



DIRECCIÓN DE NUEVAS CREACIONES  
MODIFICACIONES Y/O CORRECCIONES

P2006/000215

1. Identificación del Trámite

☐ Error material

☒ Modificación a una Solicitud en trámite

☒ Patente de Invención

☐ Patente de Modelo de Utilidad

☐ Registro de Diseño Industrial

☐ Esquema de Trazado de Circuitos Integrados

2. Datos del solicitante

Persona Natural ☐

Persona Jurídica ☒

ZOETIS P LLC.

Nombre o denominación / Nombre o razón social completa

CARLOS REYNALDO OLARTE.

Nombre representante legal

Tipo de empresa Micro ☐ Pequeña ☐ Mediana ☐ Otra ☒

Documento de identificación: ☒ C.C. ☐ C.E. ☐ NIT ☐ Otro Número 79.782.747

| Nacionalidad/País de constitución | Dirección y domicilio del titular                | Ciudad            |
|-----------------------------------|--------------------------------------------------|-------------------|
| Estados Unidos de América         | 100 Campus Drive, Florham Park, New Jersey 07932 | New Jersey        |
| Dirección electrónica             | No. Fax                                          | Número telefónico |
| office@olartemoure.com            | 601-7799                                         | 601-7700          |

☒ Autorizo expresamente a la Superintendencia de Industria y Comercio para que todas las comunicaciones sean enviadas a través de la dirección de correo electrónico

3. Datos del apoderado:

OLARTE GARCIA CARLOS R.

79.782.747 de Btá

74.295

Apellidos y Nombre

Documento de identificación

Tarjeta profesional

|                                                                    |          |                   |
|--------------------------------------------------------------------|----------|-------------------|
| Dirección y domicilio                                              |          | Ciudad            |
| Cra 5 No. 34-03                                                    |          | BOGOTA            |
| Dirección electrónica                                              | No. Fax  | Número telefónico |
| <a href="mailto:office@olartemoure.com">office@olartemoure.com</a> | 601-7799 | 601-7700          |

En caso de haber presentado poder general para asuntos que se adelanten ante la Delegatura de Propiedad Industrial, sírvase indicar el número de su radicación o protocolo de poder general

4. Datos del trámite

Corrección:

Expediente No 06-100.763

Aparece \_\_\_\_\_

Debe ser \_\_\_\_\_

Modificación:

☐ Modificación al capítulo reivindicatorio.

\_\_\_\_\_  
\_\_\_\_\_

☐ Modificación al capítulo descriptivo.

\_\_\_\_\_  
\_\_\_\_\_

☐ Modificación al resumen.

\_\_\_\_\_  
\_\_\_\_\_

☐ Modificación a los dibujos.

\_\_\_\_\_  
\_\_\_\_\_

☒ Modificación al solicitante.

CAMBIO DE NOMBRE DE PFIZER PRODUCTS INC. A ZOETIS P LLC

\_\_\_\_\_  
\_\_\_\_\_

5. Anexos

☒ Comprobante de pago de la tasa para la presentación de la corrección y/o modificación

☒ Poder, si fuere el caso. (Poder únicamente para este trámite).

☒ Documento que contiene las modificaciones o correcciones.

☐ Copia de la solicitud y sus anexos en formato magnético.

6. Firma

Nombre y apellidos  
CARLOS R. OLARTE

C.C. 79.782.747 de Bogotá

Firma

Terjeta Profesional 74.295

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO  
NIT : 800.176.089-2  
- / -



|                                                     |                       |                                         |
|-----------------------------------------------------|-----------------------|-----------------------------------------|
| <br><b>Industria y Comercio</b><br>SUPERINTENDENCIA | <b>RECIBO DE CAJA</b> | <b>No. 13 - 0052380</b>                 |
|                                                     |                       | Bogotá D.C., Mayo 30 de 2013 - 09:58:20 |

|                                        |           |        |            |            |                |
|----------------------------------------|-----------|--------|------------|------------|----------------|
| RECIBIDO DE : OLARTE MOURE & ASOCIADOS |           |        |            |            | NI 830.122.870 |
| *** Soporte del Pago ***               |           |        |            |            |                |
| TIPO PAGO                              | BANCO     | CUENTA | No. PAGO   | FECHA PAGO | VR. PAGO       |
| RECIBO DE CA                           | 999999999 | 36746  | 18/04/2013 |            | 505.000.00     |
| RECIBO DE CA                           | 999999999 | 43350  | 08/05/2013 |            | 505.000.00     |
| RECIBO DE CA                           | 999999999 | 43351  | 08/05/2013 |            | 505.000.00     |

|                                                    |                                       |              |             |
|----------------------------------------------------|---------------------------------------|--------------|-------------|
| *** Conceptos Pagados ***                          |                                       |              |             |
| CANT. RENTISTICO                                   | CONCEPTO                              | Vr.UNDITARIO | Vr.CONCEPTO |
| 1 50005-01-03 CAMBIO DE MODALIDAD Y MODIFICACIONES | SOLICITUD MODIFICACIONES CORRECCIONES | 50.000.00    | 50.000.00   |
|                                                    | SOLICITUDES EN TR                     |              | \$50.000.00 |
|                                                    |                                       | =====        |             |

SON: \*\*CINCUENTA MIL PESOS MONEDA CORRIENTE\*\*

Responsable: \_\_\_\_\_  
\*\*\*\*\*  
Recibo de Caja Aplicado al Expediente No. \_\_\_\_\_

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO

No. 06-100763- -00013-0000

Fecha: 2013-05-31 16:46:33 Dep. 2020 DIR.NUEVASCR  
Tra. 11 PATENTEIYII Eve: 379 FASENACIONALI  
Act. 329 CTOINFORMACION Folios: 49

# OLARTEMOURE

OLARTE MOURE & ASOCIADOS LTDA.

## General Power

The undersigned,

El suscrito,  
ZOETIS P LLC

domiciled in

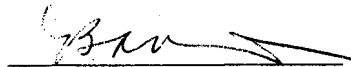
100 Campus Drive, Florham Park, New Jersey 07932, United States of America

hereby appoint to **Carlos R. Olarte and/or Juan Guillermo Moure** legal representatives with faculties to receive notifications and to appoint judicial or extrajudicial agents in Patents for Inventions, Utility Models, Layout-Designs (topographies) of Integrated Circuits, Industrial Designs, Trademarks, Advertising Slogans, Trade Names, Commercial Emblems, Geographical Indications, Protection of Trade Secrets, Obtainer's Certificates, Copyrights, Registration of Domain Names, Health Registrations, or any other intellectual property right Republic of Colombia, the Republic of Bolivia, the Republic of Ecuador, the Republic of Peru, and the Bolivarian Republic of Venezuela, to initiate before said authorities all the necessary actions to accomplish said purposes and to intervene in all instances, grades and procedural levels; to file and prosecute applications, declarations, complaints, to claim, counterclaim, answer claims and counterclaims; to make amendments; oppositions and all types of objections and writings of any nature; cancellations and administrative injunction proceedings; to pay all installments and effect all other payments prescribed by law; to receive documents and monies; act as complainants as well as defendants, before the competent judges, with full powers to request preliminary injunctions of any nature, settle, make arrangements, to submit to arbitrators, to desist from claims or procedures, to accept claims, to collect, to ratify legal proceedings subscribed before the appointment and/or presentation of this Power, substitute or delegate the legal representation and other acts prescribed by law, in short, with all such further powers as may be required; to comply with all other requirements and, to take all those measures which they may deem fit for the protection of our interests.

## Poder General

nombramos por el presente a **Carlos R. Olarte y/o Juan Guillermo Moure** nuestros representantes legales con facultades para recibir notificaciones y nombrar apoderados judiciales o extrajudiciales en Patentes de Invención, Modelos de Utilidad, Esquemas de Trazados de Circuitos Integrados, Diseños Industriales, Marcas, Lemas Comerciales, Nombres Comerciales, Enseñas Comerciales, Denominaciones de Origen, Protección de Secretos Empresariales, Certificados de Obtentor, Derechos de Autor, Registro de Nombres de Dominio, Registros Sanitarios, o cualquier otro bien de propiedad intelectual en la República de Colombia, República de Bolivia, República de Ecuador, República de Perú y la República Bolivariana de Venezuela ya sean administrativas, judiciales o de policía, para iniciar ante dichas autoridades todas las acciones necesarias para cumplir con el objeto indicado e intervenir en todas las instancias, grados o etapas procesales; elevar y tramitar solicitudes, declaraciones y reclamos, para demandar, reconvenir, contestar demandas y reconveniones; formular enmiendas, oposiciones y todo tipo de impugnaciones y escritos de cualquier naturaleza; instaurar cancelaciones y amparos administrativos; abonar todos los impuestos y cuotas y efectuar cualquier otro pago determinado por la ley; recibir todos los documentos y valores; intervenir como demandantes o demandados ante los jueces que sean competentes, pudiendo solicitar medidas cautelares de cualquier naturaleza, conciliar, transar, someter a árbitros, desistirse de la pretensión y/o el procedimiento, allanarse a la pretensión, percibir, ratificar los actos jurídicos procesales suscritos con anterioridad al otorgamiento y/o presentación del presente poder, sustituir o delegar la representación procesal y los demás actos que exprese la ley, con todas las demás facultades que resulten necesarias; llenar cualesquiera otros requisitos y tomar, en fin, todas las medidas que creyeren conducentes al resguardo de nuestros intereses.

Signature/Firma:

  
Barbara L. Renda, Attorney-in-Fact Zoetis P LLC

Date/Fecha: 4 April 2013

City/Country/Ciudad,País: New Jersey, United States of America.

Carlos R. Olarte  
Juan G. Moure

Alexander Agudelo

Carlos A. Parra

Juan Felipe Acosta

Andrés Rincón

Mónica Guevara

Andrés Alvarado

Ella Ponce

Liliana Galindo

María Clara Calderón

Mauricio Ávila

Laura Escobar

José Jairo Dangond

Gina Cáceres

Isabella Herrera

Zaava Ravid

Medellín

María Clara Múnera

## DECLARACION JURAMENTADA

Yo, Gelsomina Hohmann, por la presente certifico que la copia adjunta ha sido comparado con la Cesión de patente original entre **Pfizer Products Inc.** (Cedente) a **PAH USA 15 LLC** (Cesionario), de fecha 1 de octubre del 2012, y que dicha copia es copia fiel del original.

Fecha el 1 de abril de 2013, en Madison, New Jersey Estados Unidos de América.

Firmado: Gelsomina Hohmann

## RECONOCIMIENTO

Estado de New Jersey

Condado de Morris

El 1 de abril de 2013, compareció personalmente Gelsomina Hohmann, conocido del suscrito, y conocido del suscrito como la persona descrita en el anterior instrumento y quien lo suscribió, la cual reconoció que suscribió el mismo por su propia voluntad y para los fines expuestos en el mismo.

(Firma ilegible)

MICHELLE L. MCGOWAN

Notario Público de New Jersey

I.D. No 2409814

Mi comisión vence el 22 de junio de 2016

## CESION DE PATENTE

Esta asignación de patente ("cesión") se hace efectiva a partir del 01 de octubre 2012 (la "fecha efectiva"), por y entre **Pfizer Products Inc.**, una sociedad constituida bajo las leyes de Connecticut, con oficina en Eastern Point Road, Groton, CT 06340-5146, Estados Unidos ("cedente") y **PAH USA 15 LLC**, un sociedad de responsabilidad limitada constituida bajo las leyes de Delaware, tiene una oficina en 235 East 42nd, Street, New York, NY 10017-5755, Estados Unidos, ("cesionario"). Cedente y el cesionario se refieren a veces en este documento de forma individual como una "Parte" y colectivamente como las "Partes". Los términos en mayúscula utilizados pero tampoco definen en este documento tendrán el significado atribuido a los términos del Acuerdo de Aportaciones (tal como se define en este documento).

### EXPONEN:

CONSIDERANDO, que el cedente es titular de las patentes y solicitudes de ellos, identificados en el Anexo A del presente (colectivamente, los "derechos de patente asignados"), y

CONSIDERANDO que, de conformidad con el acuerdo de activos contribución, de fecha de 1 de octubre de 2012 entre cedente y cesionario, (el "acuerdo de contribución") Cedente está asignando al cesionario todos del Cedente derechos, títulos e intereses, para y bajo la patente asignada los derechos;

AHORA, POR LO TANTO, para bien y oneroso Se acusó recibo de la cual y en consideración de los acuerdos de inversión, disposiciones y condiciones establecidas en esta asignación, las Partes, con la intención de obligarse legalmente, convienen en lo siguiente:

- 7
1. **Traspaso**: Cedente quedará vende, cede, la transferencia y la transmite al cesionario el derecho entero, títulos e intereses, con y bajo (a) los derechos de patentes asignadas a los Estados Unidos y de todos los países, incluyendo todos y cada uno (i) de la división, continuaciones y continuaciones en parte y que la prioridad pretensión de los derechos de patente, hasta el límite de las reclamaciones de los mismos son totalmente compatibles con dichos derechos asignados de patentes, (ii) reediciones, renovaciones, ampliaciones o adiciones de los derechos de patente asignados, (iii ) equivalentes en el extranjero de los derechos de patente asignados, y (iv) los derechos de solicitar, procesar y obtener patentes en relación con cualquiera de los inventos en la medida en el pleno apoyo de los derechos de patente asignados en cualquier país del mundo, incluido el derecho a reivindicar la prioridad de los derechos de patente asignados en virtud del Convenio de París para la Protección de la Propiedad Industrial, y en virtud de cualquier y todos los demás esos tratados y acuerdos a los que los Estados Unidos es una parte y que prevén privilegios prioridad alegando similares en todos los países de la mundo, y (b) el derecho de demandar y recuperar daños y otros recursos con respecto a cualquier infracción pasada, presente o futura, o cualquier otro uso no autorizado de los derechos asignados de patentes.
  2. **Expedición y registro**: Cedente autoriza y solicita al Comisionado de Patentes y Marcas Registradas de los Estados Unidos y cualquier funcionario de cualquier país extranjero cuyo deber es a conceder patentes sobre las aplicaciones descritas anteriormente, para emitir cualquier y todos los derechos asignados al cesionario de patentes, sus sucesores y cesionarios , de conformidad con los términos de esta asignación, Cedente solicito el Comisionado de Patentes y Marcas, y las entidades correspondientes o agencias en cualquier jurisdicción extranjera aplicable, grabar cesionario que el cesionario y el dueño de los derechos asignados de patentes. Cesionario tendrá derecho a registrar esta asignación con

todas las autoridades gubernamentales aplicables y registradores con el fin de perfeccionar la propiedad de los derechos asignados de patentes.

3. **Ninguna Modificación:** Nada de lo contenido en esta asignación se pretende o se considerará que modificar, alterar, modificar o cambiar cualquiera de los derechos u obligaciones del cesionario o cedente en el marco del Acuerdo de contribución o de cualquier otro acuerdo celebrado por las partes o cualquiera de sus filiales en relación con la GSA. Sin perjuicio de lo anterior, en el caso y en la medida que ha de haber un conflicto entre las disposiciones del presente Acuerdo y de las disposiciones del Acuerdo de Aportaciones, el Acuerdo de Contribución controlará.
4. **Sucesores y Cesionarios:** Esta asignación será vinculante y redundará en beneficio de las partes y sus respectivos sucesores y cesionarios.
5. **Contrapartes:** Esta asignación se podrá ejecutar en uno o más ejemplares, cada uno o que se consideren y original, y todos los cuales constituirán uno y el mismo acuerdo y se hará efectiva cuando una o varias contrapartes han sido firmados por cada una de las partes y entregado a la otra parte, en el entendimiento de que ambas partes no tienen que firmar la misma contraparte.
6. **Interpretación:** El artículo y la sección de encabezado contenida en esta asignación son el único fin de la referencia, no son parte del acuerdo de las partes y no podrá en ningún efecto manera el significado o interpretación de esta asignación.
7. **Más garantías:** Cedente y el cesionario presente convenio y de acuerdo, sin la necesidad de cualquier otra consideración, para ejecutar, reconocer y entregar cualquier y todos los demás documentos y tomar cualquier otra acción que pueda ser necesaria o apropiada para implementar esta tarea y llevar a cabo la intención y el propósito de esta actividad.
8. **Jurisdicción aplicable:** Esta asignación se regirá y se interpretará y se interpretará de acuerdo con las leyes o el estado o Nueva York.

- 
9. Jurisdicción: Cualquier procedimiento judicial interpuesto por cualquiera de las partes a continuación contra el otro con respecto a esta asignación puede ser llevado exclusivamente en los tribunales del Estado de Nueva York, y, en su ejecución y entrega de esta asignación, Cedente (a) acepta, en general y sin condiciones, a la jurisdicción de dichos tribunales e irrevocablemente acepta que quedará vinculado por toda sentencia con ello, y (b) renuncia irrevocablemente a cualquier objeción que pueda tener ahora o en el futuro en cuanto a la competencia de cualquier demanda, acción o procedimiento presentado en un tribunal o que dicho tribunal es un foro inconveniente. Consiente Cedente que el servicio del proceso en que se puede presentar por correo certificado con acuse de recibo, a la dirección especificada o determinada anteriormente y el servicio lo hizo, se considerará concluido cuando se reciben. Nada de lo aquí afectará el derecho de hacer las notificaciones de cualquier otra forma permitida por la ley o limitará el derecho del cesionario a interponer un recurso contra el cedente en los tribunales de cualquier otra jurisdicción.

EN FE LO CUAL, Cedente y Cesionario haber causado esta Cesión para ser ejecutado por sus representantes debidamente autorizados a partir de la fecha de vigencia.

CEDENTE  
PFIZER PRODUCTS INC  
(firma ilegible)  
RICHARD A FRIEDMAN  
Procuradora de Hecho

CESIONARIO  
PAH USA 15 LLC  
(firma ilegible)  
ANDREW MURATORE  
PRESIDENTE

TESTIGO EN CUANTO A POR:  
Firma ilegible  
Nombre: Alexis Ariel Ferra  
Nacionalidad: Americano  
Cargo: Asistente Administrativo  
Direccion Of: 235 E 42nd Street  
New York, NY 10017

TESTIGO EN CUANTO A POR:  
Firma ilegible  
Nombre: Gary Ross Genaru  
Nacionalidad:  
Cargo: Especialista Mayor  
Direccion Of: 235 E 42nd NYC  
100017

ESTADO DE NEW YORK )  
SS:  
CONDADO DE NEW YORK )

Este documento es ejecutado ante mi el 27 de Septiembre de 2012, Richard A. Friedman, el Abogado (titulo) por PFIZER PRODUCTS INC, una compañía organizada bajo las leyes de Delaware, en nombre de dicha compañía.

Notario publico  
VERONICA DICAMILLO  
Notario Publico del Estado de New York  
Calificado en Condado de New York  
No. 02DI2601545  
Mi comision vence el 2 de marzo de 2013

ESTADO DE NEW YORK )  
SS:  
CONDADO DE NEW YORK )

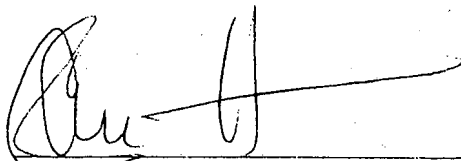
Este documento es ejecutado ante mi el 27 de Septiembre de 2012, Andrew Muratore, el Presidente (titulo) por PAH USA 15 LLC, una compañía organizada bajo las leyes de Delaware, en nombre de dicha compañía.

Notario publico  
VERONICA DICAMILLO  
Notario Publico del Estado de New York  
Calificado en Condado de New York  
No. 02DI2601545  
Mi comision vence el 2 de marzo de 2013

**AFFIDAVIT**

I, Gelsomina Hohmann, do hereby certify that the attached copy has been compared with the original Patent Assignment between Pfizer Products Inc. (Assignor) to PAH USA 15 LLC (Assignee), dated October 1, 2012, and that the said copy is a true copy of the original.

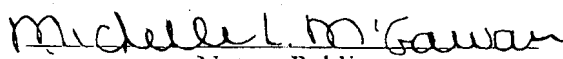
Dated this 1<sup>st</sup> day of April, 2013, at Madison, New Jersey, United States of America.

  
Gelsomina Hohmann

**ACKNOWLEDGMENT**

State of New Jersey   )  
                                  )  
County of Morris       )

On this 1<sup>st</sup> day of April, 2013, before me personally appeared Gelsomina Hohmann, to me known and known to me to be the individual described in and who executed the foregoing instrument, and she acknowledged to me that she executed the same.

  
Notary Public

**MICHELLE L. MCGOWAN**  
**NOTARY PUBLIC OF NEW JERSEY**  
**I.D. # 2409814**  
**My Commission Expires 6/22/2016**

## PATENT ASSIGNMENT

THIS PATENT ASSIGNMENT (the "Assignment") is made effective as of October 1, 2012 (the "Effective Date"), by and between Pfizer Products Inc., a corporation organized under the laws of Connecticut, having an office at Eastern Point Road, Groton, CT 06340-5146, United States ("Assignor") and PAH USA 15 LLC, a limited liability company organized under the laws of Delaware, having an office at 235 East 42<sup>nd</sup> Street, New York, NY 10017-5755, United States ("Assignee"). Assignor and Assignee are sometimes referred to herein individually as a "Party" and collectively as the "Parties." Capitalized terms used but not defined herein shall have the meaning ascribed to such terms in the Contribution Agreement (as defined herein).

### RECITALS:

WHEREAS, the Assignor is the owner of the patents and applications therefor identified on Schedule A hereto (collectively, the "Assigned Patent Rights"); and

WHEREAS, pursuant to the Asset Contribution Agreement, dated as of October 1, 2012 between Assignor and Assignee, (the "Contribution Agreement") Assignor is assigning to the Assignee all of Assignor's right, title and interest in, to and under the Assigned Patent Rights;

NOW, THEREFORE, for good and valuable consideration the receipt of which is hereby acknowledged and in consideration of the mutual agreements, provisions and covenants contained in this Assignment, the Parties, intending to be legally bound, hereby agree as follows:

1. **Conveyance**. Assignor hereby sells, assigns, transfers, and conveys to Assignee its entire right, title and interest in, to and under (a) the Assigned Patent Rights, for the United States and for all foreign countries, including any and all (i) divisionals, continuations, and continuations-in-part that claim priority to any Assigned Patent Rights to the extent the claims thereof are entirely supported by such Assigned Patent Rights, (ii) reissues, renewals, extensions, or additions of the Assigned Patent Rights, (iii) foreign equivalents of the Assigned Patent Rights, and (iv) rights to apply for, prosecute and obtain patents in respect of any of the inventions to the extent fully supported by the Assigned Patent Rights in any country of the world, including the right to claim priority from the Assigned Patent Rights under the Paris Convention for the Protection of Industrial Property, and under any and all other such treaties and agreements to which the United States is a party and which afford similar priority-claiming privileges, in all countries of the world, and (b) the right to sue for and to recover damages and other remedies in respect of any past, present or future infringement or other unauthorized use of the Assigned Patent Rights.
2. **Issuance and Recordation**. Assignor hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue any and all Assigned Patent Rights to Assignee, its successors and assigns, in accordance with the terms of this Assignment. Assignor hereby requests the Commissioner of Patents and Trademarks, and the corresponding entities or agencies in any applicable foreign jurisdiction, to record Assignee as the assignee and owner of the Assigned Patent Rights. Assignee shall have the right to record this Assignment with all applicable government authorities and registrars so as to

perfect its ownership of the Assigned Patent Rights.

