncated pyramidal, inverse truncated pyramidal, hexagonal, pentagonal or any combinations thereof.

Fig. 5 is a schematic illustration of an assembly of pieces of the tubular mesh-type tubular structure 34, assembled into a simple structure 44. The individual mesh-type tubular structure elements are joined together at the ends of the structures, however embodiments wherein the elements are joined together at other locations along the longitudinal axis of the elements may be envisioned as well as embodiments where the elements are joined along the entire lengths of the elements.

Fig. 6 is a schematic closer view of an element 48 illustrating the expanded surface of the threads 50 constituting the mesh-structure of the tubular element 48. The

threads 50 have an expanded surface due to the manufacturing process as described in relation to Fig. 1 wherein the foaming additives release a gas creating bubbles in the material. The enlarged surface is contemplated to allow a great or large amount of bacteria to grow on the structure or thread, e.g. the bacteria located nearest the thread 50 will be covered by other bacteria thereby allowing substantially only anaerobic bacteria to grow on the thread 50 itself.

In Fig. 7a, a pile of individual corrugated plate elements 45 is shown, which pile constitutes a highly compact structure as compared to the structure 44, i.e. the contact filter block 44 shown in Fig. 5. The saving of space by the provision of the corrugated plate element 45 is contemplated to provide a further advantage of the contact filter block as compared to the conventional contact filter blocks known in the art. In Fig. 7b, a contact filter block 44' is shown, which contact filter block is assembled from the corrugated plate elements 45, also shown in Fig. 7a. The corrugated plate elements 45 are joined together in Fig. 7b in a structure "back-to-back", as the corrugations of the one plate are joined to the opposite corrugations of the adjacent plate which has been turned upside down as compared to the pile shown in Fig. 7a. The structures 44' shown in Fig. 5 may be fixed by means of an adhesive or alternatively by the application of heat to the joined corrugations or at the end parts of the structure.

The combination of anaerobic and aerobic bacteria is contemplated to provide an improved cleaning effect on wastewater, as they each digest or decompose different types of waste.

"Comprises/comprising" when used in this specification is taken to specify the presence of stated features, integers, steps or components but does not preclude the presence or addition of one or more other features, integers, steps, components or groups thereof.

CLAIMS:

1. A method of producing structural elements of a contact filter block using an apparatus including:

a reservoir for storing granulate material having a first melting point, said reservoir having a first inlet and a first outlet, said granulate material including a foaming additive having a second melting point,

a heating and pressurising unit including a chamber having a second inlet and a second outlet, said second inlet in communication with said first outlet, a path of travel defined from said second inlet to said second outlet, said heating unit including heating and pressurising elements distributed along said path of travel,

an extruder unit mounted downstream relative to said heating and pressurising unit at said second outlet, said extruder unit further including an extruder heating unit and two oppositely rotating extruder heads or two parallel moving extruder heads defining an extruder outlet, said extruder unit generating a mesh-type tubular structure,

a cooling unit mounted at said extruder unit for rapidly cooling said granulate material, and

a measuring and cutting device for measuring and cutting elements having a predetermined length within a specific interval,

the method including the steps of:

supplying said granulate material to said heating and pressurising unit from said reservoir via said second inlet,

conveying said granulate material along said path of travel,

heating said granulate material to an elevated temperature and pressurising said granulate material to an elevated pressure while conveying said granulate material along said path in said heating and pressurising unit, said heating and pressurising performed according to a specific heating and pressurising profile,

transferring said heated and pressurised granulate material to said extruder unit,

heating said granulate material within said extruder heating unit to a temperature above said first melting point and/or at or above said second melting point,

extruding said mesh-type tubular structure from said granulate material, said heating of said granulate material causing an expansion of said foaming additive causing said mesh-type tubular structure to obtain a porous structure,

cooling said extruded mesh-type tubular structure by said cooling unit according to a specific cooling profile thereby stopping or halting expansion of said granulate material and/or said foaming additive and locking or fixating said porous structure of said mesh-type tubular structure, and

cutting said mesh-type tubular structure using said measuring and cutting unit.

2. The method according to claim 1, said cutting of said mesh-type tubular structure includes cutting said mesh-type tubular structure into discrete tubular elements and the method further including joining said tubular elements together side by side in said contact filter block.

3. The method according to claim 1, said cutting of said mesh-type tubular structure includes cutting said mesh-type tubular structure lengthwise and transversally for providing discrete elements, and the method further includes a step of forming said discrete element by the application of heat to said elements into corrugated plate elements and arranging said corrugated elements on top of one another for transportation and further including the step of joining said corrugated elements together back to back for providing a contact filter block.

4. The method according to any of the claims 1-3, wherein said extruder unit includes a multitude of nozzles each defining a cross-section having a substantially square, round, semi-round, rectangular, oblong, triangular, semi-hyperbolic, trapeze, inverse trapeze or any combinations thereof.

5. The method according to any of the claims 1-4, wherein said first melting point is higher than, equal to or lower than said second melting point.

6. The method according to claim 5, wherein said granulate material is HDPE and wherein said granulate material further includes an amount of PP or LDPE or a combination thereof, and/or includes PVC, NYLON, ABS or any other polymer material.

7. The method according to any of the claims 1-6, wherein the weight of said foaming additive constitutes 3-10% of the weight of the granulate material.

8. The method according to any of the claims 1-7, wherein said granulate material is heated to 140 to 300 degrees centigrade.

9. The method according to any of the claims 1-8 wherein said granulate material further includes a colouring additive.

10. The method according to any of the claims 1-9 further including:

providing a feed screw in said path of travel, said feed screw defining a cylindrical or conical geometry.

11. The method according to any of the claims 1-10 wherein said heating and pressurising unit pressurises said granulate material to a pressure within the interval 5 to 5000 bar.

12. A contact filter block for the construction of filters for biological treatment of waste water including:

a plurality of individual structural elements which are joined together each having a mesh-type outside surface, the individual structural elements being produced using the method according to any of the claims 1-11, said individual structural elements having a porous structure.

13. The contact filter block according to claim 12, said porous structure having a surface of no less than 25-800 m^2/m^3.

14. A contact filter block for the construction of filters for biological treatment of waste water including:

a plurality of tubular elements which are joined together each having a mesh-type outside surface, said tubular elements being produced using the method according to any of the claims 1, 2 or 4-13, and having a surface roughness within the interval 5 to 1000, all measures being Ra, Rz or Rmax.

15. A contact filter block for the construction of filters for biological treatment of waste water including:

a plurality of corrugated plate elements which are joined together having the corrugations of the one plate element facing the corrugations of the adjacent plate element, each of said plate elements having a mesh type outside surface, said corrugated plate elements being produced due to the method according to any of the claims 1, 3-13, and having a surface roughness within the interval 5 to 1000, all measures being Ra, Rz or Rmax.

16. An apparatus for producing structural elements of a contact filter block, said apparatus including:

a reservoir for storing granulate material having a first melting point, said reservoir having a first inlet and a first outlet, said granulate material including a foaming additive having a second melting point,

a heating and pressurising unit including a chamber having a second inlet and a second outlet, said second inlet in communication with said first outlet, a path of travel defined from said second inlet to said second outlet, said heating unit including heating and pressurising elements distributed along said path of travel,

an extruder unit mounted downstream relative to said heating and pressurising unit at said second outlet, said extruder unit further including an extruder heating unit and two oppositely rotating extruder heads or two parallel moving extruder heads defining an extruder outlet, said extruder unit generating a mesh-type tubular structure,

a cooling unit mounted at said extruder unit for rapidly cooling said mesh-type tubular structure, and

a measuring and cutting device for measuring and cutting structural elements having a predetermined length within a specific interval.

17. A method for producing structural elements of a contact filter block substantially as herein described with reference to any one of the embodiments illustrated in the accompanying drawings.

18. A contact filter block for the construction of filters for biological treatment of waste water substantially as herein described with reference to any one of the embodiments illustrated in the accompanying drawings.

19. An apparatus for producing structural elements of a contact filter block substantially as herein described with reference to any one of the embodiments illustrated in the accompanying drawings.

EXPO-NET DANMARK A/S

ADVERTISEMENT

Pursuant to Order 58 Rule 10(1) *Federal Court Rules*

Proceedings: No. NSD 428 of 2009 – Expo-Net Danmark A/S (Applicant) v Buono-Net Australia Pty Ltd (First Respondent), Raffaele Buono (Second Respondent), Clelia Buono (Third Respondent)

Amendments: Expo-Net Danmark A/S will seek an order under s 105 of the *Patents Act 1990 (Cth)* directing amendment of Patents Nos 2006226731 and 2007100339 as follows:

(i) No. 2006226731 - Delete pages 1 to 23 and insert new pages 1 to 23 filed herewith; and

(ii) No. 2007100339 - Delete pages 1 to 19 and insert new pages 1 to 19 filed herewith.

Address for Service: Watermark Patent & Trade Mark Attorneys, Building 1, Binary Centre, 3 Richardson Place, North Ryde NSW 2113.

A person intending to oppose the application who is not a party to the proceedings or pending proceedings must, not later than 28 days after publication of the advertisement, give written notice of that intention to the Commissioner and to the persons who are parties to the proceedings.

Order NOT Entered

IN THE FEDERAL COURT OF AUSTRALIA
NEW SOUTH WALES DISTRICT REGISTRY
GENERAL DIVISION

No: **(P)NSD428/2009**

EXPO-NET DANMARK A/S
Applicant

BUONO-NET AUSTRALIA PTY LTD (ACN 002 040 495)
First Respondent

RAFFAELE BUONO
Second Respondent

CLELIA BUONO
Third Respondent

ORDER

JUDGE: Justice Bennett

DATE OF ORDER: 18 February 2010

WHERE MADE: Sydney

THE COURT:

Applicant's further Security for Costs

1. **DIRECTS** that on 18 February 2010, the Applicant shall provide further security for costs in the amount of $50,000 by way of cheque in favour of the Federal Court of Australia.

2. **DIRECTS** that the Applicant's further security pursuant to Order 1 is to be invested into an interest bearing account.

Inspection

3. **DIRECTS** that pursuant to Federal Court Rules Or 17 r1, the Respondents are to make available for inspection by the Respondents' legal representatives and expert(s) on or

before 11 March 2010 the apparatus referred to in paragraph 12.1 of the Respondents' Defence.

4. **DIRECTS** that for the purpose of Order 1, the parties are to liaise in relation to:

   (a) Whether such inspection is to be conducted pursuant to any confidentiality regime and, if so, to finalise the terms of any such regime prior to inspection taking place; and

   (b) The arrangements for the inspection including the place and time for the inspection and the operation of the equipment during the inspection.

Amendment of Patents

5. **DIRECTS** that on or before 23 February 2010 the Applicant gives notice to the Commissioner of Patents pursuant to Federal Court Rules Or 58 r10(1) of its intention to seek leave to amend Patent No 2006226731 and Innovation Patent No 2007100339 ("the Patents").

6. **GRANTS LEAVE** to the Applicant to rely on its Notice of Motion filed on 11 December 2009 as its application for leave to amend the Patents pursuant to Federal Court Rules Or 58 r10(4).

7. **DIRECTS** that the Applicant file and serve its evidence in support of the Notice of Motion filed on 11 December 2009 on or before 8 March 2010.

Further Evidence

In chief by the Applicant

8.1 **DIRECTS** that the applicant file and serve on or before 23 April 2010 its affidavit evidence in chief on alleged infringement.

Further evidence in chief by the Respondents and the Cross-claimant

8.2 **DIRECTS** that the respondents and the cross-claimant o file and serve on or before 23 April 2010 expert evidence on the issues identified in paragraph 5.1 of the orders made

on 10 September 2009 and any evidence, including expert evidence in support of the cross-claim.

Evidence in answer by the respondents on alleged infringement

8.3 **DIRECTS** that the respondents file and serve on or before 21 May 2010 all factual and expert evidence in answer to the infringement claims.

Evidence in answer by the cross-respondent on alleged invalidity

8.4 DIRECTS that the cross-respondent file and serve on or before 21 June 2010 all factual and expert evidence in answer to the cross-claim.

Evidence in reply

8.5 DIRECTS that the parties file and serve any evidence in reply on or before 11 August 2010.

Further directions

9. **ORDERS** that the matter be listed for further directions at 9:30 a.m. on 20 August 2010.

Liberty to apply

10. **ORDERS** that each party shall have liberty to apply on three days notice.

Date that entry is stamped:

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IN THE MATTER OF Australian Patent No. 2007100339 in the name of Expo-Net Danmark A/S

STATEMENT OF PROPOSED AMENDMENTS

1. Delete pages 1 to 19 and insert new pages 1 to 19 filed herewith. (A marked-up copy of the amended pages, showing the nature of the amendments, is also enclosed.)

DATE: 23 February 2010

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A CONTACT FILTER BLOCK, A METHOD OF PRODUCING STRUCTURAL ELEMENTS OF A CONTACT FILTER BLOCK AND AN APPARATUS FOR PRODUCING STRUCTURAL ELEMENTS OF A CONTACT FILTER BLOCK

The present invention relates to a method of producing structural elements of a contact filter block, a contact filter block obtained by the method and an apparatus for producing structural elements of a contact filter block using the method.

Related techniques have been described in publications such as US 2004/0022973, US 3,758,359, US 4,089,667, US 5,015,123, US 5,772,870, US 5,882,510, US 6,217,800, US 6,333,088, US 6,342,158, US 6,551 ,818, EP 1 142 837 A and KR 9611746. Reference is made to the above mentioned patent publications and the above US patents are hereby incorporated in the present specification by reference in their entirety for all purposes.

A first aspect of the present invention relates to a method of producing tubular elements of a contact filter block using an apparatus including:

a reservoir for storing granulate material having a first melting point, said reservoir having a first inlet and a ~~second inlet~~first outlet, said granulate material including a foaming additive having a second melting point,

a heating and pressurising unit including a chamber having a second inlet and a second outlet, said second inlet in communication with said first outlet, a path of travel defined from said second inlet to said second outlet, said heating unit including heating and pressurising elements distributed along said path of travel,

an extruder unit mounted downstream relative to said heating and pressurising unit at said second outlet, said extruder unit further including an extruder heating unit, said extruder unit including two oppositely rotating extruder ~~units~~ heads defining an extruder outlet, said extruder unit generating a mesh-type tubular structure,

a cooling unit mounted at said extruder unit for rapidly cooling said granulate material, and

a measuring and cutting device for measuring and cutting elements having a predetermined length within a specific interval,

the method including at least the steps of:

supplying said granulate material to said heating and pressurising unit from said reservoir via said second inlet,

conveying said granulate material along said path of travel,

heating said granulate material to an elevated temperature and pressurising said granulate material to an elevated pressure while conveying said granulate material along said path in said heating and pressurising unit, said heating and pressurising performed according to a specific heating and pressurising profile,

transferring said heated and pressurised granulate material to said extruder unit,

heating said granulate material within said extruder heating unit to a temperature above said first melting point and/or at or above said second melting point,

extruding said mesh-type tubular structure from said granulate material, said heating of said granulate material causing an expansion of said foaming additive causing said mesh-type tubular structure to obtain ~~an~~ porous structure,

cooling said extruded mesh-type tubular structure by said cooling unit according to a specific cooling profile thereby stopping or halting expansion of said granulate material and/or said foaming additive and locking or fixating said porous structure of said mesh-type tubular structure, and

cutting said mesh-type tubular structure into discrete tubular elements using said measuring and cutting unit.

The basic idea according to the present invention is to provide improvements relating to contact filter blocks, in particular to the tubular elements of the contact filter blocks for improving the properties of the contact filter blocks.

According to a first embodiment of the method according to the first aspect of the present invention, the cutting of the mesh-type tubular structure involves cutting the mesh-type tubular structure into individual or discrete tubular elements which are in a further step joined together side by side for producing a contact filter block. The individual or discrete tubular elements may be joined or sealed together by means of an adhesive or by the application of heat. The step of joining or assembling the individual and discrete tubular elements together may

provide a contact filter block of the conventional cubic configuration or a substantially ~~or~~ box-like configuration or may alternatively provide a contact filter block having a base surface from which the individual or discrete tubular elements extend, preferably perpendicularly from the base surface. The base surface may have any relevant geometrical configuration such as a square, a rectangle, a circle, a triangle, a polygonal or a rhombic configuration.

According to an alternative or second embodiment of the method according to the first aspect of the present invention, the cutting of the mesh-type tubular structure involves transforming the mesh-type tubular structure into a plane structure by cutting lengthwise the mesh-type tubular structure and forming the plane web produced from the mesh-type tubular structure into a corrugated structure and further cutting transversally the corrugated structure into individual corrugated plate elements. In the process of producing the corrugated plate elements from the mesh-type tubular structure, the cutting lengthwise and the cutting transversally may be performed in~~the~~ one action before the individual corrugated plate elements be deformed into the corrugated configuration by the application of heat and/or pressure to the element. Alternatively, the mesh-type tubular structure may be cut lengthwise in a separate step, whereupon for providing a web which is forced through a deforming dye by the application of heat and/or pressure to the web for producing a corrugated web, which web is then cut into individual corrugated plate elements.

By the provision of corrugated structural plate elements, a further advantage in relation to the volume or space used for transportation is reduced as the individual corrugated plate elements may be positioned on top of one another occupying a fairly small space as no or substantially no space is left between the corrugated plate elements. At the ~~side~~ site of the application, the corrugated plate elements are joined together back to back as the corrugations of the one corrugated plate element are joined to the corrugations of the adjacent corrugated plate elements, thereby providing in the inter space between the individual adjacent corrugations through-going apertures similar to the apertures produced by the tubular elements produced in accordance with the embodiment of the method according to the first aspect of the present invention.

In the present context, the term 'a foaming additive' is to be construed as a generic term including any material present in solid, liquid or gaseous phase which allows the granulate material to be expanded for providing the porous structure of the mesh-type tubular structure produced in accordance with the method according to the first aspect of the present invention. Furthermore, granulate material is also to be construed including any material conventionally used in the polymer or plastics industry in the extrusion technical field and may include solid granulate material or polymer material included in a semi-pasteous or liquid state dependent on the actual melting point of the polymer composition.

It is further construed that any two-component polymer system, the one component constituting a component similar to the granulate material and the second component constituting a component similar to the foaming additive, which system provides thatas the two components are brought together, a physical and chemical reaction similar to the reaction caused by the straight forward addition of the foaming additive to the granulate material within the heating and pressurising unit is also to be contemplated as part of the components used or usable in accordance with the teachings of the present invention.