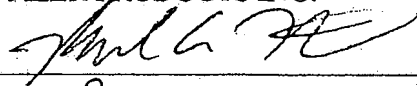
3. **No Modification.** Nothing contained in this Assignment is intended to or shall be deemed to modify, alter, amend or otherwise change any of the rights or obligations of Assignee or Assignor under the Contribution Agreement or any other agreement entered into by the Parties or any of their affiliates in connection with the GSA. Without limiting the foregoing, in the event and to the extent that there shall be a conflict between the provisions of this Agreement and the provisions of the Contribution Agreement, the Contribution Agreement shall control.
4. **Successors and Assigns.** This Assignment shall be binding upon and inure to the benefit of the Parties and their respective successors and assigns.
5. **Counterparts.** This Assignment may be executed in one or more counterparts, each of which shall be deemed an original, and all of which shall constitute one and the same agreement and shall become effective when one or more counterparts have been signed by each of the Parties and delivered to the other Party, it being understood that both Parties need not sign the same counterpart.
6. **Interpretation.** The Article and Section headings contained in this Assignment are solely for the purpose of reference, are not part of the agreement of the Parties and shall not in any way affect the meaning or interpretation of this Assignment.
7. **Further Assurances.** Assignor and Assignee hereby covenant and agree, without the necessity of any further consideration, to execute, acknowledge, and deliver any and all such other documents and take any such other action as may be reasonably necessary or appropriate to implement this Assignment and carry out the intent and purposes of this Assignment.
8. **Governing Law.** This Assignment shall be governed by and construed and interpreted in accordance with the laws of the State of New York.
9. **Jurisdiction.** Any judicial proceeding brought by either of the Parties hereunder against the other with respect to this Assignment may be exclusively brought in the courts of the State of New York, and, by its execution and delivery of this Assignment, Assignor (a) accepts, generally and unconditionally, the jurisdiction of such courts and irrevocably agrees to be bound by any judgment rendered thereby and (b) irrevocably waives any objection it may now or hereafter have as to the venue of any suit, action or proceeding brought in such a court or that such court is an inconvenient forum. Assignor consents that service of process upon it may be made by certified or registered mail, return receipt requested, at its address specified or determined above and service so made shall be deemed completed when received. Nothing herein shall affect the right to serve process in any other manner permitted by law or shall limit the right of Assignee to bring proceedings against Assignor in the courts of any other jurisdiction.

*[Signature page follows]*

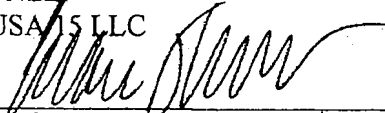
19

IN WITNESS WHEREOF, Assignor and Assignee have caused this Assignment to be executed by their duly authorized representatives as of the Effective Date.

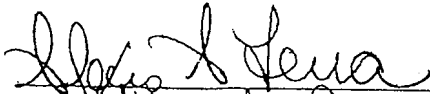
ASSIGNOR:  
PFIZER PRODUCTS INC.

  
Name: RICHARD A. FRIEDMAN  
Title: UP & Attorney-in-Fact

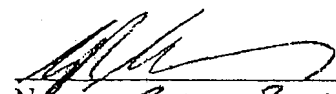
ASSIGNEE:  
PAH USA/15 LLC

  
Name: Andrew Muratore  
Title: President

WITNESSED AS TO BOTH:

  
Name: Alexis Ariel Ferro  
Nationality: American  
Title: Administrative Assistant  
Commercial address:  
235 E. 42nd Street  
New York, NY 10017

WITNESSED AS TO BOTH:

  
Name: Barry Ross Grenaschi  
Nationality: USA  
Title: SENIOR SPECIALIST  
Commercial address:  
235 E 42nd NYC 10017

STATE OF NEW YORK     )  
                                          )SS.  
COUNTY OF NEW YORK    )

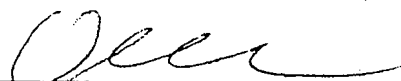
This instrument was executed before me on this 27 day of September, 2012 by Richard A. Friedman, the VP Attorney in fact (title) of Pfizer Products Inc., a corporation organized under the laws of Connecticut, on behalf of said corporation.

  
\_\_\_\_\_  
Notary Public

VERONICA DICAMILLO  
Notary Public of the State of New York  
Qualified in New York County  
No. 02DI6201545  
My Commission Expires Mar. 2, 2013

STATE OF NEW YORK     )  
                                          )SS.  
COUNTY OF NEW YORK    )

This instrument was executed before me on this 27 day of September, 2012 by Andrew Muratore the President (title) of PAH USA 15 LLC, a limited liability company organized under the laws of Delaware on behalf of said limited liability company.

  
\_\_\_\_\_  
Notary Public

VERONICA DICAMILLO  
Notary Public of the State of New York  
Qualified in New York County  
No. 02DI6201545  
My Commission Expires Mar. 2, 2013

**SCHEDULE A**  
**ASSIGNED PATENTS**

| Docket No. | Country   | App. No.      | App. Date  | Patent No. | Grant Date | Title                                                                                                 |
|------------|-----------|---------------|------------|------------|------------|-------------------------------------------------------------------------------------------------------|
| 009576A    | Albania   | AL/P/03/00855 | 5/29/1998  | 0988310    | 10/1/2003  | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                       |
| 010475A    | Albania   | AL/P/04/01043 | 11/9/1999  | 1131331    | 3/3/2004   | 13-membered Azalides And Their Use As Antibiotic Agents                                               |
| 009576A    | Algeria   | 980124        | 6/10/1998  | 02514      | 2/1/2003   | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                       |
| 009576A    | Argentina | P980102706    | 6/9/1998   | 013086B1   | 7/29/2005  | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                       |
| 010278A    | Argentina | P990106325    | 12/13/1999 | AR025146B1 | 4/26/2007  | An Infectious CDNA Clone Of North American Porcine Reproductive And Respiratory Syndrome (PRRS) Viru  |
| 010278A    | Argentina | P070101362    | 3/30/2007  |            |            | An Infectious CDNA Clone Of North American Porcine Reproductive And Respiratory Syndrome (PRRS) Viru  |
| 010298A    | Argentina | P000200201    | 1/17/2000  | AR035474B1 | 9/29/2006  | Adjuvants For Use In Vaccines                                                                         |
| 010299A    | Argentina | P990106727    | 12/23/1999 | AR020022B1 | 8/31/2009  | Erysipelothrix Rhusiopathiae Antigens And Vaccine Compositions                                        |
| 010475A    | Argentina | P990105876    | 11/18/1999 | AR019496B1 | 4/30/2010  | 13-membered Azalides And Their Use As Antibiotic Agents                                               |
| 010475A    | Argentina | P070100662    | 2/15/2007  | AR059523B2 | 9/30/2011  | 13-membered Azalides And Their Use As Antibiotic Agents                                               |
| 010475A    | Argentina | P070100663    | 11/18/1999 | AR059524B2 | 10/29/2010 | 13-membered Azalides And Their Use As Antibiotic Agents                                               |
| 010610A    | Argentina | P030101210    | 4/7/2003   | AR039387B2 | 12/12/2006 | Azalide Antibiotic Compositions                                                                       |
| 010610A    | Argentina | P010100319    | 1/25/2001  | AR030045A1 | 12/12/2006 | Azalide Antibiotic Compositions                                                                       |
| 010650A    | Argentina | P000104131    | 8/10/2000  | AR022646B1 | 4/14/2009  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                                |
| 010849A    | Argentina | P020101536    | 4/26/2002  | AR035871B1 | 3/27/2012  | Process For Preparing 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin-a Derivatives"                 |
| 011807A    | Argentina | P020102408    | 6/26/2002  | AR036158B1 | 3/26/2012  | Triamide-substituted Indoles, Benzofuranes And Benzothiofenenes As Inhibitors Of Microsomal Triglycer |
| 011858A    | Argentina | P020102479    | 7/1/2002   |            |            | One Dose Vaccination Of Pigs With Mycoplasma Hyopneumoniae                                            |

| Docket No. | Country   | App. No.    | App. Date  | Patent No. | Grant Date | Title                                                                                                 |
|------------|-----------|-------------|------------|------------|------------|-------------------------------------------------------------------------------------------------------|
| 023034A    | Argentina | P030100408  | 2/10/2003  |            |            | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                                |
| 023064A    | Argentina | P020104594  | 11/28/2002 |            |            | Formulations Of Cephalosporin                                                                         |
| 025246A    | Argentina | P030103054  | 8/25/2003  |            |            | Cattle Reproductive Disease Vaccines                                                                  |
| 025328A    | Argentina | P040101078  | 3/31/2004  |            |            | Microfluidized Oil-in-water Emulsions And Vaccine Compositions                                        |
| 025670A    | Argentina | P050100283  | 1/27/2005  |            |            | Antimicrobial Preservatives To Achieve Multi-dose Formulation Using B-cyclodextrins For Liquid Dosage |
| 025951A    | Argentina | P040102694  | 7/29/2004  |            |            | Safe Mutant Viral Vaccines                                                                            |
| 027946A    | Argentina | P060104101  | 9/19/2006  |            |            | Solid Salt Forms Of A Pyrrole Substituted 2-indolinone                                                |
| 032251A    | Argentina | P050101316  | 4/4/2005   |            |            | Microfluidized Oil-In-Water Emulsions And Vaccine Compositions                                        |
| 033031A    | Argentina | P060105386  | 12/6/2006  |            |            | Marked Bovine Viral Diarrhea Virus Vaccines                                                           |
| 033104A    | Argentina | P060104390  | 10/5/2006  |            |            | Vaccines And Methods To Treat Canine Influenza                                                        |
| 033250A    | Argentina | P070100334  | 1/25/2007  |            |            | Novel Glycolipid Adjuvant Compositions                                                                |
| 033251A    | Argentina | P070104028  | 9/11/2007  |            |            | Heat Treated Bacterins And Emulsion Vaccines Prepared From Such Heat Treated Bacterins                |
| 033517A    | Argentina | P070105897  | 12/26/2007 |            |            | Methods Of Vaccine Administration                                                                     |
| 009576A    | Armenia   | EA199901015 | 5/29/1998  | EA002441   | 4/25/2002  | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                       |
| 010475A    | Armenia   | EA200100416 | 11/9/1999  | 005156     | 12/30/2004 | 13-membered Azalides And Their Use As Antibiotic Agents                                               |
| 010475A    | Armenia   | 200400701   | 6/21/2004  | 009729     | 2/28/2008  | 13-membered Azalides And Their Use As Antibiotic Agents                                               |
| 009576A    | Australia | 73475/98    | 5/29/1998  | 749816     | 10/24/2002 | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                       |
| 010216A    | Australia | 44248/00    | 5/18/2000  | 767334     | 2/19/2004  | Polymorphs Of A Crystalline Azobicyclo (2.2.2) Octan-3-amine Citrate And Their Pharmaceutical Compos  |
| 010278A    | Australia | 61733/99    | 11/29/1999 | 769841     | 5/27/2004  | An Infectious CDNA Clone Of North American Porcine Reproductive And Respiratory Syndrome (PRRS) Viru  |
| 010298A    | Australia | 769539      | 12/21/1999 | 769539     | 5/13/2004  | Adjuvants For Use In Vaccines                                                                         |
| 010298A    | Australia | 2003-204726 | 6/16/2003  | 2003204726 | 6/1/2006   | Adjuvants For Use In Vaccines                                                                         |

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|------------|-----------|------------|------------|------------|------------|-------------------------------------------------------------------------------------------------------|
| 010299A    | Australia | 776847     | 11/16/1999 | 776847     | 1/13/2005  | Erysipelothrix Rhusiopathiae Antigens And Vaccine Compositions                                        |
| 010475A    | Australia | 766106     | 11/9/1999  | 766106     | 1/29/2004  | 13-membered Azalides And Their Use As Antibiotic Agents                                               |
| 010610A    | Australia | 779748     | 11/30/2000 | 779748     | 6/9/2005   | Azalide Antibiotic Compositions                                                                       |
| 010650A    | Australia | 58386/00   | 7/24/2000  | 778837     | 5/5/2005   | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                                |
| 010849A    | Australia | 35630/02   | 4/24/2002  | 784362     | 6/29/2006  | Process For Preparing 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin-a Derivatives"                 |
| 011807A    | Australia | 2002307839 | 5/24/2002  | 2002307839 | 6/29/2006  | Triamide-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer  |
| 011858A    | Australia | 2002309109 | 6/7/2002   | 2002309109 | 3/27/2008  | One Dose Vaccination Of Pigs With Mycoplasma Hyopneumoniae                                            |
| 023034A    | Australia | 2003245052 | 1/31/2003  | 2003245052 | 11/13/2008 | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                                |
| 023064A    | Australia | 2002348986 | 11/13/2002 | 2002348986 | 7/17/2008  | Formulations Of Cephalosporin                                                                         |
| 025246A    | Australia | 2003263390 | 8/14/2003  | 2003263390 | 4/2/2009   | Cattle Reproductive Disease Vaccines                                                                  |
| 025246A    | Australia | 2008258154 | 12/16/2008 | 2008258154 | 11/3/2011  | Cattle Reproductive Disease Vaccines                                                                  |
| 025328A    | Australia | 2004226591 | 3/22/2004  | 2004226591 | 9/17/2009  | Microfluidized Oil-in-water Emulsions And Vaccine Compositions                                        |
| 025353A    | Australia | 2004294810 | 11/22/2004 |            |            | In Ovo Vaccination Of Campylobacter In Avian Species                                                  |
| 025353A    | Australia |            |            |            |            | In Ovo Vaccination Of Campylobacter In Avian Species                                                  |
| 025496A    | Australia | 2004208556 | 1/15/2004  | 2004208556 | 9/17/2009  | Canine Vaccines Against Bordetella Bronchiseptica                                                     |
| 025496A    | Australia | 2005290921 | 9/23/2005  |            |            | Canine Vaccines Against Bordetella Bronchiseptica                                                     |
| 025496A    | Australia | 2012244091 | 10/19/2012 |            |            | Canine Vaccines Against Bordetella Bronchiseptica                                                     |
| 025521A    | Australia | 2004231359 | 4/13/2004  | 2004231359 | 11/5/2009  | Methods For Preventing Cattle Reproductive Diseases                                                   |
| 025670A    | Australia | 2005216709 | 1/17/2005  | 2005216709 | 5/22/2008  | Antimicrobial Preservatives To Achieve Multi-dose Formulation Using B-cyclodextrins For Liquid Dosage |
| 025951A    | Australia | 2004268514 | 7/26/2004  | 2004268514 | 5/6/2010   | Safe Mutant Viral Vaccines                                                                            |
| 027946A    | Australia | 2006293644 | 9/8/2006   | 2006293644 | 9/13/2012  | Solid Salt Forms Of A Pyrole Substituted 2-indolinone                                                 |

| Docket No. | Country   | App. No.   | App. Date  | Parent No. | Grant Date | Title                                                                                                 |
|------------|-----------|------------|------------|------------|------------|-------------------------------------------------------------------------------------------------------|
| 032251A    | Australia | 2005230708 | 3/24/2005  | 2005230708 | 4/30/2009  | Microfluidized Oil-In-Water Emulsions And Vaccine Compositions                                        |
| 032632A    | Australia | 2006253891 | 2/13/2006  | 2006253891 | 3/15/2012  | N Protein Mutants Of Porcine Reproductive And Respiratory Syndrome Virus                              |
| 032633A    | Australia | 2005303510 | 11/2/2005  | 2005303510 | 5/19/2011  | Mutant Porcine Reproductive And Respiratory Syndrome Virus                                            |
| 032702A    | Australia | 2006273753 | 7/17/2006  | 2006273753 | 10/7/2010  | Methods Of Vaccine Administration, New Feline Caliciviruses, And Treatments For Immunizing Animals A  |
| 032702A    | Australia | 2010212382 | 8/16/2010  |            |            | Methods Of Vaccine Administration, New Feline Caliciviruses, And Treatments For Immunizing Animals A  |
| 033031A    | Australia | 2006323028 | 11/24/2006 | 2006323028 | 6/10/2010  | Marked Bovine Viral Diarrhea Virus Vaccines                                                           |
| 033104A    | Australia | 2006300927 | 9/25/2006  | 2006300927 | 8/26/2010  | Vaccines And Methods To Treat Canine Influenza                                                        |
| 033250A    | Australia | 2007209104 | 1/15/2007  | 2007209104 | 7/22/2010  | Novel Glycolipid Adjuvant Compositions                                                                |
| 033251A    | Australia | 2007297287 | 8/30/2007  |            |            | Heat Treated Bacterins And Emulsion Vaccines Prepared From Such Heat Treated Bacterins                |
| 033517A    | Australia | 2007343130 | 11/23/2007 |            |            | Methods Of Vaccine Administration                                                                     |
| 009576A    | Austria   | 98920693.3 | 5/29/1998  | E251173    | 10/1/2003  | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                       |
| 009576A    | Austria   | SZ 10/2004 | 5/6/2004   | SZ 10/2004 | 4/20/2006  | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                       |
| 010278A    | Austria   | 99309409.3 | 11/25/1999 | E309364    | 11/9/2005  | An Infectious CDNA Clone Of North American Porcine Reproductive And Respiratory Syndrome (PRRS) Virus |
| 010298A    | Austria   | 99310514.7 | 12/23/1999 | E311900    | 12/7/2005  | Adjuvants For Use In Vaccines                                                                         |
| 010298A    | Austria   | 05023118.2 | 10/24/2005 | E533504    | 11/16/2011 | Adjuvants For Use In Vaccines                                                                         |
| 010299A    | Austria   | 99309202.2 | 11/18/1999 | E386540    | 2/20/2008  | Erysipelothrix Rhusiopathiae Antigens And Vaccine Compositions                                        |
| 010475A    | Austria   | 99954277.2 | 11/9/1999  | E260927    | 3/3/2004   | 13-membered Azalides And Their Use As Antibiotic Agents                                               |
| 010610A    | Austria   | 00979850.5 | 11/30/2000 | E243703    | 6/25/2003  | Azalide Antibiotic Compositions                                                                       |
| 010650A    | Austria   | 00944154.4 | 7/24/2000  | E341632    | 10/4/2006  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                                |



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|------------|------------|-------------|------------|-----------|------------|------------------------------------------------------------------------------------------------------|
| 011807A    | Austria    | 02780923.5  | 5/24/2002  | E405548   | 8/20/2008  | Triamide-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer |
| 011858A    | Austria    | 02735755.7  | 6/7/2002   | E412426   | 10/29/2008 | One Dose Vaccination Of Pigs With Mycoplasma Hyopneumoniae                                           |
| 023034A    | Austria    | 03739390.7  | 1/31/2003  | E426659   | 3/25/2009  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 023034A    | Austria    | 09150098.3  | 1/6/2009   | E530645   | 10/26/2011 | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 023064A    | Austria    | 02781499.5  | 11/13/2002 | E406916   | 9/3/2008   | Formulations Of Cephalosporin                                                                        |
| 025951A    | Austria    | 04801973.1  | 7/26/2004  | E489107   | 11/24/2010 | Safe Mutant Viral Vaccines                                                                           |
| 027946A    | Austria    | 06795470.1  | 9/8/2006   | E437160   | 7/22/2009  | Solid Salt Forms Of A Pyrrole Substituted 2-indolinone                                               |
| 032220A    | Austria    | 05789769.6  | 9/23/2005  | E524193   | 9/14/2011  | Canine Vaccines Against Bordetella Bronchiseptica                                                    |
| 032702A    | Austria    | 06795148.3  | 7/17/2006  | E496629   | 1/26/2011  | Methods Of Vaccine Administration, New Feline Caliciviruses, And Treatments For Immunizing Animals A |
| 009576A    | Azerbaijan | EA199901015 | 5/29/1998  | EA002441  | 4/25/2002  | 4-substituted-9-deoxo-9a-aza-9a-homocerythromycin A Derivatives"                                     |
| 010475A    | Azerbaijan | EA200100416 | 11/9/1999  | 005156    | 12/30/2004 | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 010475A    | Azerbaijan | 200400701   | 6/21/2004  | 009729    | 2/28/2008  | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 009576A    | Belarus    | EA199901015 | 5/29/1998  | EA002441  | 4/25/2002  | 4-substituted-9-deoxo-9a-aza-9a-homocerythromycin A Derivatives"                                     |
| 010475A    | Belarus    | EA200100416 | 11/9/1999  | 005156    | 12/30/2004 | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 010475A    | Belarus    | 200400701   | 6/21/2004  | 009729    | 2/28/2008  | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 009576A    | Belgium    | 98920693.3  | 5/29/1998  | 0988310   | 10/1/2003  | 4-substituted-9-deoxo-9a-aza-9a-homocerythromycin A Derivatives"                                     |
| 009576A    | Belgium    | 2004C/012   | 5/10/2004  | 2004C/012 | 10/5/2004  | 4-substituted-9-deoxo-9a-aza-9a-homocerythromycin A Derivatives"                                     |
| 010278A    | Belgium    | 99309409.3  | 11/25/1999 | 1018557   | 11/9/2005  | An Infectious CDNA Clone Of North American Porcine Reproductive And Respiratory Syndrome (PRRS) Viru |
| 010298A    | Belgium    | 99310514.7  | 12/23/1999 | 1023904   | 12/7/2005  | Adjuvants For Use In Vaccines                                                                        |

| Docket No. | Country | App. No.    | App. Date  | Patent No.  | Grant Date | Title                                                                                                |
|------------|---------|-------------|------------|-------------|------------|------------------------------------------------------------------------------------------------------|
| 010298A    | Belgium | 05023118.2  | 10/24/2005 | 1616573     | 11/16/2011 | Adjuvants For Use In Vaccines                                                                        |
| 010299A    | Belgium | 99309202.2  | 11/18/1999 | 1027895     | 2/20/2008  | Erysipelothrix Rhusiopathiae Antigens And Vaccine Compositions                                       |
| 010475A    | Belgium | 99954277.2  | 11/9/1999  | 1131331     | 3/3/2004   | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 010610A    | Belgium | 00979850.5  | 11/30/2000 | EP1250343   | 6/25/2003  | Azalide Antibiotic Compositions                                                                      |
| 010650A    | Belgium | 00944154.4  | 7/24/2000  | 1200606     | 10/4/2006  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 011807A    | Belgium | 02780923.5  | 5/24/2002  | 1404653     | 8/20/2008  | Triamide-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer |
| 011858A    | Belgium | 02735755.7  | 6/7/2002   | 1474067     | 10/29/2008 | One Dose Vaccination Of Pigs With Mycoplasma Hyopneumoniae                                           |
| 023034A    | Belgium | 03739390.7  | 1/31/2003  | 1476539     | 3/25/2009  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 023034A    | Belgium | 09150098.3  | 1/6/2009   | 2050815     | 10/26/2011 | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 023064A    | Belgium | 02781499.5  | 11/13/2002 | 1448234     | 9/3/2008   | Formulations Of Cephalosporin                                                                        |
| 025951A    | Belgium | 04801973.1  | 7/26/2004  | 1651263     | 11/24/2010 | Safe Mutant Viral Vaccines                                                                           |
| 027946A    | Belgium | 06795470.1  | 9/8/2006   | 1928858     | 7/22/2009  | Solid Salt Forms Of A Pyrrole Substituted 2-indolinone                                               |
| 032220A    | Belgium | 05789769.6  | 9/23/2005  | 1799253     | 9/14/2011  | Canine Vaccines Against Bordetella Bronchiseptica                                                    |
| 032702A    | Belgium | 06795148.3  | 7/17/2006  | 1912665     | 1/26/2011  | Methods Of Vaccine Administration, New Feline Caliciviruses, And Treatments For Immunizing Animals A |
| 009576A    | Brazil  | PI9810519-1 | 5/29/1998  | PI9810519-1 | 2/22/2012  | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 009576A    | Brazil  | PI9816344-2 | 10/13/2010 |             |            | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 010278A    | Brazil  | PI9905902-9 | 12/17/1999 |             |            | An Infectious CDNA Clone Of North American Porcine Reproductive And Respiratory Syndrome (PRRS) Viru |
| 010278A    | Brazil  | PI9917731-5 | 5/11/2009  |             |            | An Infectious CDNA Clone Of North American Porcine Reproductive And Respiratory Syndrome (PRRS) Viru |