The primary use of the structural elements produced according to the first aspect of the present invention is as elements in a filter block. The method is primarily directed towards the advantageous properties of the structural elements, namely the enlarged surface originating from the release of the foaming additive. The increase in surface area is contemplated to be 10-50%, 50% to 100% or even more compared to structural elements produced according to traditional production methods.

In the present specification, the term a tubular element is to be construed as a geometrical element having a generator such as a circle, an ellipse, a square, a triangle or a rectangle and being generated by moving the geometrical generator along a generator line.

Furthermore, in the present context, the terms heating and pressurising unit and extruder unit are defining two sections of an apparatus conventionally known as an extruder. In the present context, the above terms heating and pressurising unit and extruder units are used solely for the purpose of defining

specific properties and functions of the respective parts or sections of the extruder.

Furthermore, it is to be understood that the term extruder unit may be considered equivalent to or identical to the part of the conventional extruder commonly known as the dye head.

Additionally, the method is contemplated to reduce the amount of material used for producing the structural elements by 20% to 50%, or even more, as other production methods for producing elements having a large surface requires larger amounts of material.

The large surface of the structural elements is contemplated to provide space for one, two or more colonies of bacteria, of aerobic and/or anaerobic types. The combination of aerobic and anaerobic bacteria is contemplated to ensure an advantageous rate of decomposition of waste or biological material in water. Also, the structural elements are contemplated to ensure that a large amount of bacteria will grow on the structural elements within a short period of time, such as within two weeks. It is contemplated that anaerobic bacteria will grow at, around or near the joints of the mesh-type structure and aerobic bacteria will grow at or on the parts between the joints.

Dependent on the heating of the granulate material and also dependent on the cooling of the extruded mesh-type tubular structure after extrusion ~~may cause~~ the individual strands of the mesh-type structure may~~to~~ be pressed together provided the strands are allowed to flow prior to cooling or alternatively, the individual strands of the mesh-type structure may be positioned on top of one another providing a more irregularly configurate type structure improving or increasing the joints of the mesh- type structure as compared to a structure in which the individual strands of the mesh-type structure are joint or pressed together into a shallow structure. It is, furthermore, contemplated that the more irregularly configurated structure may preserve the bacteria from being killed ~~provided~~ if the contact filter block is exposed to toxic material, which is~~are~~ harmful or mortal to the bacteria.

The reservoir may be constituted by a simple funnel into which a granulate material is poured automatically, semi-automatically or manually. Alternatively, the reservoir may be a tank or the like, for continuously supplying granulate

material to the apparatus. The reservoir may have at least two inlets and/or outlets for refilling the reservoir and for delivering the granulate material to the apparatus.

The heating and pressurising unit receives the granulate material from the reservoir and heats and pressurises the granulate material. The granulate material is heated up to but preferably not beyond the melting point of the granulate material. In alternative embodiments, the granulate material may be heated above or beyond the melting point.

The pressure to which the granulate material is pressurised is preferably within the interval 5 to 5000 bar, such as 5 to 50 bar, such as 50 to 1000 bar, such as 60 to 900 bar, such as 65 to 850 bar, such as 75 to 750 bar, such as 100 to 650 bar, such as 150 to 600 bar, such as 200 to 500 bar, such as 275 to 450 bar, such as 300 to 400 bar, such as 325 to 375 bar, such as 5 to 25 bar, such as 25 to 45 bar, such as 45 to 75 bar, such as 75 to 150 bar, such as 150 to 200 bar, such as 200 to 275 bar, such as 275 to 340 bar, such as 340 to 375 bar, such as 375 to 425 bar, such as 425 to 500 bar, such as 500 to 550 bar, such as 550 to 625 bar, such as 625 to 700 bar, such as 700 to 775 bar, such as 775 to 850 bar, such as 850 to 1000 bar, preferably around 350 bar.

The extruder heating unit provides an additional heating of the material. When the extruder heating unit heats the material, the foaming additive is contemplated to reach its foaming state and cause an expansion or creation of bubbles in the material, thereby creating a porous structure in the material.

In alternative embodiments, the extruder heating unit may be omitted, and the heating and pressurising unit may provide the needed heat for the foaming additive to expand.

For ensuring that the porous structure in the material is fixed or not changed, a cooling unit is provided. The cooling unit cools the material after it exits the extruder unit which is contemplated to stop the expansion of the foaming additive. The cooling may be obtained by using water, air, any fluid or liquid.

The extruder unit extrudes the mesh-type tubular structure from the heated material. In the presently preferred embodiment of the present invention, the extruder unit includes two oppositely rotating extruder heads or two parallel moving extruder heads, and the extruder heads defines the extruder outlet or dye

head. The oppositely rotating extruder heads provide a relative motion between the rotating extruder heads as the one head may be stationary or be moving at a lower speed in the one direction as compared to the other head, or alternatively, the other head may be stationary or rotating oppositely to the first head or at a lower speed as compared to the first head.

Furthermore, for providing specifically configurated mesh-type tubular structure, the rotation may be oscillating or have varying speeds of one or both of the rotating extruder heads for providing a specific configuration of the mesh-type structure of the mesh-type tubular structure. Further, the extruder unit may include a multitude of nozzles each defining a cross-section having a substantially square, round, semi—round, rectangular, oblong, triangular, semi-hyperbolic, trapeze, inverse trapeze shaped or any combinations thereof, preferably round. In the present context, the term nozzle is used for describing the outlets of the extruder.

The measuring and cutting device is used for measuring and cutting the mesh-type tubular structure into discrete elements having a predetermined length within a specific interval, i.e. the resulting discrete elements may have an overall dimension with a measurement uncertainty. The measurements may be performed by machine visual inspection, mechanical determination of the length of the elements or any other automatic or semi-automatic methods or techniques.

In performing the method according to the first aspect of the present invention, the granulate material is supplied from the reservoir into the heating and pressurising unit. The heating and pressurising unit has an inlet through which the granulate material is supplied. The inlet may be in fluid communication with the reservoir.

The granulate material is conveyed along the path of travel defined in the heating and pressurising unit while the heating units heats the granulate material. The heating is performed according to a specific heating profile.

In a first instance the heating elements may emit the same amount of heat at all positions along the path of travel, i.e. the same number of watts is emitted from all elements. In a second instance the heating element or elements may emit an increasing or decreasing amount of heat along the path of travel to ensure that the temperature of the granulate material is near the melting point at

the outlet of the heating and pressurising unit. In a third instance, the specific heating profile may include one or more temperature peaks along the path of travel, such as short and/or longer bursts of heat emitted from the heating elements or element. The temperature peaks may be substantially equal or in the alternative different, both in terms of amount and width/duration, further alternatively, a combination of two or more substantially equal peaks and one or more peaks different from the two.

Further, the speed at~~of~~ which the granulate material is conveyed along the path of travel may be adapted to ensure that the temperature of the granulate material is near or at the melting point of the granulate material at the outlet of the heating and pressurising unit.

The heating and pressurising unit may also increase or decrease the pressure of the granulate material as it is conveyed from the inlet to the outlet of the heating and pressurising unit. The change in pressure may be performed according to a specific pressurising profile.

After the material has been extruded, the extruder heating unit may provide extra heat for heating and thereby causing the foaming additive to expand and thereby create a porous structure in the material. The cooling unit cools the material to a temperature below the temperature at which the foaming additive expands.

The granulate material used in the method according to the first aspect of the present invention is preferably HDPE. Further, the granulate material may further include an amount of PP or LDPE or a combination thereof, and/or may include PVS, NYLON, ABS or any other polymer materials.

According to the teachings of the present invention, the weight of the foaming additive may constitute 0,1% to 50%, such as 1 % to 40%, such as 5% to 35%, such as 8% to 20%, such as 9% to 12%, such as 0,1 % to 5%, such as 5% to 15%, such as 15% to 25%, such as 25% to 35%, such as 35% to 45%, such as 45% to 50%, preferably 3-5% or 5-10% of the weight of the granulate material.

According to the basic realisation of the method according to the present invention, the granulate material may be heated to 140 to 300 degrees centigrade, dependent on the polymer material or materials in question.

Additionally, the granulate material may further include a colouring additive, such as green, black or any other colour.

Particularly, the method according to the first aspect of the present invention may further comprise providing a feed screw in the path of travel, the feed screw defining a cylindrical or conical geometry. The feed screw may then constitute a conveyor for conveying the material from the inlet of the heating and pressurising unit to the ~~output~~ outlet thereof. The geometrical structure of the feed screw may perform the pressurising of the material as it is conveyed along the path of travel.

A second aspect of the present invention relates to a contact filter block for the construction of filters for biological treatment of waste water comprising:

a plurality of individual tubular elements which are joined together each having an mesh-type outside surface, the individual tubular elements being produced using the method according to the first aspect of the invention, said individual tubular elements having a porous structure.

Said plurality may comprise e.g. 4, 6, 8, 10, 12, 16 or even more individual tubular elements, such as e.g. 25, 36, 64 or 100.

The porous structure of the contact filter block is contemplated to provide a large surface on which a multitude of bacteria may grow. The bacteria are then contemplated to break-down or decompose waste in water flowing through the contact filter block. The contact filter block may be positioned in the ground or in a waste water treatment facility.

In a basic realisation of the contact filter block according to the second aspect of the present invention, ~~It~~ it is contemplated that the porous structure may have a surface of no less than 25-800 m^2/m^3, such as 90-100 m^2/m^3, 100-150 m^2/m^3, 150-200 m^2/m^3, or 200-300 m^2/m^3.

As discussed earlier, the large surface area is contemplated to provide space for large amounts of bacteria for decomposing waste and/or biological material in water.

The surface roughness may be further described by the parameters Ra, Rz and Rmax. The surface roughness is measured in µm.

In embodiments of the present invention, the parameter Ra has a value in the interval 5 to 1000, such as 7 to 700, such as 10 to 600, such as 25 to 500,

such as 50 to 450, such as 75 to 350, such as 100 to 300, such as 150 to 250, such as 7 to 15, such as 15 to 30, such as 30 to 50, such as 50 to 75, such as 75 to 150, such as 150 to 225, such as 225 to 300, such as 300 to 350, such as 350 to 400, such as 400 to 500, all measures being Ra, Rz and Rmax.

In embodiments of the present invention, the parameter Rz has a value in the interval 5 to 4000, such as 20 to 2000, such as 25 to 1800, such as 40 to 1500, such as 75 to 1300, such as 125 to 1200, such as 200 to 1100, such as 275 to 1000, such as 350 to 850, such as 400 to 700, such as 450 to 600, such as 500 to 550, such as 20 to 50, such as 50 to 100, such as 100 to 150, such as 150 to 225, such as 225 to 300, such as 300 to 375, such as 375 to 450, such as 450 to 550, such as 550 to 675, such as 675 to 775, such as 775 to 850, such as 850 to 950, such as 950 to 1100, such as 1100 to 1250, such as 1250 to 1400, such as 1400 to 1600, such as 1600 to 1800, such as 1800 to 2000, all measures being Ra, Rz and Rmax.

In embodiments of the present invention, the parameter Rmax has a value in the interval 5 to 5000, such as 30 to 3000, such as 40 to 2800, such as 50 to 2600, such as 75 to 2400, such as 150 to 2200, such as 200 to 2000, such as 275 to 1800, such as 375 to 1700, such as 450 to 1550, such as 550 to 1400, such as 650 to 1200, such as 775 to 1000, such as 850 to 950, such as 30 to 40, such as 40 to 50, such as 50 to 75, such as 75 to 100, such as 100 to 175, such as 175 to 275, such as 275 to 350, such as 350 to 475, such as 475 to 575, such as 575 to 700, such as 700 to 900, such as 900 to 1200, such as 1200 to 1500, such as 1500 to 1800, such as 1800 to 2000, such as 2000 to 2300, such as 2300 to 2600, such as 2600 to 2800, such as 2800 to 3000, all measures being Ra, Rz and Rmax.

A third aspect of the present invention relates to an apparatus for producing tubular elements of a contact filter block, the apparatus including:

a reservoir for storing granulate material having a first melting point, said reservoir having a first inlet and a ~~second inlet~~first outlet, said granulate material including a foaming additive having a second melting point,

a heating and pressurising unit including a chamber having a second inlet and a second outlet, said second inlet in communication with said first outlet, a path of travel defined from said second inlet to said second outlet, said heating

unit comprising heating and pressurising elements distributed along said path of travel,

an extruder unit mounted downstream relative to said heating and pressurising unit at said second outlet, said extruder unit further including an extruder heating unit, said extruder unit including two oppositely rotating extruder heads defining an extruder outlet, said extruder unit generating a mesh-type tubular structure,

a cooling unit mounted at said extruder unit for rapidly cooling said mesh-type tubular structure, and a measuring and cutting device for measuring and cutting tubular elements having a predetermined length from said tubular structure.

The present invention will be further described with reference to the attached drawings in which:

Fig. 1a is a schematic illustration of an apparatus for producing a mesh-type tubular structure,

Fig. 1b is a schematic illustration of a first embodiment of an apparatus for processing the mesh-type tubular structure into tubular elements,

Fig. 1c is a schematic illustration of a second embodiment of processing the mesh- type tubular structure into corrugated plate elements,

Fig. 2 is a schematic illustration of a part of an extruder unit,

Fig. 3 is a schematic illustration of the extruder unit of fig. 2,

Fig. 4 is schematic illustrations of alternative embodiments of extruder unit outlets,

Fig. 5 is a schematic illustration of a plurality of tubular elements connected in a filter block,

Fig. 6 is a zoomed schematic illustration of a part of a tubular element,

Fig. 7a is a schematic illustration of a pile of corrugated plate elements, and

Fig. 7b is a schematic illustration of a plurality of corrugated plate elements connected in a filter block.

Fig. 1a is a schematic illustration of an apparatus 10 for producing a mesh-type tubular structure. The apparatus 10 comprises a first section 12 and a second section 14. The first section 12 receives granulate material 16 via an inlet

18 constituted by a funnel. Alternatively, the inlet 18 may be in contact with a larger reservoir for continuously supplying granulate material 16 to the apparatus 10. The granulate material comprises a foaming additive that, when heated above a certain temperature, expands and thereby creates bobbles in the melted or soft granulate material. When the foaming additive expands the granulate material is probably not granulate any more, but a soft mass.

The first section 12 receives the granulate material which is then fed to a screw conveyor 20 defining an axis or path of travel along which the granulate material is transported. The screw conveyor 20 is positioned in the first section 12.

Along the path of travel defined by the screw conveyor 20, a number of heating elements, alternatively a single heating element, is distributed. The heating element or elements, not illustrated in Fig. 1a, heats the granulate material 16 while it is conveyed by the screw conveyor from the inlet of the first section 12 to an outlet 22 of the first section.

The granulate material 16 is heated to a temperature just below the melting point of the granulate material 16. In the presently preferred embodiment of the present invention, the screw conveyor 20 compresses the granulate material as it is conveyed along the path of travel.

The heating of the granulate material 16 is performed according to a specific heating profile. In one instance the heating elements may emit the same amount of heat at all positions along the path of travel and the speed of which the screw conveyor 20 conveys the granulate material 16 may be adapted to ensure that the temperature of the granulate material is above the melting point of the granulate material at the outlet 22.

In a second instance the heating element or elements may emit an increasing or decreasing amount of heat along the path of travel to ensure that the temperature of the granulate material 16 is near the melting point of the granulate material at the outlet 22.

Thirdly, the specific heating profile may include one or more temperature peaks along the path of travel, such as short or long bursts of heat ~~emitting~~ emitted from the heating elements or element. The temperature peaks may be substantially equal, both in terms of amount and width/duration.

The screw conveyor 20 may be formed as a simple screw having a substantially constant diameter or height. In the alternative the screw conveyor 20 may be formed as a screw conveyor with gradually increasing or decreasing height so that the granulate material 16 is further ~~compresses~~ compressed due to the gradually reduced size or space. In the embodiment where the screw conveyor 20 has a substantially constant height along the path of travel, the granulate material 16 may still be compressed, e.g. by the "new" or cold granulate material pushing the "old" or hot granulate material 16 located nearer the outlet 22 of the first section.

The operation of the heating elements and/or the screw conveyor is controlled by an external unit 24, e.g. a computer or specialised hardware and/or software monitoring the operation of the screw conveyor and/or the heating elements by receiving information regarding the number of revolutions per second of the screw conveyor and pressure and/or temperature information e.g. via sensors located inside the first section 12. The unit 24 may ensure that the temperature of the heating elements and/or the material is within predetermined ranges.

In Fig. 1a, the unit 24 is connected to the first section 12 via a cable 26 for transferring information and control signals back and forth between the unit 24 and the first section 12. Alternatively, the cable or wire 26 may be constituted by other links such as RF, IR, HF or other wireless transfer techniques.

From the outlet 22 of the first section 12, the heated and near-melted granulate material is transferred into the second section via an inlet 28. The material is fed to an extruder unit 30 including an additional heater unit, not illustrated, for heating the material above its melting point. As the material includes a foaming additive that is released above a certain temperature, the foaming material will enter a gaseous state thereby creating a porous structure in the material. The expansion or transfer of the foaming additive into gas is preferably done after the material has passed though the extruder unit 30.

To ensure that the porous structure is fixed, a cooling unit cools the material shortly after the porous structure has been established.

In Fig. 1a, the mesh-type tubular structure 34 exits the second section 14 via the outlet 36. The tubular mesh-structure 34 will be further processed as illustrated in Fig. 1b, or alternatively as illustrated in Fig. 1c.

In Fig. 1b, the structure 34 is cut into individual tubular elements using a cutting saw 38 located in a tower 40, the cutting wheel being mounted on a reciprocating arm moving in the direction of the arrow 42. The structure 34 is cut into smaller pieces that may be assembled in larger structures such as 44 which is a structure comprising 25 short pieces of the tubular mesh-structure 34. The 25 individual pieces of the tubular mesh-structure ~~is~~ are then transferred into a heater unit 46 melting the ends of the pieces of the tubular mesh-structure so that the individual pieces are assembled and/or locked in a fixed structure which may then be used for purposes such as cleaning water, such as waste water.

In Fig. 1c, the mesh-type tubular structure 34 is cut lengthwise by means of a cutting knife 436 causing the mesh-type tubular structure to be converted into a substantially planar structure as is illustrated by 35. The substantially planar structure is introduced into a heating and pressing dye 47, in which the substantially planar structure 35 is converted into a corrugated structure, as is indicated by the reference numeral 37, whereupon the corrugated structure is introduced into a cutting station, in which the cutting saw 38 cuts the corrugated structure into individual corrugated plate elements, one of which is designated the reference numeral 45. The corrugated plate elements are to be described in greater details below with reference to Figs. 7a and 7b. In an alternative method of providing the corrugated plate element 45, the planar structure shown in Fig. 1c is cut into individual rectangular plane elements, which are then introduced into a set of forming and pressing tools providing the corrugated configuration.