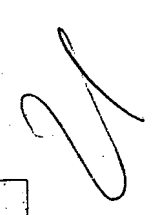
| Docket No. | Country | App. No.    | App. Date  | Patent No.  | Grant Date | Title                                                                                                 |
|------------|---------|-------------|------------|-------------|------------|-------------------------------------------------------------------------------------------------------|
| 010278A    | Brazil  | PI9917832-0 | 5/4/2010   |             |            | An Infectious CDNA Clone Of North American Porcine Reproductive And Respiratory Syndrome (PRRS) Virus |
| 010298A    | Brazil  | PI0000126-0 | 1/19/2000  |             |            | Adjuvants For Use In Vaccines                                                                         |
| 010298A    | Brazil  | PI0017566-8 | 5/10/2010  |             |            | Adjuvants For Use In Vaccines                                                                         |
| 010299A    | Brazil  | PI9905853-7 | 12/15/1999 | PI9905853-7 | 11/1/2011  | Erysipelothrix Rhusiopathiae Antigens And Vaccine Compositions                                        |
| 010475A    | Brazil  | PI9915480-3 | 11/9/1999  |             |            | 13-membered Azalides And Their Use As Antibiotic Agents                                               |
| 010610A    | Brazil  | PI0017013-5 | 11/30/2000 |             |            | Azalide Antibiotic Compositions                                                                       |
| 010650A    | Brazil  | PI0013119-9 | 7/24/2000  |             |            | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                                |
| 010849A    | Brazil  | PI0201437-8 | 4/26/2002  |             |            | Process For Preparing 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin-a Derivatives"                 |
| 011807A    | Brazil  | PI0210616-7 | 5/24/2002  |             |            | Triamide-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer  |
| 011858A    | Brazil  | PI0210804-6 | 6/7/2002   |             |            | One Dose Vaccination Of Pigs With Mycoplasma Hyopneumoniae                                            |
| 023034A    | Brazil  | PI0307620-2 | 1/31/2003  |             |            | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                                |
| 023064A    | Brazil  | PI0214583-9 | 11/13/2002 |             |            | Formulations Of Cephalosporin                                                                         |
| 023106A    | Brazil  | PI0214044-6 | 11/4/2002  |             |            | Benzamide, Heteroarylamide And Reverse Amides                                                         |
| 025246A    | Brazil  | PI0313806-2 | 8/14/2003  |             |            | Cattle Reproductive Disease Vaccines                                                                  |
| 025328A    | Brazil  | PI0408635-0 | 3/22/2004  |             |            | Microfluidized Oil-in-water Emulsions And Vaccine Compositions                                        |
| 025670A    | Brazil  | PI0506496-1 | 1/17/2005  |             |            | Antimicrobial Preservatives To Achieve Multi-dose Formulation Using B-cyclodextrins For Liquid Dosage |
| 025951A    | Brazil  | PI0413107-0 | 7/26/2004  |             |            | Safe Mutant Viral Vaccines                                                                            |
| 027946A    | Brazil  | PI0616374-2 | 9/8/2006   |             |            | Solid Salt Forms Of A Pyrrole Substituted 2-indolinone                                                |
| 032220A    | Brazil  | PI0516253-0 | 9/23/2005  |             |            | Canine Vaccines Against Bordetella Bronchiseptica                                                     |
| 032251A    | Brazil  | PI0509606-5 | 3/24/2005  |             |            | Microfluidized Oil-In-Water Emulsions And Vaccine Compositions                                        |

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|------------|----------|-------------|------------|-----------------|------------|------------------------------------------------------------------------------------------------------|
| 032632A    | Brazil   | PI0606189-3 | 2/13/2006  |                 |            | N Protein Mutants Of Porcine Reproductive And Respiratory Syndrome Virus                             |
| 032702A    | Brazil   | PI0614119-6 | 7/17/2006  |                 |            | Methods Of Vaccine Administration, New Feline Caliciviruses, And Treatments For Immunizing Animals A |
| 033031A    | Brazil   | PI0619566-0 | 11/24/2006 |                 |            | Marked Bovine Viral Diarrhea Virus Vaccines                                                          |
| 033104A    | Brazil   | PI0616328-9 | 9/25/2006  |                 |            | Vaccines And Methods To Treat Canine Influenza                                                       |
| 033250A    | Brazil   | PI0706709-7 | 1/15/2007  |                 |            | Novel Glycolipid Adjuvant Compositions                                                               |
| 033251A    | Brazil   | PI0716548-0 | 8/30/2007  |                 |            | Heat Treated Bacterins And Emulsion Vaccines Prepared From Such Heat Treated Bacterins               |
| 033517A    | Brazil   | PI0720667-4 | 11/23/2007 |                 |            | Methods Of Vaccine Administration                                                                    |
| 009576A    | Bulgaria | 103945      | 5/29/1998  | 64391           | 10/6/2004  | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 009576A    | Bulgaria | 070032      | 5/28/2007  | 64391           | 7/4/2008   | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 010475A    | Bulgaria | 105600      | 11/9/1999  | 65107           | 10/27/2006 | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 010650A    | Bulgaria | 106479      | 7/24/2000  | 65902           | 1/26/2010  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 011858A    | Bulgaria | 108546      | 6/7/2002   |                 |            | One Dose Vaccination Of Pigs With Mycoplasma Hyopneumoniae                                           |
| 023034A    | Bulgaria | 03739390.7  | 1/31/2003  | BG/EP1476539T 3 | 3/25/2009  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 023034A    | Bulgaria | 09150098.3  | 1/6/2009   | 2050815         | 10/26/2011 | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 023064A    | Bulgaria | 02781499.5  | 11/13/2002 | 1448234         | 9/3/2008   | Formulations Of Cephalosporin                                                                        |
| 025951A    | Bulgaria | 04801973.1  | 7/26/2004  | 1651263         | 11/24/2010 | Safe Mutant Viral Vaccines                                                                           |
| 027946A    | Bulgaria | 06795470.1  | 9/8/2006   | 1928858         | 7/22/2009  | Solid Salt Forms Of A Pyrrole Substituted 2-indolinone                                               |
| 032220A    | Bulgaria | 05789769.6  | 9/23/2005  | 1799253         | 9/14/2011  | Canine Vaccines Against Bordetella Bronchiseptica                                                    |
| 009576A    | Canada   | 2293823     | 5/29/1998  | 2293823         | 2/17/2004  | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 010216A    | Canada   | 2372238     | 5/18/2000  | 2372238         | 12/19/2006 | Polymorphs Of A Crystalline Azobicyclo (2.2.2) Octan-3-amine Citrate And Their Pharmaceutical Compos |

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|------------|---------|----------|------------|------------|------------|-------------------------------------------------------------------------------------------------------|
| 010278A    | Canada  | 2290220  | 11/23/1999 |            |            | An Infectious CDNA Clone Of North American Porcine Reproductive And Respiratory Syndrome (PRRS) Virus |
| 010298A    | Canada  | 2296244  | 1/19/2000  | 2296244    | 4/27/2004  | Adjuvants For Use In Vaccines                                                                         |
| 010298A    | Canada  | 2455134  | 2/17/2004  | 2455134    | 5/11/2010  | Adjuvants For Use In Vaccines                                                                         |
| 010299A    | Canada  | 2290078  | 11/16/1999 |            |            | Erysipelothrix Rhusiopathiae Antigens And Vaccine Compositions                                        |
| 010475A    | Canada  | 2351429  | 11/9/1999  | 2351429    | 7/12/2005  | 13-membered Azalides And Their Use As Antibiotic Agents                                               |
| 010512A    | Canada  | 2372206  | 4/14/2000  | 2372206    | 1/10/2006  | Novel Crystalline Forms Of A Macrolide Antibiotic                                                     |
| 010610A    | Canada  | 2398485  | 11/30/2000 | 2398485    | 1/29/2008  | Azalide Antibiotic Compositions                                                                       |
| 010650A    | Canada  | 2380872  | 7/24/2000  | 2380872    | 11/27/2007 | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                                |
| 010761A    | Canada  | 2356124  | 8/28/2001  |            |            | Anti-IGE Vaccines                                                                                     |
| 010761A    | Canada  | 2674837  | 8/11/2009  |            |            | Anti-IGE Vaccines                                                                                     |
| 010761A    | Canada  | 2674885  | 8/11/2009  |            |            | Anti-IGE Vaccines                                                                                     |
| 010761A    | Canada  | 2674838  | 8/11/2009  |            |            | Anti-IGE Vaccines                                                                                     |
| 010761A    | Canada  | 2674888  | 8/11/2009  |            |            | Anti-IGE Vaccines                                                                                     |
| 010849A    | Canada  | 2383409  | 4/25/2002  | 2383409    | 1/20/2007  | Process For Preparing 4-substituted-9-deoxy-9a-aza-9a-homoerythromycin-a Derivatives"                 |
| 011807A    | Canada  | 2451474  | 5/24/2002  | 2451474    | 6/16/2009  | Triamide-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer  |
| 011858A    | Canada  | 2451626  | 6/7/2002   | 2451626    | 5/31/2011  | One Dose Vaccination Of Pigs With Mycoplasma Hyopneumoniae                                            |
| 023034A    | Canada  | 2475214  | 1/31/2003  | 2475214    | 7/31/2012  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                                |
| 023064A    | Canada  | 2468708  | 11/13/2002 | 2468708    | 8/19/2008  | Formulations Of Cephalosporin                                                                         |
| 023106A    | Canada  | 2466724  | 11/4/2002  | 2466724    | 10/27/2009 | Benzamide, Heteroarylamide And Reverse Amides                                                         |
| 023152A    | Canada  | 2411544  | 11/8/2002  | 2411544    | 10/7/2008  | N-alkyl-adamantyl Triazinyl Benzamide Derivatives                                                     |
| 025246A    | Canada  | 2496750  | 8/14/2003  |            |            | Cattle Reproductive Disease Vaccines                                                                  |
| 025328A    | Canada  | 2521051  | 3/22/2004  | 2521051    | 3/20/2012  | Microfluidized Oil-in-water Emulsions And Vaccine Compositions                                        |
| 025353A    | Canada  | 2547775  | 11/22/2004 | 2547775    | 1/3/2012   | In Ovo Vaccination Of Campylobacter In Avian Species                                                  |

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|------------|---------|----------|------------|------------|------------|-------------------------------------------------------------------------------------------------------|
| 025496A    | Canada  | 2513352  | 1/15/2004  | 2513352    | 10/12/2010 | Canine Vaccines Against Bordetella Bronchiseptica                                                     |
| 025521A    | Canada  | 2426280  | 4/22/2003  |            |            | Methods For Preventing Cattle Reproductive Diseases                                                   |
| 025588A    | Canada  | 2525437  | 5/10/2004  | 2525437    | 4/28/2009  | Benzamides Inhibitors Of The P2X7 Receptor                                                            |
| 025670A    | Canada  | 2554346  | 1/17/2005  | 2554346    | 11/17/2009 | Antimicrobial Preservatives To Achieve Multi-dose Formulation Using B-cyclodextrins For Liquid Dosage |
| 025951A    | Canada  | 2533877  | 7/26/2004  | 2533877    | 9/6/2011   | Safe Mutant Viral Vaccines                                                                            |
| 027946A    | Canada  | 2621569  | 9/8/2006   | 2621569    | 10/19/2010 | Solid Salt Forms Of A Pyrrole Substituted 2-indolinone                                                |
| 032220A    | Canada  | 2583689  | 9/23/2005  |            |            | Canine Vaccines Against Bordetella Bronchiseptica                                                     |
| 032251A    | Canada  | 2561914  | 3/24/2005  |            |            | Microfluidized Oil-In-Water Emulsions And Vaccine Compositions                                        |
| 032632A    | Canada  | 2599322  | 2/13/2006  |            |            | N Protein Mutants Of Porcine Reproductive And Respiratory Syndrome Virus                              |
| 032633A    | Canada  | 2586153  | 11/2/2005  | 2586153    | 4/3/2012   | Mutant Porcine Reproductive And Respiratory Syndrome Virus                                            |
| 032702A    | Canada  | 2617341  | 7/17/2006  | 2617341    | 3/29/2011  | Methods Of Vaccine Administration, New Feline Caliciviruses, And Treatments For Immunizing Animals A  |
| 032983A    | Canada  | 2634644  | 12/11/2006 |            |            | 8-Pyrazinyl-S-Spiropyrimidinetrione-oxazinoquinoline Derivatives as Antibacterial Agents              |
| 033031A    | Canada  | 2639074  | 11/24/2006 |            |            | Marked Bovine Viral Diarrhea Virus Vaccines                                                           |
| 033104A    | Canada  | 2621320  | 9/25/2006  |            |            | Vaccines And Methods To Treat Canine Influenza                                                        |
| 033250A    | Canada  | 2634888  | 1/15/2007  |            |            | Novel Glycolipid Adjuvant Compositions                                                                |
| 033251A    | Canada  | 2663166  | 8/30/2007  |            |            | Heat Treated Bacterins And Emulsion Vaccines Prepared From Such Heat Treated Bacterins                |
| 033517A    | Canada  | 2674026  | 11/23/2007 |            |            | Methods Of Vaccine Administration                                                                     |
| 009576A    | Chile   | 1271-98  | 6/8/1998   | 41.695     | 11/5/2002  | 4-substituted-9-deoxy-9a-aza-9a-homocerythromycin A Derivatives"                                      |
| 010475A    | Chile   | 2710-99  | 11/19/1999 | 41725      | 2/4/2003   | 13-membered Azalides And Their Use As Antibiotic Agents                                               |
| 011807A    | Chile   | 1416-02  | 6/26/2002  | 43.771     | 9/26/2008  | Triamide-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer  |



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|------------|------------|----------------|------------|----------------|------------|------------------------------------------------------------------------------------------------------|
| 011858A    | Chile      | 1461-02        | 7/1/2002   |                |            | One Dose Vaccination Of Pigs With Mycoplasma Hyopneumoniae                                           |
| 023034A    | Chile      | 0242-2003      | 2/7/2003   |                |            | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 025246A    | Chile      | 1712-2003      | 8/25/2003  | 47.584         | 10/14/2011 | Cattle Reproductive Disease Vaccines                                                                 |
| 032251A    | Chile      | 0764-2005      | 4/4/2005   |                |            | Microfluidized Oil-In-Water Emulsions And Vaccine Compositions                                       |
| 032632A    | Chile      | 0349-2006      | 2/16/2006  |                |            | N Protein Mutants Of Porcine Reproductive And Respiratory Syndrome Virus                             |
| 033104A    | Chile      | 2698-2006      | 10/6/2006  |                |            | Vaccines And Methods To Treat Canine Influenza                                                       |
| 033250A    | Chile      | 205-2007       | 1/26/2007  | 47.466         | 9/13/2011  | Novel Glycolipid Adjuvant Compositions                                                               |
| 033251A    | Chile      | 2621-2007      | 9/10/2007  |                |            | Heat Treated Bacterins And Emulsion Vaccines Prepared From Such Heat Treated Bacterins               |
| 009576A    | China P.R. | 98805922.3     | 5/29/1998  | ZL98805922.3   | 4/2/2004   | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 009576A    | China P.R. | 200410049112.2 | 5/29/1998  | 200410049112.2 | 3/1/2006   | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 009576A    | China P.R. | 200610051345.5 | 1/5/2006   | 200610051345.5 | 5/12/2010  | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 009576A    | China P.R. | 200910145318.8 | 6/1/2009   |                |            | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 010216A    | China P.R. | 00808278.2     | 5/18/2000  | ZL00808278.2   | 4/21/2004  | Polymorphs Of A Crystalline Azobicyclo (2.2.2) Octan-3-amine Citrate And Their Pharmaceutical Compos |
| 010278A    | China P.R. | 99126505.X     | 12/22/1999 | ZL99126505.X   | 10/20/2004 | An Infectious CDNA Clone Of North American Porcine Reproductive And Respiratory Syndrome (PRRS) Viru |
| 010298A    | China P.R. | 00101175.8     | 1/28/2000  | ZL00101175.8   | 11/5/2003  | Adjuvants For Use In Vaccines                                                                        |
| 010298A    | China P.R. | 03130605.5     | 4/29/2003  | 03130605.5     | 8/22/2012  | Adjuvants For Use In Vaccines                                                                        |
| 010299A    | China P.R. | 99126163.1     | 12/15/1999 | ZL99126163.1   | 7/13/2005  | Erysipelothrix Rhusiopathiae Antigens And Vaccine Compositions                                       |
| 010475A    | China P.R. | 200810081358.6 | 2/25/2008  |                |            | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 010650A    | China P.R. | 00811747.0     | 7/24/2000  | ZL00811747.0   | 1/26/2005  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 010849A    | China P.R. | 02118435.6     | 4/25/2002  | ZL02118435.6   | 9/22/2004  | Process For Preparing 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin-a Derivatives"                |

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|------------|------------|----------------|------------|----------------|------------|------------------------------------------------------------------------------------------------------|
| 010849A    | China P.R. | 200410039688.0 | 4/25/2002  | ZL0410039688.0 | 1/17/2007  | Process For Preparing 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin-a Derivatives"                |
| 011807A    | China P.R. | 02813021.9     | 5/24/2002  | ZL02813021.9   | 4/21/2010  | Triamide-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer |
| 011807A    | China P.R. | 200610094114.2 | 6/27/2006  | 200610094114.2 | 11/24/2010 | Triamide-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer |
| 011858A    | China P.R. | 02813344.7     | 6/7/2002   | 100037         | 9/3/2012   | One Dose Vaccination Of Pigs With Mycoplasma Hyopneumoniae                                           |
| 011858A    | China P.R. | 200810186079.6 | 12/22/2008 |                |            | One Dose Vaccination Of Pigs With Mycoplasma Hyopneumoniae                                           |
| 011858A    | China P.R. | 201210389058.0 | 10/15/2012 |                |            | One Dose Vaccination Of Pigs With Mycoplasma Hyopneumoniae                                           |
| 023034A    | China P.R. | 03803741.6     | 1/31/2003  | ZL03803741.6   | 9/28/2011  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 023034A    | China P.R. | 201110208259.1 | 1/25/2011  |                |            | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 023064A    | China P.R. | 02822925.8     | 11/13/2002 | ZL02822925.8   | 6/24/2009  | Formulations Of Cephalosporin                                                                        |
| 025246A    | China P.R. | 03820316.2     | 8/14/2003  | ZL03820316.2   | 5/16/2007  | Cattle Reproductive Disease Vaccines                                                                 |
| 025328A    | China P.R. | 200480008618.7 | 3/22/2004  |                |            | Microfluidized Oil-in-water Emulsions And Vaccine Compositions                                       |
| 027946A    | China P.R. | 200680034505.3 | 9/8/2006   |                |            | Solid Salt Forms Of A Pyrrole Substituted 2-indolinone                                               |
| 032220A    | China P.R. | 200580034194.6 | 9/23/2005  | 200580034194.6 | 4/6/2011   | Canine Vaccines Against Bordetella Bronchiseptica                                                    |
| 032251A    | China P.R. | 200580011985.7 | 3/24/2005  | 200580011985.7 | 10/10/2012 | Microfluidized Oil-In-Water Emulsions And Vaccine Compositions                                       |
| 032632A    | China P.R. | 200680006214.3 | 2/13/2006  |                |            | N Protein Mutants Of Porcine Reproductive And Respiratory Syndrome Virus                             |
| 032702A    | China P.R. | 200680035988.9 | 7/17/2006  |                |            | Methods Of Vaccine Administration, New Feline Caliciviruses, And Treatments For Immunizing Animals A |
| 033031A    | China P.R. | 200680050797.X | 11/24/2006 | 200680050797.X | 3/21/2012  | Marked Bovine Viral Diarrhea Virus Vaccines                                                          |
| 033250A    | China P.R. | 200780003499.X | 1/15/2007  |                |            | Novel Glycolipid Adjuvant Compositions                                                               |
| 033251A    | China P.R. | 200780033767.2 | 8/30/2007  |                |            | Heat Treated Bacterins And Emulsion Vaccines Prepared From Such Heat Treated Bacterins               |



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|------------|------------|----------------|------------|------------|------------|------------------------------------------------------------------------------------------------------|
| 033517A    | China P.R. | 200780048424.3 | 11/23/2007 |            |            | Methods Of Vaccine Administration                                                                    |
| 009576A    | Colombia   | 98033232       | 6/10/1998  | 27645      | 2/3/2003   | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 010475A    | Colombia   | 99072704       | 11/18/1999 | 28116      | 12/27/2004 | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 010475A    | Colombia   | 99072704A      | 11/18/1999 | 28242      | 5/25/2005  | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 011807A    | Colombia   | 03-094.621     | 5/24/2002  | 663        | 3/30/2009  | Triamide-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer |
| 025246A    | Colombia   | 05-014.184     | 8/14/2003  | 933        | 10/30/2009 | Cattle Reproductive Disease Vaccines                                                                 |
| 025246A    | Colombia   | 05-014.184A    | 8/27/2009  | 902        | 8/6/2010   | Cattle Reproductive Disease Vaccines                                                                 |
| 025951A    | Colombia   | 06-007.814     | 7/26/2004  | 17657      | 3/30/2011  | Safe Mutant Viral Vaccines                                                                           |
| 032220A    | Colombia   | 07-033.679     | 9/23/2005  |            |            | Canine Vaccines Against Bordetella Bronchiseptica                                                    |
| 032251A    | Colombia   | 06-100.763     | 3/24/2005  |            |            | Microfluidized Oil-In-Water Emulsions And Vaccine Compositions                                       |
| 032251A    | Colombia   | 06-100.763A    | 6/27/2012  |            |            | Microfluidized Oil-In-Water Emulsions And Vaccine Compositions                                       |
| 032632A    | Colombia   | 07-086.498     | 2/13/2006  |            |            | N Protein Mutants Of Porcine Reproductive And Respiratory Syndrome Virus                             |
| 033031A    | Colombia   | 08-056.713     | 11/24/2006 |            |            | Marked Bovine Viral Diarrhea Virus Vaccines                                                          |
| 033104A    | Colombia   | 08-033.470     | 9/25/2006  |            |            | Vaccines And Methods To Treat Canine Influenza                                                       |
| 033250A    | Colombia   | 08-075.683     | 1/15/2007  |            |            | Novel Glycolipid Adjuvant Compositions                                                               |
| 033251A    | Colombia   | 09-024-344     | 8/30/2007  |            |            | Heat Treated Bacterins And Emulsion Vaccines Prepared From Such Heat Treated Bacterins               |
| 009576A    | Croatia    | P980314A       | 6/11/1998  | P980314    | 5/18/2004  | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 010475A    | Croatia    | P20010374A     | 11/9/1999  | P20010374  | 9/8/2006   | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 011807A    | Croatia    | 20031051       | 5/24/2002  | P20031051  | 1/11/2012  | Triamide-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer |
| 025246A    | Croatia    | P20050192A     | 8/14/2003  |            |            | Cattle Reproductive Disease Vaccines                                                                 |
| 025246A    | Croatia    | P20090271A     | 5/14/2009  |            |            | Cattle Reproductive Disease Vaccines                                                                 |