In the presently preferred embodiment of the present invention, the extruder unit 30 is constituted by two oppositely rotating parts illustrated in greater details in Figs. 2, 3 and 4.

As seen from Fig. 2, the extruded material exits the extruder unit at extruder outlets 32 distributed in a circle. The distribution of the extruder outlets 32 ensures along with the rotation of the extruder heads 52 and 54 that the resulting structure is a tubular mesh-type structure.

Fig. 3 schematically illustrates an extruder comprising two extruder heads 52 and 54. The extruder heads 52 and 54 are two oppositely rotating circular heads. In other embodiments, the extruder unit may comprise two or more parallel moving parts, two parts moving or rotating in the same direction, or parts not moving or rotating themselves.

In Fig. 4, three alternative geometrical configurations of the extruder outlets are illustrated, referenced 32', 32", 32"', respectively. In the presently preferred embodiment of the present invention, the extruder outlets 32 define a substantially circular geometrical cross section, however, as illustrated in Fig. 4, the extruder outlets may define a substantially square 32', star-shaped 32", triangular 32"' or any polygon configurations such as elliptical, rectangular, truncated pyramidal, inverse truncated pyramidal, hexagonal, pentagonal or any combinations thereof.

Fig. 5 is a schematic illustration of an assembly of pieces of the tubular mesh-type -structure 34, assembled into a simple structure 44. The individual mesh-type tubular structure elements are joined together at the ends of the structures, however embodiments wherein the elements are joined together at other locations along the longitudinal axis of the elements may be envisioned as well as embodiments where the elements are joined alongt the entire lengths of the elements.

Fig. 6 is a schematic closer view of an element 48 illustrating the expanded surface of the threads 50 constituting the mesh-structure of the tubular element 48. The threads 50 have an expanded surface due to the manufacturing process as described in relation to Fig. 1 wherein the foaming additives release a gas creating bubbles in the material. The ~~enlarges~~ enlarged surface is contemplated to allow a great or large amount of bacteria to grow on the structure or thread, e.g. the bacteria located nearest the thread 50 will be covered by other bacteria thereby allowing substantially only anaerobic bacteria to grow on the thread 50 itself.

In Fig. 7a, a pile of individual corrugated plate elements 45 is shown, which pile constitutes a highly compact structure as compared to the structure 44, i.e. the contact filter block 44 shown in Fig. 5. The saving of space by the provision of the corrugated plate element 45 is contemplated to provide a further advantage of

the contact filter block as compared to the conventional contact filter blocks known in the art. In Fig. 7b, a contact filter block 44' is shown, which contact filter block is assembled from the corrugated plate elements 45, also shown in Fig. 7a, as tThe corrugated plate elements 45 are joined together in Fig. 7b in a structure "back-to-back", as the corrugations of the one plate are joined to the opposite corrugations of the adjacent plate which has been turned upside down as compared to the pile shown in Fig. 7a. The structures 44' shown in Fig. 5 may be fixated by means of an adhesive or alternatively by the application of heat to the joined corrugations or at the end parts of the structure.

The combination of anaerobic and aerobic bacteria is contemplated to provide an improved cleaning effect on wastewater, as they each digest or decompose different types of waste.

THE CLAIMS DEFINING THE INVENTION ARE AS FOLLOWS:

1. A method of producing tubular elements of a contact filter block using an apparatus including:

a reservoir for storing granulate material having a first melting point, said reservoir having a first inlet and a ~~second inlet~~first outlet, said granulate material including a foaming additive having a second melting point,

a heating and pressurising unit including a chamber having a second inlet and a second outlet, said second inlet in communication with said first outlet, a path of travel defined from said second inlet to said second outlet, said heating unit including heating and pressurising elements distributed along said path of travel,

an extruder unit mounted downstream relative to said heating and pressurising unit at said second outlet, said extruder unit further including an extruder heating unit, said extruder unit including two oppositely rotating extruder ~~units~~ heads defining an extruder outlet, said extruder unit generating a mesh-type tubular structure,

a cooling unit mounted at said extruder unit for rapidly cooling said granulate material, and

a measuring and cutting device for measuring and cutting elements having a predetermined length within a specific interval,

the method including at least the steps of:

supplying said granulate material to said heating and pressurising unit from said reservoir via said second inlet,

conveying said granulate material along said path of travel,

heating said granulate material to an elevated temperature and pressurising said granulate material to an elevated pressure while conveying said granulate material along said path in said heating and pressurising unit, said heating and pressurising performed according to a specific heating and pressurising profile,

transferring said heated and pressurised granulate material to said extruder unit,

heating said granulate material within said extruder heating unit to a temperature above said first melting point and/or at or above said second melting point,

extruding said mesh-type tubular structure from said granulate material, said heating of said granulate material causing an expansion of said foaming additive causing said mesh-type tubular structure to obtain ~~an~~ porous structure,

cooling said extruded mesh-type tubular structure by said cooling unit according to a specific cooling profile thereby stopping or halting expansion of said granulate material and/or said foaming additive and locking or fix~~at~~ing said porous structure of said mesh-type tubular structure, and

cutting said mesh-type tubular structure into discrete tubular elements using said measuring and cutting unit.

2. The method according to claim 1, wherein the weight of said foaming additive constitutes 3-10% of the weight of the granulate material.

3. A contact filter block for the construction of filters for biological treatment of waste water including:

a plurality of individual tubular elements which are joined together each having an mesh-type outside surface, the individual tubular elements being produced using the method according to claim 1 or claim 2, said individual tubular elements having a porous structure.

4. The contact filter block according to claim 3, said porous structure having a surface of no less than 25-800 m^2/m^3.

5. An apparatus for producing tubular elements of a contact filter block, said apparatus including:

a reservoir for storing granulate material having a first melting point, said reservoir having a first inlet and a ~~second inlet~~first outlet, said granulate material including a foaming additive having a second melting point,

a heating and pressurising unit including a chamber having a second inlet and a second outlet, said second inlet in communication with said first outlet, a path of travel defined from said second inlet to said second outlet, said heating

unit comprising heating and pressurising elements distributed along said path of travel,

an extruder unit mounted downstream relative to said heating and pressurising unit at said second outlet, said extruder unit further including an extruder heating unit, said extruder unit including two oppositely rotating extruder heads defining an extruder outlet, said extruder unit generating a mesh-type tubular structure,

a cooling unit mounted at said extruder unit for rapidly cooling said mesh-type tubular structure, and a measuring and cutting device for measuring and cutting tubular elements having a predetermined length from said tubular structure.

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A CONTACT FILTER BLOCK, A METHOD OF PRODUCING STRUCTURAL ELEMENTS OF A CONTACT FILTER BLOCK AND AN APPARATUS FOR PRODUCING STRUCTURAL ELEMENTS OF A CONTACT FILTER BLOCK

The present invention relates to a method of producing structural elements of a contact filter block, a contact filter block obtained by the method and an apparatus for producing structural elements of a contact filter block using the method.

Related techniques have been described in publications such as US 2004/0022973, US 3,758,359, US 4,089,667, US 5,015,123, US 5,772,870, US 5,882,510, US 6,217,800, US 6,333,088, US 6,342,158, US 6,551 ,818, EP 1 142 837 A and KR 9611746. Reference is made to the above mentioned patent publications and the above US patents are hereby incorporated in the present specification by reference in their entirety for all purposes.

A first aspect of the present invention relates to a method of producing tubular elements of a contact filter block using an apparatus including:

a reservoir for storing granulate material having a first melting point, said reservoir having a first inlet and a first outlet, said granulate material including a foaming additive having a second melting point,

a heating and pressurising unit including a chamber having a second inlet and a second outlet, said second inlet in communication with said first outlet, a path of travel defined from said second inlet to said second outlet, said heating unit including heating and pressurising elements distributed along said path of travel,

an extruder unit mounted downstream relative to said heating and pressurising unit at said second outlet, said extruder unit further including an extruder heating unit, said extruder unit including two oppositely rotating extruder heads defining an extruder outlet, said extruder unit generating a mesh-type tubular structure,

a cooling unit mounted at said extruder unit for rapidly cooling said granulate material, and

a measuring and cutting device for measuring and cutting elements having a predetermined length within a specific interval,

the method including at least the steps of:

supplying said granulate material to said heating and pressurising unit from said reservoir via said second inlet,

conveying said granulate material along said path of travel,

heating said granulate material to an elevated temperature and pressurising said granulate material to an elevated pressure while conveying said granulate material along said path in said heating and pressurising unit, said heating and pressurising performed according to a specific heating and pressurising profile,

transferring said heated and pressurised granulate material to said extruder unit,

heating said granulate material within said extruder heating unit to a temperature above said first melting point and/or at or above said second melting point,

extruding said mesh-type tubular structure from said granulate material, said heating of said granulate material causing an expansion of said foaming additive causing said mesh-type tubular structure to obtain a porous structure,

cooling said extruded mesh-type tubular structure by said cooling unit according to a specific cooling profile thereby stopping or halting expansion of said granulate material and/or said foaming additive and locking or fixating said porous structure of said mesh-type tubular structure, and

cutting said mesh-type tubular structure into discrete tubular elements using said measuring and cutting unit.

The basic idea according to the present invention is to provide improvements relating to contact filter blocks, in particular to the tubular elements of the contact filter blocks for improving the properties of the contact filter blocks.

According to a first embodiment of the method according to the first aspect of the present invention, the cutting of the mesh-type tubular structure involves cutting the mesh-type tubular structure into individual or discrete tubular elements which are in a further step joined together side by side for producing a contact filter block. The individual or discrete tubular elements may be joined or sealed together by means of an adhesive or by the application of heat. The step of joining or assembling the individual and discrete tubular elements together may

provide a contact filter block of the conventional cubic configuration or a substantially box-like configuration or may alternatively provide a contact filter block having a base surface from which the individual or discrete tubular elements extend, preferably perpendicularly from the base surface. The base surface may have any relevant geometrical configuration such as a square, a rectangle, a circle, a triangle, a polygonal or a rhombic configuration.

According to an alternative or second embodiment of the method according to the first aspect of the present invention, the cutting of the mesh-type tubular structure involves transforming the mesh-type tubular structure into a plane structure by cutting lengthwise the mesh-type tubular structure and forming the plane web produced from the mesh-type tubular structure into a corrugated structure and further cutting transversally the corrugated structure into individual corrugated plate elements. In the process of producing the corrugated plate elements from the mesh-type tubular structure, the cutting lengthwise and the cutting transversally may be performed in one action before the individual corrugated plate elements be deformed into the corrugated configuration by the application of heat and/or pressure to the element. Alternatively, the mesh-type tubular structure may be cut lengthwise in a separate step, whereupon for providing a web which is forced through a deforming dye by the application of heat and/or pressure to the web for producing a corrugated web, which web is then cut into individual corrugated plate elements.

By the provision of corrugated structural plate elements, a further advantage in relation to the volume or space used for transportation is reduced as the individual corrugated plate elements may be positioned on top of one another occupying a fairly small space as no or substantially no space is left between the corrugated plate elements. At the site of the application, the corrugated plate elements are joined together back to back as the corrugations of the one corrugated plate element are joined to the corrugations of the adjacent corrugated plate elements, thereby providing in the inter space between the individual adjacent corrugations through-going apertures similar to the apertures produced by the tubular elements produced in accordance with the embodiment of the method according to the first aspect of the present invention.

In the present context, the term 'a foaming additive' is to be construed as a generic term including any material present in solid, liquid or gaseous phase which allows the granulate material to be expanded for providing the porous structure of the mesh-type tubular structure produced in accordance with the method according to the first aspect of the present invention. Furthermore, granulate material is also to be construed including any material conventionally used in the polymer or plastics industry in the extrusion technical field and may include solid granulate material or polymer material included in a semi-pasteous or liquid state dependent on the actual melting point of the polymer composition.

It is further construed that any two-component polymer system, the one component constituting a component similar to the granulate material and the second component constituting a component similar to the foaming additive, which system provides that the two components are brought together, a physical and chemical reaction similar to the reaction caused by the straightforward addition of the foaming additive to the granulate material within the heating and pressurising unit is also to be contemplated as part of the components used or usable in accordance with the teachings of the present invention.

The primary use of the structural elements produced according to the first aspect of the present invention is as elements in a filter block. The method is primarily directed towards the advantageous properties of the structural elements, namely the enlarged surface originating from the release of the foaming additive. The increase in surface area is contemplated to be 10-50%, 50% to 100% or even more compared to structural elements produced according to traditional production methods.

In the present specification, the term a tubular element is to be construed as a geometrical element having a generator such as a circle, an ellipse, a square, a triangle or a rectangle and being generated by moving the geometrical generator along a generator line.

Furthermore, in the present context, the terms heating and pressurising unit and extruder unit are defining two sections of an apparatus conventionally known as an extruder. In the present context, the above terms heating and pressurising unit and extruder units are used solely for the purpose of defining

specific properties and functions of the respective parts or sections of the extruder.

Furthermore, it is to be understood that the term extruder unit may be considered equivalent to or identical to the part of the conventional extruder commonly known as the dye head.

Additionally, the method is contemplated to reduce the amount of material used for producing the structural elements by 20% to 50%, or even more, as other production methods for producing elements having a large surface require larger amounts of material.

The large surface of the structural elements is contemplated to provide space for one, two or more colonies of bacteria, of aerobic and/or anaerobic types. The combination of aerobic and anaerobic bacteria is contemplated to ensure an advantageous rate of decomposition of waste or biological material in water. Also, the structural elements are contemplated to ensure that a large amount of bacteria will grow on the structural elements within a short period of time, such as within two weeks. It is contemplated that anaerobic bacteria will grow at, around or near the joints of the mesh-type structure and aerobic bacteria will grow at or on the parts between the joints.

Dependent on the heating of the granulate material and also dependent on the cooling of the extruded mesh-type tubular structure after extrusion the individual strands of the mesh-type structure may be pressed together provided the strands are allowed to flow prior to cooling or alternatively, the individual strands of the mesh-type structure may be positioned on top of one another providing a more irregularly configurate type structure improving or increasing the joints of the mesh- type structure as compared to a structure in which the individual strands of the mesh-type structure are joint or pressed together into a shallow structure. It is, furthermore, contemplated that the more irregularly configurated structure may preserve the bacteria from being killed if the contact filter block is exposed to toxic material, which is harmful or mortal to the bacteria.

The reservoir may be constituted by a simple funnel into which a granulate material is poured automatically, semi-automatically or manually. Alternatively, the reservoir may be a tank or the like, for continuously supplying granulate material to the apparatus. The reservoir may have at least two inlets and/or

outlets for refilling the reservoir and for delivering the granulate material to the apparatus.

The heating and pressurising unit receives the granulate material from the reservoir and heats and pressurises the granulate material. The granulate material is heated up to but preferably not beyond the melting point of the granulate material. In alternative embodiments, the granulate material may be heated above or beyond the melting point.

The pressure to which the granulate material is pressurised is preferably within the interval 5 to 5000 bar, such as 5 to 50 bar, such as 50 to 1000 bar, such as 60 to 900 bar, such as 65 to 850 bar, such as 75 to 750 bar, such as 100 to 650 bar, such as 150 to 600 bar, such as 200 to 500 bar, such as 275 to 450 bar, such as 300 to 400 bar, such as 325 to 375 bar, such as 5 to 25 bar, such as 25 to 45 bar, such as 45 to 75 bar, such as 75 to 150 bar, such as 150 to 200 bar, such as 200 to 275 bar, such as 275 to 340 bar, such as 340 to 375 bar, such as 375 to 425 bar, such as 425 to 500 bar, such as 500 to 550 bar, such as 550 to 625 bar, such as 625 to 700 bar, such as 700 to 775 bar, such as 775 to 850 bar, such as 850 to 1000 bar, preferably around 350 bar.

The extruder heating unit provides an additional heating of the material. When the extruder heating unit heats the material, the foaming additive is contemplated to reach its foaming state and cause an expansion or creation of bubbles in the material, thereby creating a porous structure in the material.

In alternative embodiments, the extruder heating unit may be omitted, and the heating and pressurising unit may provide the needed heat for the foaming additive to expand.

For ensuring that the porous structure in the material is fixed or not changed, a cooling unit is provided. The cooling unit cools the material after it exits the extruder unit which is contemplated to stop the expansion of the foaming additive. The cooling may be obtained by using water, air, any fluid or liquid.

The extruder unit extrudes the mesh-type tubular structure from the heated material. In the presently preferred embodiment of the present invention, the extruder unit includes two oppositely rotating extruder heads or two parallel moving extruder heads, and the extruder heads define the extruder outlet or dye head. The oppositely rotating extruder heads provide a relative motion between

the rotating extruder heads as the one head may be stationary or be moving at a lower speed in the one direction as compared to the other head, or alternatively, the other head may be stationary or rotating oppositely to the first head or at a lower speed as compared to the first head.

Furthermore, for providing specifically configurated mesh-type tubular structure, the rotation may be oscillating or have varying speeds of one or both of the rotating extruder heads for providing a specific configuration of the mesh-type structure of the mesh-type tubular structure. Further, the extruder unit may include a multitude of nozzles each defining a cross-section having a substantially square, round, semi-round, rectangular, oblong, triangular, semi-hyperbolic, trapeze, inverse trapeze shaped or any combinations thereof, preferably round. In the present context, the term nozzle is used for describing the outlets of the extruder.

The measuring and cutting device is used for measuring and cutting the mesh-type tubular structure into discrete elements having a predetermined length within a specific interval, i.e. the resulting discrete elements may have an overall dimension with a measurement uncertainty. The measurements may be performed by machine visual inspection, mechanical determination of the length of the elements or any other automatic or semi-automatic methods or techniques.

In performing the method according to the first aspect of the present invention, the granulate material is supplied from the reservoir into the heating and pressurising unit. The heating and pressurising unit has an inlet through which the granulate material is supplied. The inlet may be in fluid communication with the reservoir.

The granulate material is conveyed along the path of travel defined in the heating and pressurising unit while the heating unit heats the granulate material. The heating is performed according to a specific heating profile.

In a first instance the heating elements may emit the same amount of heat at all positions along the path of travel, i.e. the same number of watts is emitted from all elements. In a second instance the heating element or elements may emit an increasing or decreasing amount of heat along the path of travel to ensure that the temperature of the granulate material is near the melting point at the outlet of the heating and pressurising unit. In a third instance, the specific

heating profile may include one or more temperature peaks along the path of travel, such as short and/or longer bursts of heat emitted from the heating elements or element. The temperature peaks may be substantially equal or in the alternative different, both in terms of amount and width/duration, further alternatively, a combination of two or more substantially equal peaks and one or more peaks different from the two.