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|------------|----------------|----------------|------------|------------|------------|-------------------------------------------------------------------------------------------------------|
| 010278A    | Cyprus         | 99309409.3     | 11/25/1999 | CY1105680  | 11/9/2005  | An Infectious CDNA Clone Of North American Porcine Reproductive And Respiratory Syndrome (PRRS) Virus |
| 010298A    | Cyprus         | 99310514.7     | 12/23/1999 | CY1105684  | 12/7/2005  | Adjuvants For Use In Vaccines                                                                         |
| 010298A    | Cyprus         | 05023118.2     | 10/24/2005 | CY1112521  | 11/16/2011 | Adjuvants For Use In Vaccines                                                                         |
| 010299A    | Cyprus         | 99309202.2     | 11/18/1999 | CY1107910  | 2/20/2008  | Erysipelothrix Rhusiopathiae Antigens And Vaccine Compositions                                        |
| 010610A    | Cyprus         | 00979850.5     | 11/30/2000 | CY1101054  | 6/25/2003  | Azalide Antibiotic Compositions                                                                       |
| 010650A    | Cyprus         | 00944154.4     | 7/24/2000  | CY1105778  | 10/4/2006  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                                |
| 011807A    | Cyprus         | 02780923.5     | 5/24/2002  | CY1108407  | 8/20/2008  | Triamide-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer  |
| 011858A    | Cyprus         | 02735755.7     | 6/7/2002   | CY1108749  | 10/29/2008 | One Dose Vaccination Of Pigs With Mycoplasma Hyopneumoniae                                            |
| 023034A    | Cyprus         | 03739390.7     | 1/31/2003  | CY1110454  | 3/25/2009  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                                |
| 023034A    | Cyprus         | 09150098.3     | 1/6/2009   | 2050815    | 10/26/2011 | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                                |
| 023064A    | Cyprus         | 02781499.5     | 11/13/2002 | CY1108437  | 9/3/2008   | Formulations Of Cephalosporin                                                                         |
| 025951A    | Cyprus         | 04801973.1     | 7/26/2004  | CY1110995  | 11/24/2010 | Safe Mutant Viral Vaccines                                                                            |
| 032220A    | Cyprus         | 05789769.6     | 9/23/2005  | 1799253    | 9/14/2011  | Canine Vaccines Against Bordetella Bronchiseptica                                                     |
| 009576A    | Czech Republic | PV4421-99      | 5/29/1998  | CZ298556   | 9/26/2007  | 4-substituted-9-deoxo-9a-aza-9a-homocerythromycin A Derivatives"                                      |
| 009576A    | Czech Republic | SPC/CT2008/125 | 3/20/2008  | 298556/125 | 6/26/2008  | 4-substituted-9-deoxo-9a-aza-9a-homocerythromycin A Derivatives"                                      |
| 010475A    | Czech Republic | PV2001-1754    | 11/9/1999  | 303099     | 2/22/2012  | 13-membered Azalides And Their Use As Antibiotic Agents                                               |
| 010650A    | Czech Republic | PV2002-296     | 7/24/2000  |            |            | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                                |
| 010849A    | Czech Republic | PV2002-1417    | 4/23/2002  |            |            | Process For Preparing 4-substituted-9-deoxo-9a-aza-9a-homocerythromycin-a Derivatives"                |
| 011807A    | Czech Republic | PV2003-3558    | 5/24/2002  |            |            | Triamide-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer  |

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|------------|----------------|-------------|------------|---------------|------------|------------------------------------------------------------------------------------------------------|
| 011858A    | Czech Republic | PV2003-3466 | 6/7/2002   |               |            | One Dose Vaccination Of Pigs With Mycoplasma Hyopneumoniae                                           |
| 023034A    | Czech Republic | 03739390.7  | 1/31/2003  | 1476539       | 3/25/2009  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 023034A    | Czech Republic | 09150098.3  | 1/6/2009   | 2050815       | 10/26/2011 | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 023064A    | Czech Republic | 02781499.5  | 11/13/2002 | 1448234       | 9/3/2008   | Formulations Of Cephalosporin                                                                        |
| 025951A    | Czech Republic | 04801973.1  | 7/26/2004  | 1651263       | 11/24/2010 | Safe Mutant Viral Vaccines                                                                           |
| 027946A    | Czech Republic | 06795470.1  | 9/8/2006   | 1928858       | 7/22/2009  | Solid Salt Forms Of A Pyrrole Substituted 2-indolinone                                               |
| 032220A    | Czech Republic | 05789769.6  | 9/23/2005  | 1799253       | 9/14/2011  | Canine Vaccines Against Bordetella Bronchiseptica                                                    |
| 009576A    | Denmark        | 98920693.3  | 5/29/1998  | 0988310       | 10/1/2003  | 4-substituted-9-deoxo-9a-aza-9a-homocrythromycin A Derivatives"                                      |
| 009576A    | Denmark        | CA200400010 | 5/5/2004   | CR 2004 00010 | 9/28/2009  | 4-substituted-9-deoxo-9a-aza-9a-homocrythromycin A Derivatives"                                      |
| 010278A    | Denmark        | 99309409.3  | 11/25/1999 | 1018557       | 11/9/2005  | An Infectious CDNA Clone Of North American Porcine Reproductive And Respiratory Syndrome (PRRS) Viru |
| 010298A    | Denmark        | 99310514.7  | 12/23/1999 | 1023904       | 12/7/2005  | Adjuvants For Use In Vaccines                                                                        |
| 010298A    | Denmark        | 05023118.2  | 10/24/2005 | 1616573       | 11/16/2011 | Adjuvants For Use In Vaccines                                                                        |
| 010299A    | Denmark        | 99309202.2  | 11/18/1999 | 1027895       | 2/20/2008  | Erysipelothrix Rhusiopathiae Antigens And Vaccine Compositions                                       |
| 010475A    | Denmark        | 99954277.2  | 11/9/1999  | 1131331       | 3/3/2004   | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 010610A    | Denmark        | 00979850.5  | 11/30/2000 | EP1250343     | 6/25/2003  | Azalide Antibiotic Compositions                                                                      |
| 010650A    | Denmark        | 00944154.4  | 7/24/2000  | 1200606       | 10/4/2006  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 011807A    | Denmark        | 02780923.5  | 5/24/2002  | 1404653       | 8/20/2008  | Triamide-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer |
| 011858A    | Denmark        | 02735755.7  | 6/7/2002   | DK/EP 1474067 | 10/29/2008 | One Dose Vaccination Of Pigs With Mycoplasma Hyopneumoniae                                           |
| 023034A    | Denmark        | 03739390.7  | 1/31/2003  | 1476539       | 3/25/2009  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 023034A    | Denmark        | 09150098.3  | 1/6/2009   | 2050815       | 10/26/2011 | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 023064A    | Denmark        | 02781499.5  | 11/13/2002 | 1448234       | 9/3/2008   | Formulations Of Cephalosporin                                                                        |

| Docket No. | Country                    | App. No.       | App. Date  | Patent No. | Grant Date | Title                                                                                                |
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| 025951A    | Denmark                    | 04801973.1     | 7/26/2004  | 1651263    | 11/24/2010 | Safe Mutant Viral Vaccines                                                                           |
| 027946A    | Denmark                    | 06795470.1     | 9/8/2006   | 1928858    | 7/22/2009  | Solid Salt Forms Of A Pyrrole Substituted 2-indolinone                                               |
| 032220A    | Denmark                    | 05789769.6     | 9/23/2005  | 1799253    | 9/14/2011  | Canine Vaccines Against Bordetella Bronchiseptica                                                    |
| 009576A    | Egypt                      | 640/1998       | 6/9/1998   | 24081      | 5/11/2008  | 4-substituted-9-deoxy-9a-aza-9a-homocerythromycin A Derivatives"                                     |
| 010475A    | Egypt                      | 1476/99        | 11/17/1999 | 23823      | 9/19/2007  | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 011807A    | Estonia                    | P200400040     | 5/24/2002  | EE05452B1  | 8/31/2011  | Triamide-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer |
| 023034A    | Estonia                    | 03739390.7     | 1/31/2003  | E003346    | 3/25/2009  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 023034A    | Estonia                    | 09150098.3     | 1/6/2009   | E006171    | 10/26/2011 | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 023064A    | Estonia                    | 02781499.5     | 11/13/2002 | 1448234    | 9/3/2008   | Formulations Of Cephalosporin                                                                        |
| 025951A    | Estonia                    | 04801973.1     | 7/26/2004  | E005029    | 11/24/2010 | Safe Mutant Viral Vaccines                                                                           |
| 032220A    | Estonia                    | 05789769.6     | 9/23/2005  | E006044    | 9/14/2011  | Canine Vaccines Against Bordetella Bronchiseptica                                                    |
| 009576A    | Eurasian Patent Convention | EA199901015    | 5/29/1998  | EA002441   | 4/25/2002  | 4-substituted-9-deoxy-9a-aza-9a-homocerythromycin A Derivatives"                                     |
| 010216A    | Eurasian Patent Convention | EA200101108    | 5/18/2000  | 003731     | 8/28/2003  | Polymorphs Of A Crystalline Azobicyclo (2.2.2) Octan-3-amine Citrate And Their Pharmaceutical Compos |
| 010475A    | Eurasian Patent Convention | EA200100416    | 11/9/1999  | 005156     | 12/30/2004 | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 010475A    | Eurasian Patent Convention | 200400701      | 6/21/2004  | 009729     | 2/28/2008  | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 011807A    | Eurasian Patent Convention | 200301310      | 5/24/2002  | 007008     | 6/30/2006  | Triamide-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer |
| 011858A    | Eurasian Patent Convention | 200301323      | 6/7/2002   | 009901     | 4/28/2008  | One Dose Vaccination Of Pigs With Mycoplasma Hyopneumoniae                                           |
| 023064A    | Eurasian Patent Convention | EA200400489/26 | 11/13/2002 | 008503     | 6/29/2007  | Formulations Of Cephalosporin                                                                        |
| 025246A    | Eurasian Patent Convention | 200500275      | 8/14/2003  | 011578     | 1/26/2009  | Cattle Reproductive Disease Vaccines                                                                 |
| 025951A    | Eurasian Patent Convention | EA200600121    | 7/26/2004  | 009391     | 12/28/2007 | Safe Mutant Viral Vaccines                                                                           |

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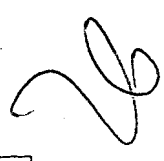
| Docket No. | Country                    | App. No.   | App. Date  | Patent No. | Grant Date | Title                                                                                                |
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| 009576A    | European Patent Convention | 98920693.3 | 5/29/1998  | 0988310    | 10/1/2003  | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 010216A    | European Patent Convention | 00925528.2 | 5/18/2000  | EP1181290  | 7/2/2003   | Polymorphs Of A Crystalline Azobicyclo (2.2.2) Octan-3-amine Citrate And Their Pharmaceutical Compos |
| 010278A    | European Patent Convention | 99309409.3 | 11/25/1999 | 1018557    | 11/9/2005  | An Infectious CDNA Clone Of North American Porcine Reproductive And Respiratory Syndrome (PRRS) Viru |
| 010278A    | European Patent Convention | 05018141.1 | 8/22/2005  |            |            | An Infectious CDNA Clone Of North American Porcine Reproductive And Respiratory Syndrome (PRRS) Viru |
| 010298A    | European Patent Convention | 99310514.7 | 12/23/1999 | 1023904    | 12/7/2005  | Adjuvants For Use In Vaccines                                                                        |
| 010298A    | European Patent Convention | 05023118.2 | 10/24/2005 | 1616573    | 11/16/2011 | Adjuvants For Use In Vaccines                                                                        |
| 010299A    | European Patent Convention | 99309202.2 | 11/18/1999 | 1027895    | 2/20/2008  | Erysipelothrix Rhusiopathiae Antigens And Vaccine Compositions                                       |
| 010475A    | European Patent Convention | 99954277.2 | 11/9/1999  | 1131331    | 3/3/2004   | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 010610A    | European Patent Convention | 00979850.5 | 11/30/2000 | 1250343    | 6/25/2003  | Azalide Antibiotic Compositions                                                                      |
| 010650A    | European Patent Convention | 00944154.4 | 7/24/2000  | 1200606    | 10/4/2006  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 010761A    | European Patent Convention | 09154655.6 | 3/9/2009   |            |            | Anti-IGE Vaccines                                                                                    |
| 010761A    | European Patent Convention | 10183753.2 | 9/30/2010  |            |            | Anti-IGE Vaccines                                                                                    |
| 010761A    | European Patent Convention | 08156884.2 | 5/26/2008  | 1967205    | 10/10/2012 | Anti-IGE Vaccines                                                                                    |
| 010761A    | European Patent Convention | 08156885.9 | 5/26/2008  | 1967206    | 10/10/2012 | Anti-IGE Vaccines                                                                                    |
| 010849A    | European Patent Convention | 02252730.3 | 4/17/2002  |            |            | Process For Preparing 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin-a Derivatives"                |
| 011807A    | European Patent Convention | 02780923.5 | 5/24/2002  | 1404653    | 8/20/2008  | Triamide-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer |
| 011858A    | European Patent Convention | 02735755.7 | 6/7/2002   | 1474067    | 10/29/2008 | One Dose Vaccination Of Pigs With Mycoplasma Hyopneumoniae                                           |

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|------------|----------------------------|------------|------------|------------|------------|-------------------------------------------------------------------------------------------------------|
| 011858A    | European Patent Convention | 08167761.9 | 10/28/2008 |            |            | One Dose Vaccination Of Pigs With Mycoplasma Hyopneumoniae                                            |
| 023034A    | European Patent Convention | 03739390.7 | 1/31/2003  | 1476539    | 3/25/2009  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                                |
| 023034A    | European Patent Convention | 09150098.3 | 1/6/2009   | 2050815    | 10/26/2011 | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                                |
| 023064A    | European Patent Convention | 02781499.5 | 11/13/2002 | 1448234    | 9/3/2008   | Formulations Of Cephalosporin                                                                         |
| 023106A    | European Patent Convention | 02783358.1 | 11/4/2002  | 1448535    | 3/16/2011  | Benzamide, Heteroarylamide And Reverse Amides                                                         |
| 023152A    | European Patent Convention | 02257719.1 | 11/7/2002  | 1310493    | 8/17/2005  | N-alkyl-adamantyl Triazinyl Benzamide Derivatives                                                     |
| 025328A    | European Patent Convention | 04722345.8 | 3/22/2004  | 1613346    | 11/28/2012 | Microfluidized Oil-in-water Emulsions And Vaccine Compositions                                        |
| 025353A    | European Patent Convention | 04798929.8 | 11/22/2004 |            |            | In Ovo Vaccination Of Campylobacter In Avian Species                                                  |
| 025496A    | European Patent Convention | 04702384.1 | 1/15/2004  | 1592444    | 5/14/2008  | Canine Vaccines Against Bordetella Bronchiseptica                                                     |
| 025588A    | European Patent Convention | 04731975.1 | 5/10/2004  | 1626962    | 2/28/2007  | Benzamides Inhibitors Of The P2X7 Receptor                                                            |
| 025588A    | European Patent Convention | 07103182.7 | 2/27/2007  | 1837330    | 10/24/2012 | Benzamides Inhibitors Of The P2X7 Receptor                                                            |
| 025670A    | European Patent Convention | 05702263.4 | 1/17/2005  |            |            | Antimicrobial Preservatives To Achieve Multi-dose Formulation Using B-cyclodextrins For Liquid Dosage |
| 025951A    | European Patent Convention | 04801973.1 | 7/26/2004  | 1651263    | 11/24/2010 | Safe Mutant Viral Vaccines                                                                            |
| 027946A    | European Patent Convention | 06795470.1 | 9/8/2006   | 1928858    | 7/22/2009  | Solid Salt Forms Of A Pyrrole Substituted 2-indolinone                                                |
| 032220A    | European Patent Convention | 05789769.6 | 9/23/2005  | 1799253    | 9/14/2011  | Canine Vaccines Against Bordetella Bronchiseptica                                                     |
| 032251A    | European Patent Convention | 05718292.5 | 3/24/2005  |            |            | Microfluidized Oil-In-Water Emulsions And Vaccine Compositions                                        |
| 032251A    | European Patent Convention | 10178441.1 | 9/22/2010  |            |            | Microfluidized Oil-In-Water Emulsions And Vaccine Compositions                                        |
| 032632A    | European Patent Convention | 06779692.0 | 2/13/2006  |            |            | N Protein Mutants Of Porcine Reproductive And Respiratory Syndrome Virus                              |
| 032633A    | European Patent Convention | 05798953.5 | 11/2/2005  |            |            | Mutant Porcine Reproductive And Respiratory Syndrome Virus                                            |

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|------------|----------------------------|------------|------------|------------|------------|------------------------------------------------------------------------------------------------------|
| 032702A    | European Patent Convention | 06795148.3 | 7/17/2006  | 1912665    | 1/26/2011  | Methods Of Vaccine Administration, New Feline Caliciviruses, And Treatments For Immunizing Animals A |
| 032983A    | European Patent Convention | 06831728.8 | 12/11/2006 |            |            | 8-Pyrazinyl-S-Spiropyrimidinetrione-oxazinoquinoline Derivatives as Antibacterial Agents             |
| 033031A    | European Patent Convention | 06821006.1 | 11/24/2006 |            |            | Marked Bovine Viral Diarrhea Virus Vaccines                                                          |
| 033104A    | European Patent Convention | 06808929.1 | 9/25/2006  |            |            | Vaccines And Methods To Treat Canine Influenza                                                       |
| 033104A    | European Patent Convention | 11164166.8 | 4/28/2011  |            |            | Vaccines And Methods To Treat Canine Influenza                                                       |
| 033250A    | European Patent Convention | 07705530.9 | 1/15/2007  |            |            | Novel Glycolipid Adjuvant Compositions                                                               |
| 033250A    | European Patent Convention | 12165409.9 | 4/24/2012  |            |            | Novel Glycolipid Adjuvant Compositions                                                               |
| 033251A    | European Patent Convention | 07804880.8 | 8/30/2007  |            |            | Heat Treated Bacterins And Emulsion Vaccines Prepared From Such Heat Treated Bacterins               |
| 033251A    | European Patent Convention | 11173797.9 | 7/13/2011  |            |            | Heat Treated Bacterins And Emulsion Vaccines Prepared From Such Heat Treated Bacterins               |
| 033517A    | European Patent Convention | 07825750.8 | 11/23/2007 |            |            | Methods Of Vaccine Administration                                                                    |
| 033633A    | European Patent Convention | 08841451.1 | 10/15/2008 |            |            | Idarubicin For The Treatment Of Lymphoma In A Dog                                                    |
| 009576A    | Finland                    | 98920693.3 | 5/29/1998  | 0988310    | 10/1/2003  | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 009576A    | Finland                    | 1.20040008 | 5/10/2004  | 244        | 9/1/2009   | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 010278A    | Finland                    | 99309409.3 | 11/25/1999 | 1018557    | 11/9/2005  | An Infectious CDNA Clone Of North American Porcine Reproductive And Respiratory Syndrome (PRRS) Viru |
| 010298A    | Finland                    | 99310514.7 | 12/23/1999 | 1023904    | 12/7/2005  | Adjuvants For Use In Vaccines                                                                        |
| 010298A    | Finland                    | 05023118.2 | 10/24/2005 | 1616573    | 11/16/2011 | Adjuvants For Use In Vaccines                                                                        |
| 010299A    | Finland                    | 99309202.2 | 11/18/1999 | 1027895    | 2/20/2008  | Erysipelothrix Rhusiopathiae Antigens And Vaccine Compositions                                       |
| 010475A    | Finland                    | 99954277.2 | 11/9/1999  | 1131331    | 3/3/2004   | 13-membered Azalides And Their Use As Antibiotic Agents                                              |

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|------------|---------|------------|------------|------------|------------|------------------------------------------------------------------------------------------------------|
| 010610A    | Finland | 00979850.5 | 11/30/2000 | EP1250343  | 6/25/2003  | Azalide Antibiotic Compositions                                                                      |
| 010650A    | Finland | 00944154.4 | 7/24/2000  | 1200606    | 10/4/2006  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 011807A    | Finland | 02780923.5 | 5/24/2002  | 1404653    | 8/20/2008  | Triamide-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer |
| 011858A    | Finland | 02735755.7 | 6/7/2002   | 1474067    | 10/29/2008 | One Dose Vaccination Of Pigs With Mycoplasma Hyopneumoniae                                           |
| 023034A    | Finland | 03739390.7 | 1/31/2003  | 1476539    | 3/25/2009  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 023034A    | Finland | 09150098.3 | 1/6/2009   | 2050815    | 10/26/2011 | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 023064A    | Finland | 02781499.5 | 11/13/2002 | 1448234    | 9/3/2008   | Formulations Of Cephalosporin                                                                        |
| 025951A    | Finland | 04801973.1 | 7/26/2004  | 1651263    | 11/24/2010 | Safe Mutant Viral Vaccines                                                                           |
| 027946A    | Finland | 06795470.1 | 9/8/2006   | 1928858    | 7/22/2009  | Solid Salt Forms Of A Pyrrole Substituted 2-indolinone                                               |
| 032220A    | Finland | 05789769.6 | 9/23/2005  | 1799253    | 9/14/2011  | Canine Vaccines Against Bordetella Bronchiseptica                                                    |
| 009576A    | France  | 98920693.3 | 5/29/1998  | 0988310    | 10/1/2003  | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 009576A    | France  | 04C0013    | 5/4/2004   | 04C0013    | 10/21/2005 | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 010216A    | France  | 00925528.2 | 5/18/2000  | EP1181290  | 7/2/2003   | Polymorphs Of A Crystalline Azobicyclo (2.2.2) Octan-3-amine Citrate And Their Pharmaceutical Compos |
| 010278A    | France  | 99309409.3 | 11/25/1999 | 1018557    | 11/9/2005  | An Infectious CDNA Clone Of North American Porcine Reproductive And Respiratory Syndrome (PRRS) Viru |
| 010298A    | France  | 99310514.7 | 12/23/1999 | 1023904    | 12/7/2005  | Adjuvants For Use In Vaccines                                                                        |
| 010298A    | France  | 05023118.2 | 10/24/2005 | 1616573    | 11/16/2011 | Adjuvants For Use In Vaccines                                                                        |
| 010299A    | France  | 99309202.2 | 11/18/1999 | 1027895    | 2/20/2008  | Erysipelothrix Rhusiopathiae Antigens And Vaccine Compositions                                       |
| 010475A    | France  | 99954277.2 | 11/9/1999  | 1131331    | 3/3/2004   | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 010610A    | France  | 00979850.5 | 11/30/2000 | EP1250343  | 6/25/2003  | Azalide Antibiotic Compositions                                                                      |
| 010650A    | France  | 00944154.4 | 7/24/2000  | 1200606    | 10/4/2006  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 010761A    | France  | 08156884.2 | 5/26/2008  |            |            | Anti-IGE Vaccines                                                                                    |