Further, the speed at which the granulate material is conveyed along the path of travel may be adapted to ensure that the temperature of the granulate material is near or at the melting point of the granulate material at the outlet of the heating and pressurising unit.

The heating and pressurising unit may also increase or decrease the pressure of the granulate material as it is conveyed from the inlet to the outlet of the heating and pressurising unit. The change in pressure may be performed according to a specific pressurising profile.

After the material has been extruded, the extruder heating unit may provide extra heat for heating and thereby causing the foaming additive to expand and thereby create a porous structure in the material. The cooling unit cools the material to a temperature below the temperature at which the foaming additive expands.

The granulate material used in the method according to the first aspect of the present invention is preferably HDPE. Further, the granulate material may further include an amount of PP or LDPE or a combination thereof, and/or may include PVS, NYLON, ABS or any other polymer materials.

According to the teachings of the present invention, the weight of the foaming additive may constitute 0,1% to 50%, such as 1 % to 40%, such as 5% to 35%, such as 8% to 20%, such as 9% to 12%, such as 0,1 % to 5%, such as 5% to 15%, such as 15% to 25%, such as 25% to 35%, such as 35% to 45%, such as 45% to 50%, preferably 3-5% or 5-10% of the weight of the granulate material.

According to the basic realisation of the method according to the present invention, the granulate material may be heated to 140 to 300 degrees centigrade, dependent on the polymer material or materials in question.

Additionally, the granulate material may further include a colouring additive, such as green, black or any other colour.

Particularly, the method according to the first aspect of the present invention may further comprise providing a feed screw in the path of travel, the feed screw defining a cylindrical or conical geometry. The feed screw may then constitute a conveyor for conveying the material from the inlet of the heating and pressurising unit to the outlet thereof. The geometrical structure of the feed screw may perform the pressurising of the material as it is conveyed along the path of travel.

A second aspect of the present invention relates to a contact filter block for the construction of filters for biological treatment of waste water comprising:

a plurality of individual tubular elements which are joined together each having an mesh-type outside surface, the individual tubular elements being produced using the method according to the first aspect of the invention, said individual tubular elements having a porous structure.

Said plurality may comprise e.g. 4, 6, 8, 10, 12, 16 or even more individual tubular elements, such as e.g. 25, 36, 64 or 100.

The porous structure of the contact filter block is contemplated to provide a large surface on which a multitude of bacteria may grow. The bacteria are then contemplated to break-down or decompose waste in water flowing through the contact filter block. The contact filter block may be positioned in the ground or in a waste water treatment facility.

In a basic realisation of the contact filter block according to the second aspect of the present invention, it is contemplated that the porous structure may have a surface of no less than 25-800 m^2/m^3, such as 90-100 m^2/m^3, 100-150 m^2/m^3, 150-200 m^2/m^3, or 200-300 m^2/m^3.

As discussed earlier, the large surface area is contemplated to provide space for large amounts of bacteria for decomposing waste and/or biological material in water.

The surface roughness may be further described by the parameters Ra, Rz and Rmax. The surface roughness is measured in µm.

In embodiments of the present invention, the parameter Ra has a value in the interval 5 to 1000, such as 7 to 700, such as 10 to 600, such as 25 to 500, such as 50 to 450, such as 75 to 350, such as 100 to 300, such as 150 to 250, such as 7 to 15, such as 15 to 30, such as 30 to 50, such as 50 to 75, such as 75

to 150, such as 150 to 225, such as 225 to 300, such as 300 to 350, such as 350 to 400, such as 400 to 500, all measures being Ra, Rz and Rmax.

In embodiments of the present invention, the parameter Rz has a value in the interval 5 to 4000, such as 20 to 2000, such as 25 to 1800, such as 40 to 1500, such as 75 to 1300, such as 125 to 1200, such as 200 to 1100, such as 275 to 1000, such as 350 to 850, such as 400 to 700, such as 450 to 600, such as 500 to 550, such as 20 to 50, such as 50 to 100, such as 100 to 150, such as 150 to 225, such as 225 to 300, such as 300 to 375, such as 375 to 450, such as 450 to 550, such as 550 to 675, such as 675 to 775, such as 775 to 850, such as 850 to 950, such as 950 to 1100, such as 1100 to 1250, such as 1250 to 1400, such as 1400 to 1600, such as 1600 to 1800, such as 1800 to 2000, all measures being Ra, Rz and Rmax.

In embodiments of the present invention, the parameter Rmax has a value in the interval 5 to 5000, such as 30 to 3000, such as 40 to 2800, such as 50 to 2600, such as 75 to 2400, such as 150 to 2200, such as 200 to 2000, such as 275 to 1800, such as 375 to 1700, such as 450 to 1550, such as 550 to 1400, such as 650 to 1200, such as 775 to 1000, such as 850 to 950, such as 30 to 40, such as 40 to 50, such as 50 to 75, such as 75 to 100, such as 100 to 175, such as 175 to 275, such as 275 to 350, such as 350 to 475, such as 475 to 575, such as 575 to 700, such as 700 to 900, such as 900 to 1200, such as 1200 to 1500, such as 1500 to 1800, such as 1800 to 2000, such as 2000 to 2300, such as 2300 to 2600, such as 2600 to 2800, such as 2800 to 3000, all measures being Ra, Rz and Rmax.

A third aspect of the present invention relates to an apparatus for producing tubular elements of a contact filter block, the apparatus including:

a reservoir for storing granulate material having a first melting point, said reservoir having a first inlet and a first outlet, said granulate material including a foaming additive having a second melting point,

a heating and pressurising unit including a chamber having a second inlet and a second outlet, said second inlet in communication with said first outlet, a path of travel defined from said second inlet to said second outlet, said heating unit comprising heating and pressurising elements distributed along said path of travel,

an extruder unit mounted downstream relative to said heating and pressurising unit at said second outlet, said extruder unit further including an extruder heating unit, said extruder unit including two oppositely rotating extruder heads defining an extruder outlet, said extruder unit generating a mesh-type tubular structure,

a cooling unit mounted at said extruder unit for rapidly cooling said mesh-type tubular structure, and a measuring and cutting device for measuring and cutting tubular elements having a predetermined length from said tubular structure.

The present invention will be further described with reference to the attached drawings in which:

Fig. 1a is a schematic illustration of an apparatus for producing a mesh-type tubular structure,

Fig. 1b is a schematic illustration of a first embodiment of an apparatus for processing the mesh-type tubular structure into tubular elements,

Fig. 1c is a schematic illustration of a second embodiment of processing the mesh- type tubular structure into corrugated plate elements,

Fig. 2 is a schematic illustration of a part of an extruder unit,

Fig. 3 is a schematic illustration of the extruder unit of fig. 2,

Fig. 4 is schematic illustrations of alternative embodiments of extruder unit outlets,

Fig. 5 is a schematic illustration of a plurality of tubular elements connected in a filter block,

Fig. 6 is a zoomed schematic illustration of a part of a tubular element,

Fig. 7a is a schematic illustration of a pile of corrugated plate elements, and

Fig. 7b is a schematic illustration of a plurality of corrugated plate elements connected in a filter block.

Fig. 1a is a schematic illustration of an apparatus 10 for producing a mesh-type tubular structure. The apparatus 10 comprises a first section 12 and a second section 14. The first section 12 receives granulate material 16 via an inlet 18 constituted by a funnel. Alternatively, the inlet 18 may be in contact with a larger reservoir for continuously supplying granulate material 16 to the apparatus

10. The granulate material comprises a foaming additive that, when heated above a certain temperature, expands and thereby creates bobbles in the melted or soft granulate material. When the foaming additive expands the granulate material is probably not granulate any more, but a soft mass.

The first section 12 receives the granulate material which is then fed to a screw conveyor 20 defining an axis or path of travel along which the granulate material is transported. The screw conveyor 20 is positioned in the first section 12.

Along the path of travel defined by the screw conveyor 20, a number of heating elements, alternatively a single heating element, is distributed. The heating element or elements, not illustrated in Fig. 1a, heat the granulate material 16 while it is conveyed by the screw conveyor from the inlet of the first section 12 to an outlet 22 of the first section.

The granulate material 16 is heated to a temperature just below the melting point of the granulate material 16. In the presently preferred embodiment of the present invention, the screw conveyor 20 compresses the granulate material as it is conveyed along the path of travel.

The heating of the granulate material 16 is performed according to a specific heating profile. In one instance the heating elements may emit the same amount of heat at all positions along the path of travel and the speed of which the screw conveyor 20 conveys the granulate material 16 may be adapted to ensure that the temperature of the granulate material is above the melting point of the granulate material at the outlet 22.

In a second instance the heating element or elements may emit an increasing or decreasing amount of heat along the path of travel to ensure that the temperature of the granulate material 16 is near the melting point of the granulate material at the outlet 22.

Thirdly, the specific heating profile may include one or more temperature peaks along the path of travel, such as short or long bursts of heat emitted from the heating elements or element. The temperature peaks may be substantially equal, both in terms of amount and width/duration.

The screw conveyor 20 may be formed as a simple screw having a substantially constant diameter or height. In the alternative the screw conveyor 20

may be formed as a screw conveyor with gradually increasing or decreasing height so that the granulate material 16 is further compressed due to the gradually reduced size or space. In the embodiment where the screw conveyor 20 has a substantially constant height along the path of travel, the granulate material 16 may still be compressed, e.g. by the "new" or cold granulate material pushing the "old" or hot granulate material 16 located nearer the outlet 22 of the first section.

The operation of the heating elements and/or the screw conveyor is controlled by an external unit 24, e.g. a computer or specialised hardware and/or software monitoring the operation of the screw conveyor and/or the heating elements by receiving information regarding the number of revolutions per second of the screw conveyor and pressure and/or temperature information e.g. via sensors located inside the first section 12. The unit 24 may ensure that the temperature of the heating elements and/or the material is within predetermined ranges.

In Fig. 1a, the unit 24 is connected to the first section 12 via a cable 26 for transferring information and control signals back and forth between the unit 24 and the first section 12. Alternatively, the cable or wire 26 may be constituted by other links such as RF, IR, HF or other wireless transfer techniques.

From the outlet 22 of the first section 12, the heated and near-melted granulate material is transferred into the second section via an inlet 28. The material is fed to an extruder unit 30 including an additional heater unit, not illustrated, for heating the material above its melting point. As the material includes a foaming additive that is released above a certain temperature, the foaming material will enter a gaseous state thereby creating a porous structure in the material. The expansion or transfer of the foaming additive into gas is preferably done after the material has passed though the extruder unit 30.

To ensure that the porous structure is fixed, a cooling unit cools the material shortly after the porous structure has been established.

In Fig. 1a, the mesh-type tubular structure 34 exits the second section 14 via the outlet 36. The tubular mesh-structure 34 will be further processed as illustrated in Fig. 1b, or alternatively as illustrated in Fig. 1c.

In Fig. 1b, the structure 34 is cut into individual tubular elements using a cutting saw 38 located in a tower 40, the cutting wheel being mounted on a reciprocating arm moving in the direction of the arrow 42. The structure 34 is cut into smaller pieces that may be assembled in larger structures such as 44 which is a structure comprising 25 short pieces of the tubular mesh-structure 34. The 25 individual pieces of the tubular mesh-structure are then transferred into a heater unit 46 melting the ends of the pieces of the tubular mesh-structure so that the individual pieces are assembled and/or locked in a fixed structure which may then be used for purposes such as cleaning water, such as waste water.

In Fig. 1c, the mesh-type tubular structure 34 is cut lengthwise by means of a cutting knife 43 causing the mesh-type tubular structure to be converted into a substantially planar structure as is illustrated by 35. The substantially planar structure is introduced into a heating and pressing dye 47, in which the substantially planar structure 35 is converted into a corrugated structure, as is indicated by the reference numeral 37, whereupon the corrugated structure is introduced into a cutting station, in which the cutting saw 38 cuts the corrugated structure into individual corrugated plate elements, one of which is designated the reference numeral 45. The corrugated plate elements are to be described in greater details below with reference to Figs. 7a and 7b. In an alternative method of providing the corrugated plate element 45, the planar structure shown in Fig. 1c is cut into individual rectangular plane elements, which are then introduced into a set of forming and pressing tools providing the corrugated configuration.

In the presently preferred embodiment of the present invention, the extruder unit 30 is constituted by two oppositely rotating parts illustrated in greater details in Figs. 2, 3 and 4.

As seen from Fig. 2, the extruded material exits the extruder unit at extruder outlets 32 distributed in a circle. The distribution of the extruder outlets 32 ensures along with the rotation of the extruder heads 52 and 54 that the resulting structure is a tubular mesh-type structure.

Fig. 3 schematically illustrates an extruder comprising two extruder heads 52 and 54. The extruder heads 52 and 54 are two oppositely rotating circular heads. In other embodiments, the extruder unit may comprise two or more

parallel moving parts, two parts moving or rotating in the same direction, or parts not moving or rotating themselves.

In Fig. 4, three alternative geometrical configurations of the extruder outlets are illustrated, referenced 32', 32", 32"', respectively. In the presently preferred embodiment of the present invention, the extruder outlets 32 define a substantially circular geometrical cross section, however, as illustrated in Fig. 4, the extruder outlets may define a substantially square 32', star-shaped 32", triangular 32"' or any polygon configurations such as elliptical, rectangular, truncated pyramidal, inverse truncated pyramidal, hexagonal, pentagonal or any combinations thereof.

Fig. 5 is a schematic illustration of an assembly of pieces of the tubular mesh-type structure 34, assembled into a simple structure 44. The individual mesh-type tubular structure elements are joined together at the ends of the structures, however embodiments wherein the elements are joined together at other locations along the longitudinal axis of the elements may be envisioned as well as embodiments where the elements are joined along the entire lengths of the elements.

Fig. 6 is a schematic closer view of an element 48 illustrating the expanded surface of the threads 50 constituting the mesh-structure of the tubular element 48. The threads 50 have an expanded surface due to the manufacturing process as described in relation to Fig. 1 wherein the foaming additives release a gas creating bubbles in the material. The enlarged surface is contemplated to allow a great or large amount of bacteria to grow on the structure or thread, e.g. the bacteria located nearest the thread 50 will be covered by other bacteria thereby allowing substantially only anaerobic bacteria to grow on the thread 50 itself.

In Fig. 7a, a pile of individual corrugated plate elements 45 is shown, which pile constitutes a highly compact structure as compared to the structure 44, i.e. the contact filter block 44 shown in Fig. 5. The saving of space by the provision of the corrugated plate element 45 is contemplated to provide a further advantage of the contact filter block as compared to the conventional contact filter blocks known in the art. In Fig. 7b, a contact filter block 44' is shown, which contact filter block is assembled from the corrugated plate elements 45, also shown in Fig. 7a. The corrugated plate elements 45 are joined together in Fig. 7b in a structure

"back-to-back", as the corrugations of the one plate are joined to the opposite corrugations of the adjacent plate which has been turned upside down as compared to the pile shown in Fig. 7a. The structures 44' shown in Fig. 5 may be fixed by means of an adhesive or alternatively by the application of heat to the joined corrugations or at the end parts of the structure.

The combination of anaerobic and aerobic bacteria is contemplated to provide an improved cleaning effect on wastewater, as they each digest or decompose different types of waste.

THE CLAIMS DEFINING THE INVENTION ARE AS FOLLOWS:

1. A method of producing tubular elements of a contact filter block using an apparatus including:

a reservoir for storing granulate material having a first melting point, said reservoir having a first inlet and a first outlet, said granulate material including a foaming additive having a second melting point,

a heating and pressurising unit including a chamber having a second inlet and a second outlet, said second inlet in communication with said first outlet, a path of travel defined from said second inlet to said second outlet, said heating unit including heating and pressurising elements distributed along said path of travel,

an extruder unit mounted downstream relative to said heating and pressurising unit at said second outlet, said extruder unit further including an extruder heating unit, said extruder unit including two oppositely rotating extruder heads defining an extruder outlet, said extruder unit generating a mesh-type tubular structure,

a cooling unit mounted at said extruder unit for rapidly cooling said granulate material, and

a measuring and cutting device for measuring and cutting elements having a predetermined length within a specific interval,

the method including at least the steps of:

supplying said granulate material to said heating and pressurising unit from said reservoir via said second inlet,

conveying said granulate material along said path of travel,

heating said granulate material to an elevated temperature and pressurising said granulate material to an elevated pressure while conveying said granulate material along said path in said heating and pressurising unit, said heating and pressurising performed according to a specific heating and pressurising profile,

transferring said heated and pressurised granulate material to said extruder unit,

heating said granulate material within said extruder heating unit to a temperature above said first melting point and/or at or above said second melting point,

extruding said mesh-type tubular structure from said granulate material, said heating of said granulate material causing an expansion of said foaming additive causing said mesh-type tubular structure to obtain a porous structure,

cooling said extruded mesh-type tubular structure by said cooling unit according to a specific cooling profile thereby stopping or halting expansion of said granulate material and/or said foaming additive and locking or fixing said porous structure of said mesh-type tubular structure, and

cutting said mesh-type tubular structure into discrete tubular elements using said measuring and cutting unit.

2. The method according to claim 1, wherein the weight of said foaming additive constitutes 3-10% of the weight of the granulate material.

3. A contact filter block for the construction of filters for biological treatment of waste water including:

a plurality of individual tubular elements which are joined together each having an mesh-type outside surface, the individual tubular elements being produced using the method according to claim 1 or claim 2, said individual tubular elements having a porous structure.

4. The contact filter block according to claim 3, said porous structure having a surface of no less than 25-800 m^2/m^3.

5. An apparatus for producing tubular elements of a contact filter block, said apparatus including:

a reservoir for storing granulate material having a first melting point, said reservoir having a first inlet and a first outlet, said granulate material including a foaming additive having a second melting point,

a heating and pressurising unit including a chamber having a second inlet and a second outlet, said second inlet in communication with said first outlet, a path of travel defined from said second inlet to said second outlet, said heating

unit comprising heating and pressurising elements distributed along said path of travel,

an extruder unit mounted downstream relative to said heating and pressurising unit at said second outlet, said extruder unit further including an extruder heating unit, said extruder unit including two oppositely rotating extruder heads defining an extruder outlet, said extruder unit generating a mesh-type tubular structure,

a cooling unit mounted at said extruder unit for rapidly cooling said mesh-type tubular structure, and a measuring and cutting device for measuring and cutting tubular elements having a predetermined length from said tubular structure.

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