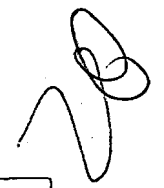
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| 010761A    | France  | 08156885.9        | 5/26/2008  |                |            | Anti-IGE Vaccines                                                                                    |
| 011807A    | France  | 02780923.5        | 5/24/2002  | 1404653        | 8/20/2008  | Triamide-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer |
| 011858A    | France  | 02735755.7        | 6/7/2002   | 1474067        | 10/29/2008 | One Dose Vaccination Of Pigs With Mycoplasma Hyopneumoniae                                           |
| 023034A    | France  | 03739390.7        | 1/31/2003  | 1476539        | 3/25/2009  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 023034A    | France  | 09150098.3        | 1/6/2009   | 2050815        | 10/26/2011 | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 023064A    | France  | 02781499.5        | 11/13/2002 | 1448234        | 9/3/2008   | Formulations Of Cephalosporin                                                                        |
| 023106A    | France  | 02783358.1        | 11/4/2002  | 1448535        | 3/16/2011  | Benzamide, Heteroarylamide And Reverse Amides                                                        |
| 023152A    | France  | 02257719.1        | 11/7/2002  | 1310493        | 8/17/2005  | N-alkyl-adamantyl Triazinyl Benzamide Derivatives                                                    |
| 025328A    | France  | 04722345.8        | 3/22/2004  |                |            | Microfluidized Oil-in-water Emulsions And Vaccine Compositions                                       |
| 025496A    | France  | 04702384.1        | 1/15/2004  | 1592444        | 5/14/2008  | Canine Vaccines Against Bordetella Bronchiseptica                                                    |
| 025588A    | France  | 04731975.1        | 5/10/2004  | 1626962        | 2/28/2007  | Benzamides Inhibitors Of The P2X7 Receptor                                                           |
| 025588A    | France  | 07103182.7        | 2/27/2007  | 1837330        | 10/24/2012 | Benzamides Inhibitors Of The P2X7 Receptor                                                           |
| 025951A    | France  | 04801973.1        | 7/26/2004  | 1651263        | 11/24/2010 | Safe Mutant Viral Vaccines                                                                           |
| 027946A    | France  | 06795470.1        | 9/8/2006   | 1928858        | 7/22/2009  | Solid Salt Forms Of A Pyrrole Substituted 2-indolinone                                               |
| 032220A    | France  | 05789769.6        | 9/23/2005  | 1799253        | 9/14/2011  | Canine Vaccines Against Bordetella Bronchiseptica                                                    |
| 032251A    | France  | 5718292.5         | 3/24/2005  |                |            | Microfluidized Oil-In-Water Emulsions And Vaccine Compositions                                       |
| 032702A    | France  | 06795148.3        | 7/17/2006  | 1912665        | 1/26/2011  | Methods Of Vaccine Administration, New Feline Caliciviruses, And Treatments For Immunizing Animals A |
| 033250A    | France  | 07705530.9        | 1/15/2007  |                |            | Novel Glycolipid Adjuvant Compositions                                                               |
| 009576A    | Germany | 98920693.3        | 5/29/1998  | 69818665.6     | 10/1/2003  | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 009576A    | Germany | 12 2004 000 018.0 | 5/4/2004   | 122004000 018. | 9/7/2010   | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 010216A    | Germany | 00925528.2        | 5/18/2000  | 60003679.0-08  | 7/2/2003   | Polymorphs Of A Crystalline Azobicyclo (2.2.2) Octan-3-amine Citrate And Their Pharmaceutical Compos |

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|------------|---------|------------|------------|----------------|------------|-------------------------------------------------------------------------------------------------------|
| 010278A    | Germany | 99309409.3 | 11/25/1999 | 69928209.8     | 11/9/2005  | An Infectious CDNA Clone Of North American Porcine Reproductive And Respiratory Syndrome (PRRS) Virus |
| 010298A    | Germany | 99310514.7 | 12/23/1999 | DE69928763.4   | 12/7/2005  | Adjuvants For Use In Vaccines                                                                         |
| 010298A    | Germany | 05023118.2 | 10/24/2005 | 69943869.1     | 11/16/2011 | Adjuvants For Use In Vaccines                                                                         |
| 010299A    | Germany | 99309202.2 | 11/18/1999 | 69938168.1-08  | 2/20/2008  | Erysipelothrix Rhusiopathiae Antigens And Vaccine Compositions                                        |
| 010475A    | Germany | 99954277.2 | 11/9/1999  | 69915336.0-08  | 3/3/2004   | 13-membered Azalides And Their Use As Antibiotic Agents                                               |
| 010610A    | Germany | 00979850.5 | 11/30/2000 | 60003586.7     | 6/25/2003  | Azalide Antibiotic Compositions                                                                       |
| 010650A    | Germany | 00944154.4 | 7/24/2000  | DE60031126.0   | 10/4/2006  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                                |
| 010761A    | Germany | 08156884.2 | 5/26/2008  | 60147222.5     |            | Anti-IGE Vaccines                                                                                     |
| 010761A    | Germany | 08156885.9 | 5/26/2008  | 60147223.3     |            | Anti-IGE Vaccines                                                                                     |
| 011807A    | Germany | 02780923.5 | 5/24/2002  | 60228447.3-08  | 8/20/2008  | Triamide-substituted Indoles, Benzofuranes And Benzothioephnes As Inhibitors Of Microsomal Triglycer  |
| 011858A    | Germany | 02735755.7 | 6/7/2002   | 60229666.8-08  | 10/29/2008 | One Dose Vaccination Of Pigs With Mycoplasma Hyopneumoniae                                            |
| 023034A    | Germany | 03739390.7 | 1/31/2003  | 60326824.2-08  | 3/25/2009  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                                |
| 023034A    | Germany | 09150098.3 | 1/6/2009   | 60338940.6     | 10/26/2011 | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                                |
| 023064A    | Germany | 02781499.5 | 11/13/2002 | 60228749.9-08  | 9/3/2008   | Formulations Of Cephalosporin                                                                         |
| 023106A    | Germany | 02783358.1 | 11/4/2002  | 60239485.6-08  | 3/16/2011  | Benzamide, Heteroarylamide And Reverse Amides                                                         |
| 023152A    | Germany | 02257719.1 | 11/7/2002  | 60205564.4-08  | 8/17/2005  | N-alkyl-adamantyl Triazinyl Benzamide Derivatives                                                     |
| 025328A    | Germany | 04722345.8 | 3/22/2004  |                |            | Microfluidized Oil-in-water Emulsions And Vaccine Compositions                                        |
| 025496A    | Germany | 04702384.1 | 1/15/2004  | 602004013723.5 | 5/14/2008  | Canine Vaccines Against Bordetella Bronchiseptica                                                     |
| 025588A    | Germany | 04731975.1 | 5/10/2004  | 602004005033.4 | 2/28/2007  | Benzamides Inhibitors Of The P2X7 Receptor                                                            |
| 025588A    | Germany | 07103182.7 | 2/27/2007  | 602004039824.1 | 10/24/2012 | Benzamides Inhibitors Of The P2X7 Receptor                                                            |
| 025951A    | Germany | 04801973.1 | 7/26/2004  | 602004030253.8 | 11/24/2010 | Safe Mutant Viral Vaccines                                                                            |
| 027946A    | Germany | 06795470.1 | 9/8/2006   | 602006008015.8 | 7/22/2009  | Solid Salt Forms Of A Pyrrole Substituted 2-indolinone                                                |
| 032220A    | Germany | 05789769.6 | 9/23/2005  | 602005030058.9 | 9/14/2011  | Canine Vaccines Against Bordetella Bronchiseptica                                                     |



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|------------|---------------|--------------|------------|----------------|------------|------------------------------------------------------------------------------------------------------|
| 032251A    | Germany       | 5718292.5    | 3/24/2005  |                |            | Microfluidized Oil-In-Water Emulsions And Vaccine Compositions                                       |
| 032702A    | Germany       | 06795148.3   | 7/17/2006  | 602006019878.7 | 1/26/2011  | Methods Of Vaccine Administration, New Feline Caliciviruses, And Treatments For Immunizing Animals A |
| 033250A    | Germany       | 07705530.9   | 1/15/2007  |                |            | Novel Glycolipid Adjuvant Compositions                                                               |
| 009576A    | Great Britain | 98920693.3   | 5/29/1998  | 0988310        | 10/1/2003  | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 009576A    | Great Britain | SPC/GB04/018 | 5/4/2004   | SPC/GB04/018   | 11/29/2004 | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 010216A    | Great Britain | 00925528.2   | 5/18/2000  | EP1181290      | 7/2/2003   | Polymorphs Of A Crystalline Azobicyclo (2.2.2) Octan-3-amine Citrate And Their Pharmaceutical Compos |
| 010278A    | Great Britain | 99309409.3   | 11/25/1999 | 1018557        | 11/9/2005  | An Infectious CDNA Clone Of North American Porcine Reproductive And Respiratory Syndrome (PRRS) Viru |
| 010298A    | Great Britain | 99310514.7   | 12/23/1999 | 1023904        | 12/7/2005  | Adjuvants For Use In Vaccines                                                                        |
| 010298A    | Great Britain | 05023118.2   | 10/24/2005 | 1616573        | 11/16/2011 | Adjuvants For Use In Vaccines                                                                        |
| 010299A    | Great Britain | 99309202.2   | 11/18/1999 | 1027895        | 2/20/2008  | Erysipelothrix Rhusiopathiae Antigens And Vaccine Compositions                                       |
| 010475A    | Great Britain | 99954277.2   | 11/9/1999  | 1131331        | 3/3/2004   | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 010610A    | Great Britain | 00979850.5   | 11/30/2000 | EP1250343      | 6/25/2003  | Azalide Antibiotic Compositions                                                                      |
| 010650A    | Great Britain | 00944154.4   | 7/24/2000  | 1200606        | 10/4/2006  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 011807A    | Great Britain | 02780923.5   | 5/24/2002  | 1404653        | 8/20/2008  | Triamide-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer |
| 011858A    | Great Britain | 02735755.7   | 6/7/2002   | 1474067        | 10/29/2008 | One Dose Vaccination Of Pigs With Mycoplasma Hyopneumoniae                                           |
| 023034A    | Great Britain | 03739390.7   | 1/31/2003  | 1476539        | 3/25/2009  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 023034A    | Great Britain | 09150098.3   | 1/6/2009   | 2050815        | 10/26/2011 | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 023064A    | Great Britain | 02781499.5   | 11/13/2002 | 1448234        | 9/3/2008   | Formulations Of Cephalosporin                                                                        |
| 023106A    | Great Britain | 02783358.1   | 11/4/2002  | 1448535        | 3/16/2011  | Benzamide, Heteroarylamine And Reverse Amides                                                        |
| 023152A    | Great Britain | 02257719.1   | 11/7/2002  | 1310493        | 8/17/2005  | N-alkyl-adamantyl Triazinyl Benzamide Derivatives                                                    |

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|------------|---------------|-------------|------------|-------------|------------|-------------------------------------------------------------------------------------------------------|
| 025496A    | Great Britain | 04702384.1  | 1/15/2004  | 1592444     | 5/14/2008  | Canine Vaccines Against <i>Bordetella Bronchiseptica</i>                                              |
| 025588A    | Great Britain | 04731975.1  | 5/10/2004  | 1626962     | 2/28/2007  | Benzamides Inhibitors Of The P2X7 Receptor                                                            |
| 025951A    | Great Britain | 04801973.1  | 7/26/2004  | 1651263     | 11/24/2010 | Safe Mutant Viral Vaccines                                                                            |
| 027946A    | Great Britain | 06795470.1  | 9/8/2006   | 1928858     | 7/22/2009  | Solid Salt Forms Of A Pyrrole Substituted 2-indolinone                                                |
| 032220A    | Great Britain | 05789769.6  | 9/23/2005  | 1799253     | 9/14/2011  | Canine Vaccines Against <i>Bordetella Bronchiseptica</i>                                              |
| 032702A    | Great Britain | 06795148.3  | 7/17/2006  | 1912665     | 1/26/2011  | Methods Of Vaccine Administration, New Feline Caliciviruses, And Treatments For Immunizing Animals A  |
| 009576A    | Greece        | 98920693.3  | 5/29/1998  | 0988310     | 10/1/2003  | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                       |
| 009576A    | Greece        | 20040800007 | 5/5/2005   | 20040800007 | 12/16/2004 | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                       |
| 010278A    | Greece        | 99309409.3  | 11/25/1999 | 1018557     | 11/9/2005  | An Infectious CDNA Clone Of North American Porcine Reproductive And Respiratory Syndrome (PRRS) Virus |
| 010298A    | Greece        | 99310514.7  | 12/23/1999 | 1023904     | 12/7/2005  | Adjuvants For Use In Vaccines                                                                         |
| 010298A    | Greece        | 05023118.2  | 10/24/2005 | 3076779     | 11/16/2011 | Adjuvants For Use In Vaccines                                                                         |
| 010299A    | Greece        | 99309202.2  | 11/18/1999 | 3064835     | 2/20/2008  | Erysipelothrix Rhusiopathiae Antigens And Vaccine Compositions                                        |
| 010475A    | Greece        | 99954277.2  | 11/9/1999  | 3048534     | 3/31/2004  | 13-membered Azalides And Their Use As Antibiotic Agents                                               |
| 010610A    | Greece        | 00979850.5  | 11/30/2000 | 3044785     | 7/31/2003  | Azalide Antibiotic Compositions                                                                       |
| 010650A    | Greece        | 00944154.4  | 7/24/2000  | 3059352     | 10/4/2006  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                                |
| 011807A    | Greece        | 02780923.5  | 5/24/2002  | 3066651     | 8/20/2008  | Triamide-substituted Indoles, Benzofuranes And Benzothiofenenes As Inhibitors Of Microsomal Triglycer |
| 011858A    | Greece        | 02735755.7  | 6/7/2002   | 3067654     | 10/29/2008 | One Dose Vaccination Of Pigs With Mycoplasma Hyopneumoniae                                            |
| 023034A    | Greece        | 03739390.7  | 1/31/2003  | 3068868     | 3/25/2009  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                                |
| 023034A    | Greece        | 09150098.3  | 1/6/2009   | 3076658     | 10/26/2011 | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                                |
| 023064A    | Greece        | 02781499.5  | 11/13/2002 | 3066723     | 9/3/2008   | Formulations Of Cephalosporin                                                                         |
| 025951A    | Greece        | 04801973.1  | 7/26/2004  | 3073753     | 11/24/2010 | Safe Mutant Viral Vaccines                                                                            |



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|------------|-----------|------------|------------|------------|------------|-------------------------------------------------------------------------------------------------------|
| 027946A    | Greece    | 06795470.1 | 9/8/2006   | 3069837    | 7/22/2009  | Solid Salt Forms Of A Pyrrole Substituted 2-indolinone                                                |
| 032220A    | Greece    | 05789769.6 | 9/23/2005  | 3076201    | 9/14/2011  | Canine Vaccines Against Bordetella Bronchiseptica                                                     |
| 009576A    | Hong Kong | 00107338.6 | 5/29/1998  | HK1028048  | 4/1/2005   | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                       |
| 009576A    | Hong Kong | 05101261.5 | 2/16/2005  | HK1068893  | 8/18/2006  | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                       |
| 009576A    | Hong Kong | 06108418.1 | 7/28/2006  | HK1088014  | 9/30/2010  | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                       |
| 009576A    | Hong Kong | 10108320.2 | 9/2/2010   |            |            | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                       |
| 010278A    | Hong Kong | 00108442.7 | 1/15/2001  | HK1029140  | 4/1/2005   | An Infectious CDNA Clone Of North American Porcine Reproductive And Respiratory Syndrome (PRRS) Virus |
| 010298A    | Hong Kong | 01101261.9 | 2/21/2001  | HK1030166  | 4/2/2004   | Adjuvants For Use In Vaccines                                                                         |
| 010298A    | Hong Kong | 04102622.8 | 4/15/2004  |            |            | Adjuvants For Use In Vaccines                                                                         |
| 010299A    | Hong Kong | 00108457.9 | 12/28/2000 | HK1029062  | 10/28/2005 | Erysipelothrix Rhusiopathiae Antigens And Vaccine Compositions                                        |
| 010475A    | Hong Kong | 09105503.0 | 6/19/2009  |            |            | 13-membered Azalides And Their Use As Antibiotic Agents                                               |
| 010650A    | Hong Kong | 02108367.6 | 11/19/2002 | HK1046710  | 5/13/2005  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                                |
| 010849A    | Hong Kong | 04108627.0 | 11/3/2004  | HK1065803  | 6/1/2007   | Process For Preparing 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin-a Derivatives"                 |
| 010849A    | Hong Kong | 03102597.0 | 4/25/2002  | HK1050370  | 5/13/2005  | Process For Preparing 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin-a Derivatives"                 |
| 011807A    | Hong Kong | 04106993.0 | 9/14/2004  | HK1064369  | 8/13/2010  | Triamide-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer  |
| 011807A    | Hong Kong | 07101214.1 | 2/1/2007   | HK1096665  | 4/1/2011   | Triamide-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer  |
| 011858A    | Hong Kong | 05100335.9 | 1/13/2005  |            |            | One Dose Vaccination Of Pigs With Mycoplasma Hyopneumoniae                                            |
| 011858A    | Hong Kong | 09111932.9 | 6/7/2002   |            |            | One Dose Vaccination Of Pigs With Mycoplasma Hyopneumoniae                                            |

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|------------|-----------|------------|------------|--------------|------------|-------------------------------------------------------------------------------------------------------|
| 023034A    | Hong Kong | 05106917.2 | 8/11/2005  | HK1074644    | 12/16/2011 | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                                |
| 023034A    | Hong Kong | 12109195   | 9/19/2012  |              |            | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                                |
| 023064A    | Hong Kong | 05104040.7 | 5/13/2005  | HK1071292    | 12/11/2009 | Formulations Of Cephalosporin                                                                         |
| 025246A    | Hong Kong | 05110344.7 | 11/18/2005 | HK1078457    | 1/25/2008  | Cattle Reproductive Disease Vaccines                                                                  |
| 025328A    | Hong Kong | 06106499.7 | 6/7/2006   |              |            | Microfluidized Oil-in-water Emulsions And Vaccine Compositions                                        |
| 025670A    | Hong Kong | 08105083.9 | 5/7/2008   |              |            | Antimicrobial Preservatives To Achieve Multi-dose Formulation Using B-cyclodextrins For Liquid Dosage |
| 027946A    | Hong Kong | 09102463.5 | 3/16/2009  |              |            | Solid Salt Forms Of A Pyrrole Substituted 2-indolinone                                                |
| 032220A    | Hong Kong | 08101940.1 | 2/22/2008  | HK1112839    | 7/8/2011   | Canine Vaccines Against Bordetella Bronchiseptica                                                     |
| 032251A    | Hong Kong | 07113918.5 | 12/20/2007 |              |            | Microfluidized Oil-In-Water Emulsions And Vaccine Compositions                                        |
| 032632A    | Hong Kong | 08106869.7 | 6/20/2008  |              |            | N Protein Mutants Of Porcine Reproductive And Respiratory Syndrome Virus                              |
| 033031A    | Hong Kong | 09101950.7 | 3/2/2009   | CN101355963B | 11/16/2012 | Marked Bovine Viral Diarrhea Virus Vaccines                                                           |
| 033250A    | Hong Kong | 09105528.1 | 6/19/2009  |              |            | Novel Glycolipid Adjuvant Compositions                                                                |
| 033251A    | Hong Kong | 09109330.1 | 10/8/2009  |              |            | Heat Treated Bacterins And Emulsion Vaccines Prepared From Such Heat Treated Bacterins                |
| 033517A    | Hong Kong | 10100622.4 | 1/21/2010  |              |            | Methods Of Vaccine Administration                                                                     |
| 009576A    | Hungary   | P0002209   | 5/29/1998  | 228005       | 7/9/2012   | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                       |
| 009576A    | Hungary   |            |            |              |            | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                       |
| 010475A    | Hungary   | P0104313   | 11/9/1999  |              |            | 13-membered Azalides And Their Use As Antibiotic Agents                                               |
| 010650A    | Hungary   | P0202487   | 7/24/2000  |              |            | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                                |
| 010849A    | Hungary   | P0201385   | 4/26/2002  |              |            | Process For Preparing 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin-a Derivatives"                 |
| 011807A    | Hungary   | P04 00348  | 5/24/2002  |              |            | Triamide-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer  |



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|------------|---------|----------------------|------------|------------|------------|-------------------------------------------------------------------------------------------------------|
| 011858A    | Hungary | P0400434             | 6/7/2002   |            |            | One Dose Vaccination Of Pigs With Mycoplasma Hyopneumoniae                                            |
| 023034A    | Hungary | 03739390.7           | 1/31/2003  | E005693    | 3/25/2009  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                                |
| 023034A    | Hungary | 09150098.3           | 1/6/2009   | E013313    | 10/26/2011 | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                                |
| 025951A    | Hungary | 04801973.1           | 7/26/2004  | E010264    | 11/24/2010 | Safe Mutant Viral Vaccines                                                                            |
| 027946A    | Hungary | 06795470.1           | 9/8/2006   | E006436    | 7/22/2009  | Solid Salt Forms Of A Pyrrole Substituted 2-indolinone                                                |
| 032220A    | Hungary | 05789769.6           | 9/23/2005  | E012570    | 9/14/2011  | Canine Vaccines Against Bordetella Bronchiseptica                                                     |
| 011807A    | Iceland | 6988                 | 5/24/2002  | 2603       | 4/15/2010  | Triamido-substituted Indoles, Benzo-furanes And Benzothiophenes As Inhibitors Of Microsomal Triglycer |
| 009576A    | India   | 1588/DEL/98          | 6/10/1998  | 246186     | 2/18/2011  | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                       |
| 009576A    | India   | 1338/DEL/2007        | 6/21/2007  |            |            | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                       |
| 010475A    | India   | 802/BOM/1999         | 11/17/1999 | 205154     | 3/15/2007  | 13-membered Azalides And Their Use As Antibiotic Agents                                               |
| 010475A    | India   | 2064/MUM/2006        | 12/13/2006 | 244880     | 12/23/2010 | 13-membered Azalides And Their Use As Antibiotic Agents                                               |
| 010650A    | India   | IN/PCT/200200132/MUM | 7/24/2000  | 209120     | 8/21/2007  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                                |
| 010849A    | India   | 357/MUM/2002         | 4/18/2002  | 216590     | 3/17/2008  | Process For Preparing 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin-a Derivatives"                 |
| 010849A    | India   | 179/MUM/2008         | 6/3/2008   | 251584     | 3/26/2012  | Process For Preparing 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin-a Derivatives"                 |
| 011858A    | India   | 63/MUMNP/2004        | 6/7/2002   | 219593     | 5/9/2008   | One Dose Vaccination Of Pigs With Mycoplasma Hyopneumoniae                                            |
| 023034A    | India   | 1882/DELNP/2004      | 1/31/2003  | 228492     | 2/5/2009   | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                                |
| 023034A    | India   | 6877/DELNP/2008      | 8/11/2008  |            |            | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                                |
| 023064A    | India   | 01053/DELNP/2004     | 11/13/2002 | 239997     | 4/21/2010  | Formulations Of Cephalosporin                                                                         |
| 025246A    | India   | 391/DELNP/2005       | 8/14/2003  | 243935     | 11/11/2010 | Cattle Reproductive Disease Vaccines                                                                  |
| 025328A    | India   | 3847/DELNP/2005      | 3/22/2004  | 239704     | 3/30/2010  | Microfluidized Oil-in-water Emulsions And Vaccine Compositions                                        |

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|------------|-----------|-----------------|------------|------------|------------|------------------------------------------------------------------------------------------------------|
| 025328A    | India     | 1340/DELNP/2010 | 2/25/2010  |            |            | Microfluidized Oil-in-water Emulsions And Vaccine Compositions                                       |
| 025951A    | India     | 342/DELNP/2006  | 7/26/2004  | 239729     | 3/30/2010  | Safe Mutant Viral Vaccines                                                                           |
| 032220A    | India     | 3134/DELNP/2007 | 9/23/2005  | 250292     | 12/21/2011 | Canine Vaccines Against Bordetella Bronchiseptica                                                    |
| 032251A    | India     | 5691/DELNP/2006 | 3/24/2005  | 249232     | 10/12/2011 | Microfluidized Oil-In-Water Emulsions And Vaccine Compositions                                       |
| 032632A    | India     | 5715/DELNP/2007 | 2/13/2006  | 248619     | 7/28/2011  | N Protein Mutants Of Porcine Reproductive And Respiratory Syndrome Virus                             |
| 033031A    | India     | 3899/DELNP/2008 | 11/24/2006 |            |            | Marked Bovine Viral Diarrhea Virus Vaccines                                                          |
| 033250A    | India     | 5599/DELNP/2008 | 1/15/2007  |            |            | Novel Glycolipid Adjuvant Compositions                                                               |
| 033251A    | India     | 1112/DELNP/2009 | 8/30/2007  |            |            | Heat Treated Bacterins And Emulsion Vaccines Prepared From Such Heat Treated Bacterins               |
| 023034A    | Indonesia | W-00200401710   | 1/31/2003  | P0024463   | 10/30/2009 | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 023064A    | Indonesia | W-00200401112   | 11/13/2002 | IDP0025653 | 5/10/2010  | Formulations Of Cephalosporin                                                                        |
| 009576A    | Ireland   | 98920693.3      | 5/29/1998  | 0988310    | 10/1/2003  | 4-substituted-9-deoxo-9a-aza-9a-homocrythromycin A Derivatives"                                      |
| 009576A    | Ireland   | 2004/07         | 5/10/2004  | 1768/92    | 5/4/2005   | 4-substituted-9-deoxo-9a-aza-9a-homocrythromycin A Derivatives"                                      |
| 010216A    | Ireland   | 00925528.2      | 5/18/2000  | EP1181290  | 7/2/2003   | Polymorphs Of A Crystalline Azobicyclo(2.2.2) Octan-3-amine Citrate And Their Pharmaceutical Compos  |
| 010278A    | Ireland   | 99309409.3      | 11/25/1999 | 1018557    | 11/9/2005  | An Infectious CDNA Clone Of North American Porcine Reproductive And Respiratory Syndrome (PRRS) Viru |
| 010298A    | Ireland   | 99310514.7      | 12/23/1999 | 1023904    | 12/7/2005  | Adjuvants For Use In Vaccines                                                                        |
| 010298A    | Ireland   | 05023118.2      | 10/24/2005 | 1616573    | 11/16/2011 | Adjuvants For Use In Vaccines                                                                        |
| 010299A    | Ireland   | 99309202.2      | 11/18/1999 | 1027895    | 2/20/2008  | Erysipelothrix Rhusiopathiae Antigens And Vaccine Compositions                                       |
| 010475A    | Ireland   | 99954277.2      | 11/9/1999  | 1131331    | 3/3/2004   | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 010610A    | Ireland   | 00979850.5      | 11/30/2000 | EP1250343  | 6/25/2003  | Azalide Antibiotic Compositions                                                                      |
| 010650A    | Ireland   | 00944154.4      | 7/24/2000  | 1200606    | 10/4/2006  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |

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| Docket No. | Country | App. No.   | App. Date  | Patent No. | Grant Date | Title                                                                                                |
|------------|---------|------------|------------|------------|------------|------------------------------------------------------------------------------------------------------|
| 011807A    | Ireland | 02780923.5 | 5/24/2002  | 1404653    | 8/20/2008  | Triamide-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer |
| 011858A    | Ireland | 02735755.7 | 6/7/2002   | 1474067    | 10/29/2008 | One Dose Vaccination Of Pigs With Mycoplasma Hyopneumoniae                                           |
| 023034A    | Ireland | 03739390.7 | 1/31/2003  | 1476539    | 3/25/2009  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 023034A    | Ireland | 09150098.3 | 1/6/2009   | 2050815    | 10/26/2011 | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 023064A    | Ireland | 02781499.5 | 11/13/2002 | 1448234    | 9/3/2008   | Formulations Of Cephalosporin                                                                        |
| 023106A    | Ireland | 02783358.1 | 11/4/2002  | 1448535    | 3/16/2011  | Benzamide, Heteroaryl amide And Reverse Amides                                                       |
| 023152A    | Ireland | 02257719.1 | 11/7/2002  | 1310493    | 8/17/2005  | N-alkyl-adamantyl Triazinyl Benzamide Derivatives                                                    |
| 025496A    | Ireland | 04702384.1 | 1/15/2004  | 1592444    | 5/14/2008  | Canine Vaccines Against Bordetella Bronchiseptica                                                    |
| 025588A    | Ireland | 04731975.1 | 5/10/2004  | 1626962    | 2/28/2007  | Benzamides Inhibitors Of The P2X7 Receptor                                                           |
| 025951A    | Ireland | 04801973.1 | 7/26/2004  | 1651263    | 11/24/2010 | Safe Mutant Viral Vaccines                                                                           |
| 027946A    | Ireland | 06795470.1 | 9/8/2006   | 1928858    | 7/22/2009  | Solid Salt Forms Of A Pyrrole Substituted 2-indolinone                                               |
| 032220A    | Ireland | 05789769.6 | 9/23/2005  | 1799253    | 9/14/2011  | Canine Vaccines Against Bordetella Bronchiseptica                                                    |
| 032702A    | Ireland | 06795148.3 | 7/17/2006  | 1912665    | 1/26/2011  | Methods Of Vaccine Administration, New Feline Caliciviruses, And Treatments For Immunizing Animals A |
| 009576A    | Israel  | 132809     | 5/29/1998  | 132809     | 6/13/2006  | 4-substituted-9-deoxy-9a-aza-9a-homocrythromycin A Derivatives"                                      |
| 010475A    | Israel  | 142631     | 11/9/1999  | 142631     | 9/1/2010   | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 010475A    | Israel  | 189430     | 2/11/2008  | 189430     | 9/1/2010   | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 010650A    | Israel  | 147563     | 7/24/2000  | 147563     | 9/16/2009  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 010849A    | Israel  | 149226     | 4/19/2002  | 149226     | 9/6/2008   | Process For Preparing 4-substituted-9-deoxy-9a-aza-9a-homocrythromycin-a Derivatives"                |
| 010849A    | Israel  | 182418     | 4/10/2007  |            |            | Process For Preparing 4-substituted-9-deoxy-9a-aza-9a-homocrythromycin-a Derivatives"                |
| 023034A    | Israel  | 162866     | 1/31/2003  | 162866     | 2/19/2010  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |

| Docket No. | Country | App. No.   | App. Date  | Patent No.   | Grant Date | Title                                                                                                |
|------------|---------|------------|------------|--------------|------------|------------------------------------------------------------------------------------------------------|
| 023034A    | Israel  | 192371     | 6/22/2008  | 192371       | 3/1/2011   | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 023064A    | Israel  | 161851     | 11/13/2002 | 161851       | 3/1/2012   | Formulations Of Cephalosporin                                                                        |
| 009576A    | Italy   | 98920693.3 | 5/29/1998  | 0988310      | 10/1/2003  | 4-substituted-9-deoxo-9a-aza-9a-homocerythromycin A Derivatives"                                     |
| 009576A    | Italy   | 853615     | 5/10/2004  | UB2004CCP853 | 7/20/2005  | 4-substituted-9-deoxo-9a-aza-9a-homocerythromycin A Derivatives"                                     |
| 010216A    | Italy   | 00925528.2 | 5/18/2000  | EP1181290    | 7/2/2003   | Polymorphs Of A Crystalline Azobicyclo (2.2.2) Octan-3-amine Citrate And Their Pharmaceutical Compos |
| 010278A    | Italy   | 99309409.3 | 11/25/1999 | 1018557      | 11/9/2005  | An Infectious CDNA Clone Of North American Porcine Reproductive And Respiratory Syndrome (PRRS) Viru |
| 010298A    | Italy   | 99310514.7 | 12/23/1999 | 1023904      | 12/7/2005  | Adjuvants For Use In Vaccines                                                                        |
| 010298A    | Italy   | 05023118.2 | 10/24/2005 | 1616573      | 11/16/2011 | Adjuvants For Use In Vaccines                                                                        |
| 010299A    | Italy   | 99309202.2 | 11/18/1999 | 1027895      | 2/20/2008  | Erysipelothrix Rhusiopathiae Antigens And Vaccine Compositions                                       |
| 010475A    | Italy   | 99954277.2 | 11/9/1999  | 1131331      | 3/3/2004   | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 010610A    | Italy   | 00979850.5 | 11/30/2000 | EP1250343    | 6/25/2003  | Azalide Antibiotic Compositions                                                                      |
| 010650A    | Italy   | 00944154.4 | 7/24/2000  | 1200606      | 10/4/2006  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 011807A    | Italy   | 02780923.5 | 5/24/2002  | 1404653      | 8/20/2008  | Triamide-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer |
| 011858A    | Italy   | 02735755.7 | 6/7/2002   | 1474067      | 10/29/2008 | One Dose Vaccination Of Pigs With Mycoplasma Hyopneumoniae                                           |
| 023034A    | Italy   | 03739390.7 | 1/31/2003  | 1476539      | 3/25/2009  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 023034A    | Italy   | 09150098.3 | 1/6/2009   | 2050815      | 10/26/2011 | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 023064A    | Italy   | 02781499.5 | 11/13/2002 | 1448234      | 9/3/2008   | Formulations Of Cephalosporin                                                                        |
| 023106A    | Italy   | 02783358.1 | 11/4/2002  | 1448535      | 3/16/2011  | Benzamide, Heteroaryl amide And Reverse Amides                                                       |
| 023152A    | Italy   | 02257719.1 | 11/7/2002  | 1310493      | 8/17/2005  | N-alkyl-adamantyl Triazinyl Benzamide Derivatives                                                    |
| 025496A    | Italy   | 04702384.1 | 1/15/2004  | 1592444      | 5/14/2008  | Canine Vaccines Against Bordetella Bronchiseptica                                                    |
| 025588A    | Italy   | 04731975.1 | 5/10/2004  | 1626962      | 2/28/2007  | Benzamides Inhibitors Of The P2X7 Receptor                                                           |

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|------------|---------|-------------|------------|---------------|------------|------------------------------------------------------------------------------------------------------|
| 025951A    | Italy   | 04801973.1  | 7/26/2004  | 19510 BE/2011 | 11/24/2010 | Safe Mutant Viral Vaccines                                                                           |
| 027946A    | Italy   | 06795470.1  | 9/8/2006   | 1928858       | 7/22/2009  | Solid Salt Forms Of A Pyrrole Substituted 2-indolinone                                               |
| 032220A    | Italy   | 05789769.6  | 9/23/2005  | 1799253       | 9/14/2011  | Canine Vaccines Against Bordetella Bronchiseptica                                                    |
| 032702A    | Italy   | 06795148.3  | 7/17/2006  | 1912665       | 1/26/2011  | Methods Of Vaccine Administration, New Feline Caliciviruses, And Treatments For Immunizing Animals A |
| 009576A    | Japan   | 501935/99   | 5/29/1998  | 3315704       | 6/7/2002   | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 010216A    | Japan   | 2001-500629 | 5/18/2000  | 3830816       | 7/21/2006  | Polymorphs Of A Crystalline Azobicyclo (2.2.2) Octan-3-amine Citrate And Their Pharmaceutical Compos |
| 010216A    | Japan   | 2011-700131 | 6/3/2011   | 3830816       | 7/4/2012   | Polymorphs Of A Crystalline Azobicyclo (2.2.2) Octan-3-amine Citrate And Their Pharmaceutical Compos |
| 010216A    | Japan   | 2011-700132 | 6/3/2011   | 3830816       | 7/4/2012   | Polymorphs Of A Crystalline Azobicyclo (2.2.2) Octan-3-amine Citrate And Their Pharmaceutical Compos |
| 010216A    | Japan   | 2011-700159 | 7/14/2011  | 3830816       | 7/4/2012   | Polymorphs Of A Crystalline Azobicyclo (2.2.2) Octan-3-amine Citrate And Their Pharmaceutical Compos |
| 010216A    | Japan   | 2011-700160 | 7/14/2011  | 3830816       | 7/4/2012   | Polymorphs Of A Crystalline Azobicyclo (2.2.2) Octan-3-amine Citrate And Their Pharmaceutical Compos |
| 010216A    | Japan   | 2011-700161 | 7/14/2011  | 3830816       | 7/4/2012   | Polymorphs Of A Crystalline Azobicyclo (2.2.2) Octan-3-amine Citrate And Their Pharmaceutical Compos |
| 010278A    | Japan   | 11-362186   | 12/21/1999 | 4113642       | 4/18/2008  | An Infectious CDNA Clone Of North American Porcine Reproductive And Respiratory Syndrome (PRRS) Viru |
| 010278A    | Japan   | 2000-372087 | 12/6/2000  | 4159242       | 7/25/2008  | An Infectious CDNA Clone Of North American Porcine Reproductive And Respiratory Syndrome (PRRS) Viru |
| 010278A    | Japan   | 2000-372096 | 12/6/2000  | 4130729       | 5/30/2008  | An Infectious CDNA Clone Of North American Porcine Reproductive And Respiratory Syndrome (PRRS) Viru |
| 010278A    | Japan   | 2008-037593 | 2/19/2008  | 4335287       | 7/3/2009   | An Infectious CDNA Clone Of North American Porcine Reproductive And Respiratory Syndrome (PRRS) Viru |

| Docket No. | Country | App. No.    | App. Date  | Patent No. | Grant Date | Title                                                                                                |
|------------|---------|-------------|------------|------------|------------|------------------------------------------------------------------------------------------------------|
| 010298A    | Japan   | 2003-311701 | 9/3/2003   |            |            | Adjuvants For Use In Vaccines                                                                        |
| 010298A    | Japan   | 2004-284688 | 9/29/2004  | 4785365    | 7/22/2011  | Adjuvants For Use In Vaccines                                                                        |
| 010299A    | Japan   | 2000-017930 | 1/24/2000  | 3535436    | 3/19/2004  | Erysipelothrix Rhusiopathiae Antigens And Vaccine Compositions                                       |
| 010299A    | Japan   | 2007-033458 | 2/14/2007  | 4714167    | 4/1/2011   | Erysipelothrix Rhusiopathiae Antigens And Vaccine Compositions                                       |
| 010299A    | Japan   | 2007-700083 | 7/1/2007   | 3535436    | 2/14/2008  | Erysipelothrix Rhusiopathiae Antigens And Vaccine Compositions                                       |
| 010475A    | Japan   | 2000-583925 | 11/9/1999  | 3842973    | 8/18/2006  | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 010610A    | Japan   | 2001-561016 | 11/30/2000 | 3893059    | 12/15/2006 | Azalide Antibiotic Compositions                                                                      |
| 010650A    | Japan   | 2001-516908 | 7/24/2000  | 3884651    | 11/24/2006 | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 010761A    | Japan   | 2004-338711 | 11/24/2004 |            |            | Anti-IGE Vaccines                                                                                    |
| 010761A    | Japan   | 2012-080895 | 3/30/2012  |            |            | Anti-IGE Vaccines                                                                                    |
| 010761A    | Japan   | 2004-244935 | 8/25/2004  |            |            | Anti-IGE Vaccines                                                                                    |
| 010849A    | Japan   | 2002-122346 | 4/24/2002  | 4100955    | 3/28/2008  | Process For Preparing 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin-a Derivatives"                |
| 011807A    | Japan   | 2003-508914 | 5/24/2002  | 4139325    | 6/13/2008  | Triamide-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer |
| 011807A    | Japan   | 2010-700064 | 4/7/2010   | 4139325    | 6/1/2010   | Triamide-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer |
| 011858A    | Japan   | 2003-509957 | 6/7/2002   |            |            | One Dose Vaccination Of Pigs With Mycoplasma Hyopneumoniae                                           |
| 023064A    | Japan   | 2003-546936 | 11/13/2002 | 4689959    | 2/25/2011  | Formulations Of Cephalosporin                                                                        |
| 023106A    | Japan   | 2003-544027 | 11/4/2002  | 4365218    | 8/28/2009  | Benzamide, Heteroarylarnide And Reverse Amides                                                       |
| 023152A    | Japan   | 2002-327661 | 11/12/2002 | 4001542    | 8/24/2007  | N-alkyl-adamantyl Triazinyl Benzamide Derivatives                                                    |
| 025246A    | Japan   | 2011-275303 | 12/16/2011 |            |            | Cattle Reproductive Disease Vaccines                                                                 |
| 025353A    | Japan   | 2006-542034 | 11/22/2004 | 4602347    | 10/8/2010  | In Ovo Vaccination Of Campylobacter In Avian Species                                                 |
| 025496A    | Japan   | 2006-342944 | 12/20/2006 |            |            | Canine Vaccines Against Bordetella Bronchiseptica                                                    |
| 025496A    | Japan   | 2011-31652  | 2/17/2011  |            |            | Canine Vaccines Against Bordetella Bronchiseptica                                                    |
| 025588A    | Japan   | 2006-506618 | 5/10/2004  | 4731468    | 4/28/2011  | Benzamides Inhibitors Of The P2X7 Receptor                                                           |



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|------------|------------|-------------|------------|------------|------------|-------------------------------------------------------------------------------------------------------|
| 025670A    | Japan      | 2006-550330 | 1/17/2005  | 5021318    | 6/22/2012  | Antimicrobial Preservatives To Achieve Multi-dose Formulation Using B-cyclodextrins For Liquid Dosage |
| 025951A    | Japan      | 2006-521967 | 7/26/2004  | 4662931    | 1/14/2011  | Safe Mutant Viral Vaccines                                                                            |
| 027946A    | Japan      | 2006-250347 | 9/15/2006  | 4519114    | 5/28/2010  | Solid Salt Forms Of A Pyrrole Substituted 2-indolinone                                                |
| 032220A    | Japan      | 2007-535271 | 9/23/2005  | 4163245    | 8/1/2008   | Canine Vaccines Against Bordetella Bronchiseptica                                                     |
| 032220A    | Japan      | 2008-105332 | 9/23/2005  |            |            | Canine Vaccines Against Bordetella Bronchiseptica                                                     |
| 032251A    | Japan      | 2007-506850 | 3/24/2005  |            |            | Microfluidized Oil-In-Water Emulsions And Vaccine Compositions                                        |
| 032251A    | Japan      | 2011-89018  | 4/13/2011  |            |            | Microfluidized Oil-In-Water Emulsions And Vaccine Compositions                                        |
| 032632A    | Japan      | 2007-556679 | 2/13/2006  | 4320357    | 6/5/2009   | N Protein Mutants Of Porcine Reproductive And Respiratory Syndrome Virus                              |
| 032702A    | Japan      | 2008-523479 | 7/17/2006  |            |            | Methods Of Vaccine Administration, New Feline Caliciviruses, And Treatments For Immunizing Animals A  |
| 032702A    | Japan      | 2012-137725 | 6/19/2012  |            |            | Methods Of Vaccine Administration, New Feline Caliciviruses, And Treatments For Immunizing Animals A  |
| 032983A    | Japan      | 2008-546665 | 12/11/2006 |            |            | 8-Pyrazinyl-S-Spiropyrimidinetrione-oxazinoquinoline Derivatives as Antibacterial Agents              |
| 033031A    | Japan      | 2008-543931 | 11/24/2006 |            |            | Marked Bovine Viral Diarrhea Virus Vaccines                                                           |
| 033104A    | Japan      | 2008-534101 | 9/25/2006  | 4667507    | 1/21/2011  | Vaccines And Methods To Treat Canine Influenza                                                        |
| 033250A    | Japan      | 2008-551904 | 1/15/2007  |            |            | Novel Glycolipid Adjuvant Compositions                                                                |
| 033251A    | Japan      | 2009-527907 | 8/30/2007  |            |            | Heat Treated Bacterins And Emulsion Vaccines Prepared From Such Heat Treated Bacterins                |
| 033517A    | Japan      | 2007-326969 | 12/19/2007 |            |            | Methods Of Vaccine Administration                                                                     |
| 009576A    | Kazakhstan | EA199901015 | 5/29/1998  | EA002441   | 4/25/2002  | 4-substituted-9-deoxo-9a-aza-9a-homocrythromycin A Derivatives"                                       |
| 010475A    | Kazakhstan | EA200100416 | 11/9/1999  | 005156     | 12/30/2004 | 13-membered Azalides And Their Use As Antibiotic Agents                                               |
| 010475A    | Kazakhstan | 200400701   | 6/21/2004  | 009729     | 2/28/2008  | 13-membered Azalides And Their Use As Antibiotic Agents                                               |

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|------------|-------------|-----------------|------------|--------------|------------|-------------------------------------------------------------------------------------------------------|
| 009576A    | Korea South | 10-1999-7011642 | 5/29/1998  | 396168       | 8/18/2003  | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                       |
| 009576A    | Korea South | 10-2006-0069700 | 7/25/2006  | 10-396168    | 12/7/2006  | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                       |
| 010475A    | Korea South | 2001-7006301    | 11/9/1999  | 477774       | 3/10/2005  | 13-membered Azalides And Their Use As Antibiotic Agents                                               |
| 010650A    | Korea South | 2002-7001807    | 7/24/2000  | 489856       | 5/6/2005   | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                                |
| 010849A    | Korea South | 10-2002-22902   | 4/26/2002  | 10-0474225   | 2/22/2005  | Process For Preparing 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin-a Derivatives"                 |
| 011807A    | Korea South | 2003-7017167    | 5/24/2002  | 10-0575919   | 4/25/2006  | Triamide-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer  |
| 011807A    | Korea South | 2005-7025027    | 12/26/2005 | 10-0575944   | 4/25/2006  | Triamide-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer  |
| 011807A    | Korea South | 10-2009-004441  | 5/21/2009  | 575919       | 6/2/2009   | Triamide-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer  |
| 011858A    | Korea South | 10-2004-7000044 | 6/7/2002   |              |            | One Dose Vaccination Of Pigs With Mycoplasma Hyopneumoniae                                            |
| 023034A    | Korea South | 2004-7012437    | 1/31/2003  | 718378       | 5/8/2007   | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                                |
| 023064A    | Korea South | 2004-7008097    | 11/13/2002 | 10-0621291   | 8/30/2006  | Formulations Of Cephalosporin                                                                         |
| 023064A    | Korea South | 2010-0008129    | 1/28/2010  | 2010-0008129 | 7/30/2010  | Formulations Of Cephalosporin                                                                         |
| 025328A    | Korea South | 2005-7018729    | 3/22/2004  | 10-0720213   | 5/14/2007  | Microfluidized Oil-in-water Emulsions And Vaccine Compositions                                        |
| 025670A    | Korea South | 10-2006-7015283 | 1/17/2005  | 834232       | 5/26/2008  | Antimicrobial Preservatives To Achieve Multi-dose Formulation Using B-cyclodextrins For Liquid Dosage |
| 025951A    | Korea South | 10-2006-7002112 | 7/26/2004  | 10-0810820   | 2/28/2008  | Safe Mutant Viral Vaccines                                                                            |
| 027946A    | Korea South | 10-2008-7006545 | 9/8/2006   | 10-1050906   | 7/14/2011  | Solid Salt Forms Of A Pyrrole Substituted 2-indolinone                                                |
| 032220A    | Korea South | 10-2012-7000574 | 1/9/2012   |              |            | Canine Vaccines Against Bordetella Bronchiseptica                                                     |
| 032251A    | Korea South | 2008-7031330    | 12/30/2008 | 10-1143060   | 4/27/2012  | Microfluidized Oil-In-Water Emulsions And Vaccine Compositions                                        |

| Docket No. | Country     | App. No.         | App. Date  | Patent No.     | Grant Date | Title                                                                                                |
|------------|-------------|------------------|------------|----------------|------------|------------------------------------------------------------------------------------------------------|
| 032632A    | Korea South | 10-2007-7019454  | 2/13/2006  | 10-0996105     | 11/16/2010 | N Protein Mutants Of Porcine Reproductive And Respiratory Syndrome Virus                             |
| 033031A    | Korea South | 10-2008-7013580  | 11/24/2006 | 10-1045165     | 6/22/2011  | Marked Bovine Viral Diarrhea Virus Vaccines                                                          |
| 033031A    | Korea South | 10-2011-7006546  | 3/22/2011  | 10-1097547     | 12/15/2011 | Marked Bovine Viral Diarrhea Virus Vaccines                                                          |
| 033250A    | Korea South | 2008-7018207     | 1/15/2007  | 10-1202553     | 11/12/2012 | Novel Glycolipid Adjuvant Compositions                                                               |
| 033250A    | Korea South | 2011-7028574     | 11/29/2011 |                |            | Novel Glycolipid Adjuvant Compositions                                                               |
| 033251A    | Korea South | 10-2009-7004968  | 8/30/2007  |                |            | Heat Treated Bacterins And Emulsion Vaccines Prepared From Such Heat Treated Bacterins               |
| 033517A    | Korea South | 2009-7015650     | 11/23/2007 | 10-1099883     | 12/21/2011 | Methods Of Vaccine Administration                                                                    |
| 009576A    | Kosovo      | 394              | 10/16/2008 | 048            | 8/23/2010  | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 010475A    | Kosovo      | 413              | 10/16/2008 | 239            | 1/12/2012  | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 011807A    | Kosovo      | 382              | 10/16/2008 | 246            | 1/12/2012  | Triamide-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer |
| 023034A    | Kosovo      | 388              | 10/16/2008 | 277            | 1/30/2012  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 025951A    | Kosovo      | 410              | 10/16/2008 | 279            | 1/19/2012  | Safe Mutant Viral Vaccines                                                                           |
| 032220A    | Kosovo      | P/2011/115       | 2/3/2012   |                |            | Canine Vaccines Against Bordetella Bronchiseptica                                                    |
| 033250A    | Kosovo      | 048              | 9/16/2008  |                |            | Novel Glycolipid Adjuvant Compositions                                                               |
| 033251A    | Kosovo      | 307              | 8/30/2007  |                |            | Heat Treated Bacterins And Emulsion Vaccines Prepared From Such Heat Treated Bacterins               |
| 009576A    | Kyrgyzstan  | EA199901015      | 5/29/1998  | EA002441       | 4/25/2002  | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 010475A    | Kyrgyzstan  | EA200100416      | 11/9/1999  | 005156         | 12/30/2004 | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 010475A    | Kyrgyzstan  | 200400701        | 6/21/2004  | 009729         | 2/28/2008  | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 009576A    | Latvia      | 98920693.3       | 5/29/1998  | 0988310        | 10/1/2003  | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 009576A    | Latvia      | C/LV 2004/0015/Z | 10/18/2004 | C/LV 2004/0015 | 10/25/2004 | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 010475A    | Latvia      | 99954277.2       | 11/9/1999  | 1131331        | 3/3/2004   | 13-membered Azalides And Their Use As Antibiotic Agents                                              |

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|------------|------------|------------|------------|------------|------------|------------------------------------------------------------------------------------------------------|
| 011807A    | Latvia     | 02780923.5 | 5/24/2002  | 1404653    | 8/20/2008  | Triamido-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer |
| 009576A    | Lithuania  | PA2004007  | 10/13/2004 |            |            | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 009576A    | Lithuania  | 98920693.3 | 5/29/1998  | 0988310    | 10/1/2003  | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 010475A    | Lithuania  | 99954277.2 | 11/9/1999  | 1131331    | 3/3/2004   | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 011807A    | Lithuania  | 02780923.5 | 5/24/2002  | 1404653    | 8/20/2008  | Triamido-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer |
| 032220A    | Lithuania  | 05789769.6 | 9/23/2005  | 1799253    | 9/14/2011  | Canine Vaccines Against Bordetella Bronchiseptica                                                    |
| 009576A    | Luxembourg | 98920693.3 | 5/29/1998  | 0988310    | 10/1/2003  | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 009576A    | Luxembourg | 91 076     | 5/5/2004   | 91 076     | 7/5/2004   | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 010278A    | Luxembourg | 99309409.3 | 11/25/1999 | 1018557    | 11/9/2005  | An Infectious CDNA Clone Of North American Porcine Reproductive And Respiratory Syndrome (PRRS) Viru |
| 010298A    | Luxembourg | 99310514.7 | 12/23/1999 | 1023904    | 12/7/2005  | Adjuvants For Use In Vaccines                                                                        |
| 010298A    | Luxembourg | 05023118.2 | 10/24/2005 | 1616573    | 11/16/2011 | Adjuvants For Use In Vaccines                                                                        |
| 010299A    | Luxembourg | 99309202.2 | 11/18/1999 | 1027895    | 2/20/2008  | Erysipelothrix Rhusiopathiae Antigens And Vaccine Compositions                                       |
| 010475A    | Luxembourg | 99954277.2 | 11/9/1999  | 1131331    | 3/3/2004   | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 010610A    | Luxembourg | 00979850.5 | 11/30/2000 | EP1250343  | 6/25/2003  | Azalide Antibiotic Compositions                                                                      |
| 010650A    | Luxembourg | 00944154.4 | 7/24/2000  | 1200606    | 10/4/2006  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 011807A    | Luxembourg | 02780923.5 | 5/24/2002  | 1404653    | 8/20/2008  | Triamido-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer |
| 011858A    | Luxembourg | 02735755.7 | 6/7/2002   | 1474067    | 10/29/2008 | One Dose Vaccination Of Pigs With Mycoplasma Hyopneumoniae                                           |
| 023034A    | Luxembourg | 03739390.7 | 1/31/2003  | 1476539    | 3/25/2009  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |

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|------------|------------|-------------------|------------|------------|------------|------------------------------------------------------------------------------------------------------|
| 023034A    | Luxembourg | 09150098.3        | 1/6/2009   | 2050815    | 10/26/2011 | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 023064A    | Luxembourg | 02781499.5        | 11/13/2002 | 1448234    | 9/3/2008   | Formulations Of Cephalosporin                                                                        |
| 025951A    | Luxembourg | 04801973.1        | 7/26/2004  | 1651263    | 11/24/2010 | Safe Mutant Viral Vaccines                                                                           |
| 027946A    | Luxembourg | 06795470.1        | 9/8/2006   | 1928858    | 7/22/2009  | Solid Salt Forms Of A Pyrrole Substituted 2-indolinone                                               |
| 032220A    | Luxembourg | 05789769.6        | 9/23/2005  | 1799253    | 9/14/2011  | Canine Vaccines Against Bordetella Bronchiseptica                                                    |
| 009576A    | Macedonia  | P-2003/318        | 5/29/1998  | 901228     | 10/1/2003  | 4-substituted-9-deoxo-9a-aza-9a-homocerythromycin A Derivatives"                                     |
| 010475A    | Macedonia  | P-2004/52         | 11/9/1999  | 901360     | 3/3/2004   | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 011807A    | Macedonia  | P-2008/278        | 5/24/2002  | 902910     | 8/20/2008  | Triamide-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer |
| 009576A    | Mexico     | 9911495           | 5/29/1998  | 218084     | 11/12/2003 | 4-substituted-9-deoxo-9a-aza-9a-homocerythromycin A Derivatives"                                     |
| 010216A    | Mexico     | PA/A/2001/0123 25 | 5/18/2000  | 221092     | 6/22/2004  | Polymorphs Of A Crystalline Azobicyclo (2.2.2) Octan-3-amine Citrate And Their Pharmaceutical Compos |
| 010278A    | Mexico     | PA/A/1999/1209 4  | 12/17/1999 | 219943     | 4/16/2004  | An Infectious CDNA Clone Of North American Porcine Reproductive And Respiratory Syndrome (PRRS) Viru |
| 010278A    | Mexico     | PA/A/2003/0093 54 | 10/10/2003 | 264171     | 1/29/2009  | An Infectious CDNA Clone Of North American Porcine Reproductive And Respiratory Syndrome (PRRS) Viru |
| 010298A    | Mexico     | PA/A/2000/0011 52 | 1/31/2000  | 252340     | 12/7/2007  | Adjuvants For Use In Vaccines                                                                        |
| 010298A    | Mexico     | PA/A/2005/0040 57 | 4/15/2005  | 288025     | 7/1/2011   | Adjuvants For Use In Vaccines                                                                        |
| 010298A    | Mexico     | MX/A/2011/0000 89 | 1/5/2011   |            |            | Adjuvants For Use In Vaccines                                                                        |
| 010299A    | Mexico     | PA/A/2000/0001 73 | 1/3/2000   | 249675     | 9/28/2007  | Erysipelothrix Rhusiopathiae Antigens And Vaccine Compositions                                       |
| 010475A    | Mexico     | PA/A/2001/0050 55 | 11/9/1999  | 219781     | 4/7/2004   | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 010610A    | Mexico     | PA/A/2002/0073 05 | 11/30/2000 | 227494     | 4/28/2005  | Azalide Antibiotic Compositions                                                                      |
| 010650A    | Mexico     | PA/A/2002/0015 13 | 7/24/2000  | 243509     | 1/26/2007  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |

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|------------|---------|------------------|------------|------------|------------|-------------------------------------------------------------------------------------------------------|
| 010849A    | Mexico  | PA/A/2002/004231 | 4/26/2002  | 236562     | 5/4/2006   | Process For Preparing 4-substituted-9-deoxo-9a-aza-9a-homocrythromycin-a Derivatives <sup>1</sup>     |
| 011807A    | Mexico  | PA/A/2003/011707 | 5/24/2002  | 248441     | 8/28/2007  | Triamide-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer  |
| 011858A    | Mexico  | PA/A/2003/011599 | 6/7/2002   |            |            | One Dose Vaccination Of Pigs With Mycoplasma Hyopneumoniae                                            |
| 011858A    | Mexico  | MX/a/2009/003894 | 4/13/2009  |            |            | One Dose Vaccination Of Pigs With Mycoplasma Hyopneumoniae                                            |
| 023034A    | Mexico  | PA/A/2004/007777 | 1/31/2003  | 260182     | 9/2/2008   | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                                |
| 023034A    | Mexico  | MX/A/2008/003191 | 3/6/2008   | 295025     | 1/20/2012  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                                |
| 023064A    | Mexico  | PA/a/2004/003724 | 11/13/2002 | 267862     | 6/29/2009  | Formulations Of Cephalosporin                                                                         |
| 023106A    | Mexico  | PA/A/2004/004465 | 11/4/2002  | 258271     | 6/27/2008  | Benzamide, Heteroarylamide And Reverse Amides                                                         |
| 025246A    | Mexico  | PA/A/2005/002255 | 8/14/2003  | 269058     | 8/6/2009   | Cattle Reproductive Disease Vaccines                                                                  |
| 025246A    | Mexico  | MX/a/2009/000142 | 1/7/2009   |            |            | Cattle Reproductive Disease Vaccines                                                                  |
| 025328A    | Mexico  | PA/A/2005/010697 | 3/22/2004  | 279322     | 9/24/2010  | Microfluidized Oil-in-water Emulsions And Vaccine Compositions                                        |
| 025670A    | Mexico  | MX/a/2006/008032 | 1/17/2005  | 300139     | 6/12/2012  | Antimicrobial Preservatives To Achieve Multi-dose Formulation Using B-cyclodextrins For Liquid Dosage |
| 025951A    | Mexico  | PA/a/2006/001146 | 7/26/2004  | 262069     | 11/11/2008 | Safe Mutant Viral Vaccines                                                                            |
| 025951A    | Mexico  | MX/a/2008/010725 | 8/21/2008  | 295336     | 1/30/2012  | Safe Mutant Viral Vaccines                                                                            |
| 027946A    | Mexico  | MX/a/2008/002415 | 9/8/2006   | 273190     | 1/8/2010   | Solid Salt Forms Of A Pyrrole Substituted 2-indolinone                                                |
| 032220A    | Mexico  | MX/a/2007/004133 | 9/23/2005  | 282010     | 12/13/2010 | Canine Vaccines Against Bordetella Bronchiseptica                                                     |
| 032251A    | Mexico  | PA/A/2006/011569 | 3/24/2005  | 261163     | 10/8/2008  | Microfluidized Oil-In-Water Emulsions And Vaccine Compositions                                        |
| 032632A    | Mexico  | MX/a/2007/009060 | 2/13/2006  | 286001     | 4/25/2011  | N Protein Mutants Of Porcine Reproductive And Respiratory Syndrome Virus                              |
| 032702A    | Mexico  | MX/a/2008/001326 | 7/17/2006  | 281938     | 12/10/2010 | Methods Of Vaccine Administration, New Feline Caliciviruses, And Treatments For Immunizing Animals A  |



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|------------|------------|------------------|------------|------------|------------|------------------------------------------------------------------------------------------------------|
| 032702A    | Mexico     | MX/a/2010/010466 | 9/24/2010  | 293601     | 12/13/2011 | Methods Of Vaccine Administration, New Feline Caliciviruses, And Treatments For Immunizing Animals A |
| 033031A    | Mexico     | MX/a/2008/005426 | 11/24/2006 | 284648     | 3/11/2011  | Marked Bovine Viral Diarrhea Virus Vaccines                                                          |
| 033104A    | Mexico     | MX/a/2008/004624 | 9/25/2006  | 284952     | 3/23/2011  | Vaccines And Methods To Treat Canine Influenza                                                       |
| 033250A    | Mexico     | MX/A/2008/009684 | 1/15/2007  | 281591     | 12/2/2010  | Novel Glycolipid Adjuvant Compositions                                                               |
| 033251A    | Mexico     | MX/a/2009/001849 | 8/30/2007  |            |            | Heat Treated Bacterins And Emulsion Vaccines Prepared From Such Heat Treated Bacterins               |
| 033517A    | Mexico     | MX/a/2009/007087 | 11/23/2007 |            |            | Methods Of Vaccine Administration                                                                    |
| 009576A    | Moldova    | EA199901015      | 5/29/1998  | EA002441   | 4/25/2002  | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 010475A    | Moldova    | EA200100416      | 11/9/1999  | 005156     | 12/30/2004 | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 010475A    | Moldova    | 200400701        | 6/21/2004  | 009729     | 2/28/2008  | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 009576A    | Montenegro | P-586/99         | 11/17/2008 | 49675      | 8/31/2009  | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 010475A    | Montenegro | P-719/08         | 11/18/2008 | 00467      | 10/10/2011 | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 011807A    | Montenegro | P-721/08         | 11/18/2008 | 00468      | 10/10/2011 | Triamide-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer |
| 023034A    | Montenegro | P-730/08         | 11/18/2008 | 00472      | 10/10/2011 | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 025246A    | Montenegro | P-213/09         | 5/28/2009  | 00810      | 3/20/2012  | Cattle Reproductive Disease Vaccines                                                                 |
| 025951A    | Montenegro | P-729/08         | 11/18/2008 | 00471      | 10/10/2011 | Safe Mutant Viral Vaccines                                                                           |
| 032220A    | Montenegro | P-2011/192       | 11/29/2011 |            |            | Canine Vaccines Against Bordetella Bronchiseptica                                                    |
| 033104A    | Montenegro | P-765/08         | 11/20/2008 | 00485      | 10/10/2011 | Vaccines And Methods To Treat Canine Influenza                                                       |
| 033250A    | Montenegro | P-45/08          | 1/15/2007  | 00045      | 10/10/2010 | Novel Glycolipid Adjuvant Compositions                                                               |
| 033251A    | Montenegro | P-75/09          | 4/24/2009  | 00598      | 12/20/2011 | Heat Treated Bacterins And Emulsion Vaccines Prepared From Such Heat Treated Bacterins               |
| 009576A    | Morocco    | 25107            | 6/10/1998  | 24564      | 12/31/1998 | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 010475A    | Morocco    | 25850            | 11/17/1999 | 26707      | 12/20/2004 | 13-membered Azalides And Their Use As Antibiotic Agents                                              |

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|------------|-------------|------------|------------|------------|------------|------------------------------------------------------------------------------------------------------|
| 009576A    | Netherlands | 98920693.3 | 5/29/1998  | 0988310    | 10/1/2003  | 4-substituted-9-deoxo-9a-aza-9a-homocerythromycin A Derivatives"                                     |
| 009576A    | Netherlands | 300150     | 5/10/2004  | 300150     | 7/8/2004   | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 010278A    | Netherlands | 99309409.3 | 11/25/1999 | 1018557    | 11/9/2005  | An Infectious CDNA Clone Of North American Porcine Reproductive And Respiratory Syndrome (PRRS) Viru |
| 010298A    | Netherlands | 99310514.7 | 12/23/1999 | 1023904    | 12/7/2005  | Adjuvants For Use In Vaccines                                                                        |
| 010298A    | Netherlands | 05023118.2 | 10/24/2005 | 1616573    | 11/16/2011 | Adjuvants For Use In Vaccines                                                                        |
| 010299A    | Netherlands | 99309202.2 | 11/18/1999 | 1027895    | 2/20/2008  | Erysipelothrix Rhusiopathiae Antigens And Vaccine Compositions.                                      |
| 010475A    | Netherlands | 99954277.2 | 11/9/1999  | 1131331    | 3/3/2004   | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 010610A    | Netherlands | 00979850.5 | 11/30/2000 | EP1250343  | 6/25/2003  | Azalide Antibiotic Compositions                                                                      |
| 010650A    | Netherlands | 00944154.4 | 7/24/2000  | 1200606    | 10/4/2006  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 011807A    | Netherlands | 02780923.5 | 5/24/2002  | 1404653    | 8/20/2008  | Triamide-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer |
| 011858A    | Netherlands | 02735755.7 | 6/7/2002   | 1474067    | 10/29/2008 | One Dose Vaccination Of Pigs With Mycoplasma Hyopneumoniae                                           |
| 023034A    | Netherlands | 03739390.7 | 1/31/2003  | 1476539    | 3/25/2009  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 023034A    | Netherlands | 09150098.3 | 1/6/2009   | 2050815    | 10/26/2011 | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 023064A    | Netherlands | 02781499.5 | 11/13/2002 | 1448234    | 9/3/2008   | Formulations Of Cephalosporin                                                                        |
| 025951A    | Netherlands | 04801973.1 | 7/26/2004  | 1651263    | 11/24/2010 | Safe Mutant Viral Vaccines                                                                           |
| 027946A    | Netherlands | 06795470.1 | 9/8/2006   | 1928858    | 7/22/2009  | Solid Salt Forms Of A Pyrrole Substituted 2-indolinone                                               |
| 032220A    | Netherlands | 05789769.6 | 9/23/2005  | 1799253    | 9/14/2011  | Canine Vaccines Against Bordetella Bronchiseptica                                                    |
| 032702A    | Netherlands | 06795148.3 | 7/17/2006  | 1912665    | 1/26/2011  | Methods Of Vaccine Administration, New Feline Caliciviruses, And Treatments For Immunizing Animals A |
| 009576A    | New Zealand | 500660     | 5/29/1998  | 500660     | 6/10/2002  | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 009576A    | New Zealand | 514871     | 10/17/2001 | 514871     | 12/8/2003  | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |

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|------------|-------------|----------|------------|------------|------------|------------------------------------------------------------------------------------------------------|
| 010278A    | New Zealand | 501264   | 11/23/1999 | 501264     | 1/10/2002  | An Infectious CDNA Clone Of North American Porcine Reproductive And Respiratory Syndrome (PRRS) Viru |
| 010278A    | New Zealand | 513289   | 8/1/2001   | 513289     | 8/7/2003   | An Infectious CDNA Clone Of North American Porcine Reproductive And Respiratory Syndrome (PRRS) Viru |
| 010298A    | New Zealand | 502341   | 1/14/2000  | 502341     | 12/17/2001 | Adjuvants For Use In Vaccines                                                                        |
| 010298A    | New Zealand | 513202   | 7/27/2001  | 513202     | 6/9/2003   | Adjuvants For Use In Vaccines                                                                        |
| 010299A    | New Zealand | 501128   | 11/16/1999 | 501128     | 4/4/2002   | Erysipelothrix Rhusiopathiae Antigens And Vaccine Compositions                                       |
| 010475A    | New Zealand | 511199   | 11/9/1999  | 511199     | 12/8/2003  | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 010475A    | New Zealand | 526120   | 5/26/2003  | 526120     | 6/9/2005   | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 010610A    | New Zealand | 518665   | 11/30/2000 | 518665     | 6/9/2005   | Azalide Antibiotic Compositions                                                                      |
| 011807A    | New Zealand | 528752   | 5/24/2002  | 528752     | 10/12/2006 | Triamide-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer |
| 011858A    | New Zealand | 530106   | 6/7/2002   | 530106     | 10/11/2007 | One Dose Vaccination Of Pigs With Mycoplasma Hyopneumoniae                                           |
| 023064A    | New Zealand | 532208   | 11/13/2002 | 532208     | 5/10/2007  | Formulations Of Cephalosporin                                                                        |
| 023064A    | New Zealand | 551403   | 11/20/2006 | 551403     | 6/12/2008  | Formulations Of Cephalosporin                                                                        |
| 025246A    | New Zealand | 538394   | 8/14/2003  | 538394     | 10/9/2008  | Cattle Reproductive Disease Vaccines                                                                 |
| 025246A    | New Zealand | 565206   | 1/18/2008  | 565206     | 4/9/2009   | Cattle Reproductive Disease Vaccines                                                                 |
| 025328A    | New Zealand | 542576   | 3/22/2004  | 542576     | 3/12/2009  | Microfluidized Oil-in-water Emulsions And Vaccine Compositions                                       |
| 025670A    | New Zealand | 548236   | 1/17/2005  | 548236     | 6/10/2010  | Antimicrobial Preservatives To Achieve Multi-dose Formulation Using B-cyclodextrins For Liquid Dosag |
| 025951A    | New Zealand | 545612   | 7/26/2004  |            |            | Safe Mutant Viral Vaccines                                                                           |
| 027946A    | New Zealand | 566033   | 9/8/2006   | 566033     | 8/8/2011   | Solid Salt Forms Of A Pyrrole Substituted 2-indolinone                                               |
| 032220A    | New Zealand | 591422   | 2/28/2011  |            |            | Canine Vaccines Against Bordetella Bronchiseptica                                                    |
| 032251A    | New Zealand | 550152   | 3/24/2005  | 550152     | 8/13/2009  | Microfluidized Oil-In-Water Emulsions And Vaccine Compositions                                       |

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|------------|-------------|-----------|------------|------------|------------|----------------------------------------------------------------------------------------|
| 032632A    | New Zealand | 561848    | 2/13/2006  | 561848     | 6/10/2010  | N Protein Mutants Of Porcine Reproductive And Respiratory Syndrome Virus               |
| 033031A    | New Zealand | 567668    | 11/24/2006 | 567668     | 11/7/2011  | Marked Bovine Viral Diarrhea Virus Vaccines                                            |
| 033104A    | New Zealand | 566490    | 9/25/2006  | 566490     | 10/10/2011 | Vaccines And Methods To Treat Canine Influenza                                         |
| 033250A    | New Zealand | 569375    | 1/15/2007  | 569375     | 9/9/2010   | Novel Glycolipid Adjuvant Compositions                                                 |
| 033251A    | New Zealand | 574896    | 8/30/2007  | 574896     | 3/5/2012   | Heat Treated Bacterins And Emulsion Vaccines Prepared From Such Heat Treated Bacterins |
| 033251A    | New Zealand | 595748    | 10/13/2011 |            |            | Heat Treated Bacterins And Emulsion Vaccines Prepared From Such Heat Treated Bacterins |
| 033517A    | New Zealand | 577855    | 11/23/2007 | 577855     | 11/5/2012  | Methods Of Vaccine Administration                                                      |
| 009576A    | Norway      | 1999-6106 | 5/29/1998  | 316.911    | 6/21/2004  | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                        |
| 010475A    | Norway      | 20012464  | 11/9/1999  | 319796     | 9/19/2005  | 13-membered Azalides And Their Use As Antibiotic Agents                                |
| 010475A    | Norway      | 20050893  | 2/18/2005  | 330249     | 3/14/2011  | 13-membered Azalides And Their Use As Antibiotic Agents                                |
| 010475A    | Norway      | 2005 0904 | 2/18/2005  | 329629     | 11/22/2010 | 13-membered Azalides And Their Use As Antibiotic Agents                                |
| 011858A    | Norway      | 20035762  | 6/7/2002   |            |            | One Dose Vaccination Of Pigs With Mycoplasma Hyopneumoniae                             |
| 023064A    | Norway      | 20042271  | 11/13/2002 |            |            | Formulations Of Cephalosporin                                                          |
| 025246A    | Norway      | 20050603  | 8/14/2003  |            |            | Cattle Reproductive Disease Vaccines                                                   |
| 025328A    | Norway      | 20054376  | 3/22/2004  |            |            | Microfluidized Oil-in-water Emulsions And Vaccine Compositions                         |
| 025951A    | Norway      | 20060931  | 7/26/2004  |            |            | Safe Mutant Viral Vaccines                                                             |
| 032220A    | Norway      | 20071385  | 9/23/2005  |            |            | Canine Vaccines Against Bordetella Bronchiseptica                                      |
| 032251A    | Norway      | 20065039  | 3/24/2005  |            |            | Microfluidized Oil-In-Water Emulsions And Vaccine Compositions                         |
| 032632A    | Norway      | 20074885  | 2/13/2006  |            |            | N Protein Mutants Of Porcine Reproductive And Respiratory Syndrome Virus               |
| 033031A    | Norway      | 20081909  | 11/24/2006 |            |            | Marked Bovine Viral Diarrhea Virus Vaccines                                            |
| 033250A    | Norway      | 20083405  | 1/15/2007  |            |            | Novel Glycolipid Adjuvant Compositions                                                 |
| 033251A    | Norway      | 20090745  | 8/30/2007  |            |            | Heat Treated Bacterins And Emulsion Vaccines Prepared From Such Heat Treated Bacterins |



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|------------|-------------|---------------|------------|---------------|------------|------------------------------------------------------------------------------------------------------|
| 009576A    | Philippines | 1-1998-01436  | 6/10/1998  | 1-1998-01436  | 9/15/2004  | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 010475A    | Philippines | 1-1999-02910  | 11/18/1999 | 1-1999-02910  | 6/1/2004   | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 011807A    | Philippines | 1-2002-000481 | 6/26/2002  | 1-2002-000481 | 12/21/2007 | Triamide-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer |
| 011858A    | Philippines | 1-2004-500005 | 6/7/2002   | 1-2004-500005 | 10/30/2008 | One Dose Vaccination Of Pigs With Mycoplasma Hyopneumoniae                                           |
| 023064A    | Philippines | 1-2004-500726 | 11/13/2002 | 1-2004-500726 | 11/5/2009  | Formulations Of Cephalosporin                                                                        |
| 025246A    | Philippines | 1-2005-500338 | 8/14/2003  |               |            | Cattle Reproductive Disease Vaccines                                                                 |
| 025328A    | Philippines | 1-2005-501776 | 3/22/2004  | 1-2005-501776 | 2/8/2010   | Microfluidized Oil-in-water Emulsions And Vaccine Compositions                                       |
| 025951A    | Philippines | 1-2006-500227 | 7/26/2004  | 1-2006-500227 | 6/30/2009  | Safe Mutant Viral Vaccines                                                                           |
| 032220A    | Philippines | 1-2007-500710 | 9/23/2005  | 1-2007-500710 | 8/19/2011  | Canine Vaccines Against Bordetella Bronchiseptica                                                    |
| 032251A    | Philippines | 1-2006-501952 | 3/24/2005  | 1-2006-501952 | 2/8/2010   | Microfluidized Oil-In-Water Emulsions And Vaccine Compositions                                       |
| 032632A    | Philippines | 1-2007-501686 | 2/13/2006  | 1-2007-501686 | 3/15/2012  | N Protein Mutants Of Porcine Reproductive And Respiratory Syndrome Virus                             |
| 033031A    | Philippines | 1-2008-501315 | 11/24/2006 |               |            | Marked Bovine Viral Diarrhea Virus Vaccines                                                          |
| 033104A    | Philippines | 1-2008-500742 | 9/25/2006  |               |            | Vaccines And Methods To Treat Canine Influenza                                                       |
| 033104A    | Philippines | 1-2011-502633 | 12/19/2011 |               |            | Vaccines And Methods To Treat Canine Influenza                                                       |
| 033250A    | Philippines | 1-2008-501559 | 1/15/2007  |               |            | Novel Glycolipid Adjuvant Compositions                                                               |
| 033251A    | Philippines | 1-2009-500387 | 8/30/2007  |               |            | Heat Treated Bacterins And Emulsion Vaccines Prepared From Such Heat Treated Bacterins               |
| 009576A    | Poland      | P337505       | 5/29/1998  | 191601        | 12/15/2005 | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 009576A    | Poland      | 83/191601     | 6/14/2006  | 83/191601     | 9/8/2007   | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 010475A    | Poland      | P 347784      | 11/9/1999  | 198580        | 12/28/2007 | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 010650A    | Poland      | P353874       | 7/24/2000  | 203818        | 6/27/2009  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 010849A    | Poland      | P-353633      | 4/25/2002  |               |            | Process For Preparing 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin-a Derivatives"                |

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|------------|----------|------------|------------|------------|------------|------------------------------------------------------------------------------------------------------|
| 011807A    | Poland   | P 367680   | 5/24/2002  |            |            | Triamide-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer |
| 011858A    | Poland   | P373367    | 6/7/2002   | 209773     | 3/23/2011  | One Dose Vaccination Of Pigs With Mycoplasma Hyopneumoniae                                           |
| 023034A    | Poland   | P371320    | 1/31/2003  | 211693     | 12/29/2011 | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 023064A    | Poland   | P-370083   | 11/13/2002 | Awaiting   | 4/23/2012  | Formulations Of Cephalosporin                                                                        |
| 025246A    | Poland   | P375548    | 8/14/2003  |            |            | Cattle Reproductive Disease Vaccines                                                                 |
| 025951A    | Poland   | 04801973.1 | 7/26/2004  | 1651263    | 11/24/2010 | Safe Mutant Viral Vaccines                                                                           |
| 027946A    | Poland   | 06795470.1 | 9/8/2006   | 1928858    | 7/22/2009  | Solid Salt Forms Of A Pyrrole Substituted 2-indolinone                                               |
| 032220A    | Poland   | 05789769.6 | 9/23/2005  | 1799253    | 9/14/2011  | Canine Vaccines Against Bordetella Bronchiseptica                                                    |
| 009576A    | Portugal | 98920693.3 | 5/29/1998  | 0988310    | 10/1/2003  | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 009576A    | Portugal | 163        | 5/10/2004  | 163        | 6/7/2004   | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 010278A    | Portugal | 99309409.3 | 11/25/1999 | 1018557    | 11/9/2005  | An Infectious CDNA Clone Of North American Porcine Reproductive And Respiratory Syndrome (PRRS) Viru |
| 010298A    | Portugal | 99310514.7 | 12/23/1999 | 1023904    | 12/7/2005  | Adjuvants For Use In Vaccines                                                                        |
| 010298A    | Portugal | 05023118.2 | 10/24/2005 | 1616573    | 11/16/2011 | Adjuvants For Use In Vaccines                                                                        |
| 010299A    | Portugal | 99309202.2 | 11/18/1999 | 1027895    | 2/20/2008  | Erysipclothrix Rhusiopathiae Antigens And Vaccine Compositions                                       |
| 010475A    | Portugal | 99954277.2 | 11/9/1999  | 1131331    | 3/3/2004   | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 010610A    | Portugal | 00979850.5 | 11/30/2000 | EP1250343  | 6/25/2003  | Azalide Antibiotic Compositions                                                                      |
| 010650A    | Portugal | 00944154.4 | 7/24/2000  | 1200606    | 10/4/2006  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 011807A    | Portugal | 02780923.5 | 5/24/2002  | 1404653    | 8/20/2008  | Triamide-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer |
| 011858A    | Portugal | 02735755.7 | 6/7/2002   | 1474067    | 10/29/2008 | One Dose Vaccination Of Pigs With Mycoplasma Hyopneumoniae                                           |
| 023034A    | Portugal | 03739390.7 | 1/31/2003  | 1476539    | 3/25/2009  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |

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|------------|--------------------|-------------|------------|------------|------------|------------------------------------------------------------------------------------------------------|
| 023034A    | Portugal           | 09150098.3  | 1/6/2009   | 2050815    | 10/26/2011 | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 023064A    | Portugal           | 02781499.5  | 11/13/2002 | 1448234    | 9/3/2008   | Formulations Of Cephalosporin                                                                        |
| 025951A    | Portugal           | 04801973.1  | 7/26/2004  | 1651263    | 11/24/2010 | Safe Mutant Viral Vaccines                                                                           |
| 027946A    | Portugal           | 06795470.1  | 9/8/2006   | 1928858    | 7/22/2009  | Solid Salt Forms Of A Pyrrole Substituted 2-indolinone                                               |
| 032220A    | Portugal           | 05789769.6  | 9/23/2005  | 1799253    | 9/14/2011  | Canine Vaccines Against Bordetella Bronchiseptica                                                    |
| 009576A    | Romania            | 98920693.3  | 5/29/1998  | 0988310    | 10/1/2003  | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 009576A    | Romania            | C/041       | 5/24/2007  |            |            | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 010475A    | Romania            | 99954277.2  | 11/9/1999  | 1131331    | 3/3/2004   | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 011807A    | Romania            | 02780923.5  | 5/24/2002  | 1404653    | 8/20/2008  | Triamide-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer |
| 025951A    | Romania            | 04801973.1  | 7/26/2004  | 1651263    | 11/24/2010 | Safe Mutant Viral Vaccines                                                                           |
| 027946A    | Romania            | 06795470.1  | 9/8/2006   | 1928858    | 7/22/2009  | Solid Salt Forms Of A Pyrrole Substituted 2-indolinone                                               |
| 032220A    | Romania            | 05789769.6  | 9/23/2005  | 1799253    | 9/14/2011  | Canine Vaccines Against Bordetella Bronchiseptica                                                    |
| 009576A    | Russian Federation | EA199901015 | 5/29/1998  | EA002441   | 4/25/2002  | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 009576A    | Russian Federation | EA002441    | 7/24/2007  | EA002441   | 4/18/2008  | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 010216A    | Russian Federation | EA200101108 | 5/18/2000  | 003731     | 8/28/2003  | Polymorphs Of A Crystalline Azobicyclo (2.2.2) Octan-3-amine Citrate And Their Pharmaceutical Compos |
| 010216A    | Russian Federation | 003731      | 11/1/2008  | 003731     | 11/7/2008  | Polymorphs Of A Crystalline Azobicyclo (2.2.2) Octan-3-amine Citrate And Their Pharmaceutical Compos |
| 010475A    | Russian Federation | EA200100416 | 11/9/1999  | 005156     | 12/30/2004 | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 010475A    | Russian Federation | 200400701   | 6/21/2004  | 009729     | 2/28/2008  | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 010849A    | Russian Federation | 2002111333  | 4/26/2002  | 2233287    | 7/27/2004  | Process For Preparing 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin-a Derivatives"                |

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|------------|--------------------|----------------|------------|------------|------------|------------------------------------------------------------------------------------------------------|
| 011807A    | Russian Federation | 200301310      | 5/24/2002  | 007008     | 6/30/2006  | Triamide-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer |
| 011858A    | Russian Federation | 200301323      | 6/7/2002   | 009901     | 4/28/2008  | One Dose Vaccination Of Pigs With Mycoplasma Hyopneumoniae                                           |
| 023034A    | Russian Federation | 2004124521     | 1/31/2003  | 2293117    | 2/10/2007  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 023064A    | Russian Federation | EA200400489/26 | 11/13/2002 | 008503     | 6/29/2007  | Formulations Of Cephalosporin                                                                        |
| 025246A    | Russian Federation | 200500275      | 8/14/2003  | 011578     | 1/26/2009  | Cattle Reproductive Disease Vaccines                                                                 |
| 025328A    | Russian Federation | 2005130646     | 3/22/2004  |            |            | Microfluidized Oil-in-water Emulsions And Vaccine Compositions                                       |
| 025328A    | Russian Federation | 2009113834     | 4/13/2009  |            |            | Microfluidized Oil-in-water Emulsions And Vaccine Compositions                                       |
| 025951A    | Russian Federation | EA200600121    | 7/26/2004  | 009391     | 12/28/2007 | Safe Mutant Viral Vaccines                                                                           |
| 032220A    | Russian Federation | 2007112480     | 9/23/2005  | 2400248    | 9/27/2010  | Canine Vaccines Against Bordetella Bronchiseptica                                                    |
| 032251A    | Russian Federation | 2006135121     | 3/24/2005  | 2347586    | 2/27/2009  | Microfluidized Oil-In-Water Emulsions And Vaccine Compositions                                       |
| 032632A    | Russian Federation | RJ2007131536   | 2/13/2006  | 2381035    | 2/10/2010  | N Protein Mutants Of Porcine Reproductive And Respiratory Syndrome Virus                             |
| 033031A    | Russian Federation | 2008120331     | 11/24/2006 | 2394594    | 7/20/2010  | Marked Bovine Viral Diarrhea Virus Vaccines                                                          |
| 033104A    | Russian Federation | 2008113207     | 9/25/2006  | 2396976    | 8/20/2010  | Vaccines And Methods To Treat Canine Influenza                                                       |
| 033250A    | Russian Federation | 2008129203     | 1/15/2007  | 2392965    | 6/27/2010  | Novel Glycolipid Adjuvant Compositions                                                               |
| 033251A    | Russian Federation | 2009108004     | 8/30/2007  | 2425692    | 8/10/2011  | Heat Treated Bacterins And Emulsion Vaccines Prepared From Such Heat Treated Bacterins               |
| 033251A    | Russian Federation | 2011115400     | 4/20/2011  |            |            | Heat Treated Bacterins And Emulsion Vaccines Prepared From Such Heat Treated Bacterins               |
| 009576A    | Serbia             | P-586/99       | 5/29/1998  | 49675      | 11/15/2007 | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 010475A    | Serbia             | P-334/01       | 11/9/1999  | 50.302     | 6/4/2009   | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 011807A    | Serbia             | P-1004/03      | 5/24/2002  | 50712      | 6/30/2010  | Triamide-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer |
| 023034A    | Serbia             | P-700/04       | 1/31/2003  | 50813      | 4/14/2010  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |



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|------------|-----------------|--------------|------------|------------|------------|------------------------------------------------------------------------------------------------------|
| 025951A    | Serbia          | P-45/06      | 7/26/2004  | 51456      | 11/17/2010 | Safe Mutant Viral Vaccines                                                                           |
| 032220A    | Serbia          | 05789769.6   | 9/23/2005  | P-497/11   | 9/14/2011  | Canine Vaccines Against Bordetella Bronchiseptica                                                    |
| 033104A    | Serbia          | P-2008/0138  | 9/25/2006  |            |            | Vaccines And Methods To Treat Canine Influenza                                                       |
| 033250A    | Serbia          | P-2008/0318  | 1/15/2007  |            |            | Novel Glycolipid Adjuvant Compositions                                                               |
| 033251A    | Serbia          | P-2009/0088  | 8/30/2007  |            |            | Heat Treated Bacterins And Emulsion Vaccines Prepared From Such Heat Treated Bacterins               |
| 010849A    | Singapore       | 200202485-9  | 4/24/2002  | P-100789   | 1/30/2004  | Process For Preparing 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin-a Derivatives"                |
| 023034A    | Singapore       | 2000404599-3 | 1/31/2003  | 105899     | 5/30/2007  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 023064A    | Singapore       | 200402313-1  | 11/13/2002 | 104101     | 8/31/2006  | Formulations Of Cephalosporin                                                                        |
| 009576A    | Slovak Republic | PV-1683-99S  | 5/29/1998  | 284 171    | 7/29/2004  | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 009576A    | Slovak Republic | PDO5001-2005 | 1/24/2005  | DO20       | 5/30/2005  | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 010475A    | Slovak Republic | PV0663-2001  | 11/9/1999  | 284 607    | 5/16/2005  | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 010650A    | Slovak Republic | PV0139-2002S | 7/24/2000  |            |            | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 011807A    | Slovak Republic | PV1610-2003  | 5/24/2002  | 287806     | 8/17/2011  | Triamide-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer |
| 011858A    | Slovak Republic | PV1579-2003S | 6/7/2002   | 288010     | 8/17/2012  | One Dose Vaccination Of Pigs With Mycoplasma Hyopneumoniae                                           |
| 023034A    | Slovak Republic | 03739390.7   | 1/31/2003  | 1476539    | 3/25/2009  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 023034A    | Slovak Republic | 09150098.3   | 1/6/2009   | 2050815    | 10/26/2011 | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 023064A    | Slovak Republic | 02781499.5   | 11/13/2002 | 1448234    | 9/3/2008   | Formulations Of Cephalosporin                                                                        |
| 025951A    | Slovak Republic | 04801973.1   | 7/26/2004  | 1651263    | 11/24/2010 | Safe Mutant Viral Vaccines                                                                           |
| 032220A    | Slovak Republic | 05789769.6   | 9/23/2005  | 1799253    | 9/14/2011  | Canine Vaccines Against Bordetella Bronchiseptica                                                    |
| 009576A    | Slovenia        | 98920693.3   | 5/29/1998  | 0988310    | 10/1/2003  | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 009576A    | Slovenia        | C-200440013  | 10/14/2004 | 200440013  | 3/2/2006   | 4-substituted-9-deoxo-9a-aza-9a-homocrythromycin A Derivatives"                                      |

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|------------|--------------|------------|------------|-------------|------------|------------------------------------------------------------------------------------------------------|
| 010475A    | Slovenia     | 99954277.2 | 11/9/1999  | 1131331     | 3/3/2004   | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 011807A    | Slovenia     | 02780923.5 | 5/24/2002  | 1404653     | 8/20/2008  | Triamide-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer |
| 023034A    | Slovenia     | 03739390.7 | 1/31/2003  | P-200331553 | 3/25/2009  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 023034A    | Slovenia     | 09150098.3 | 1/6/2009   | P200332087  | 10/26/2011 | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 025951A    | Slovenia     | 04801973.1 | 7/26/2004  | 1651263     | 11/24/2010 | Safe Mutant Viral Vaccines                                                                           |
| 032220A    | Slovenia     | 05789769.6 | 9/23/2005  | P200531376  | 9/14/2011  | Canine Vaccines Against Bordetella Bronchiseptica                                                    |
| 009576A    | South Africa | 98/5017    | 6/10/1998  | 98/5017     | 2/23/2000  | 4-substituted-9-deoxo-9a-aza-9a-homocerythromycin A Derivatives"                                     |
| 010278A    | South Africa | 99/7289    | 11/24/1999 | 99/7289     | 7/25/2001  | An Infectious CDNA Clone Of North American Porcine Reproductive And Respiratory Syndrome (PRRS) Viru |
| 010298A    | South Africa | 2000/0142  | 1/14/2000  | 2000/0142   | 8/29/2001  | Adjuvants For Use In Vaccines                                                                        |
| 010299A    | South Africa | 99/7138    | 11/16/1999 | 99/7138     | 6/27/2001  | Erysipelothrix Rhusiopathiae Antigens And Vaccine Compositions                                       |
| 010475A    | South Africa | 2001/4019  | 11/9/1999  | 2001/4019   | 8/28/2002  | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 010610A    | South Africa | 2002/5958  | 11/30/2000 | 2002/5958   | 11/26/2003 | Azalide Antibiotic Compositions                                                                      |
| 010650A    | South Africa | 2002/1072  | 7/24/2000  | 2002/1072   | 4/30/2003  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 010849A    | South Africa | 2002/3252  | 4/24/2002  | 2002/3252   | 11/26/2003 | Process For Preparing 4-substituted-9-deoxo-9a-aza-9a-homocerythromycin-a Derivatives"               |
| 011807A    | South Africa | 2003/7818  | 5/24/2002  | 2003/7818   | 11/24/2004 | Triamide-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer |
| 011858A    | South Africa | 2003/9698  | 6/7/2002   |             |            | One Dose Vaccination Of Pigs With Mycoplasma Hyopocumoniae                                           |
| 023034A    | South Africa | 2004/5345  | 1/31/2003  | 2004/5345   | 8/31/2005  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 023064A    | South Africa | 2004/03933 | 11/13/2002 | 2004/03933  | 7/26/2006  | Formulations Of Cephalosporin                                                                        |
| 025246A    | South Africa | 2005/01171 | 8/14/2003  | 2005/01171  | 12/27/2006 | Cattle Reproductive Disease Vaccines                                                                 |



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|------------|--------------|------------|------------|-------------|------------|-------------------------------------------------------------------------------------------------------|
| 025328A    | South Africa | 2005/07994 | 3/22/2004  | 2005/07994  | 3/28/2007  | Microfluidized Oil-in-water Emulsions And Vaccine Compositions                                        |
| 025670A    | South Africa | 2006/05148 | 1/17/2005  | 2006/05148  | 10/31/2007 | Antimicrobial Preservatives To Achieve Multi-dose Formulation Using B-cyclodextrins For Liquid Dosage |
| 025951A    | South Africa | 2006/00585 | 7/26/2004  | 2006/00585  | 3/28/2007  | Safe Mutant Viral Vaccines                                                                            |
| 027946A    | South Africa | 2008/01431 | 9/8/2006   |             |            | Solid Salt Forms Of A Pyrrole Substituted 2-indolinone                                                |
| 032220A    | South Africa | 2007/02166 | 9/23/2005  | 2007/02166  | 11/26/2008 | Canine Vaccines Against Bordetella Bronchiseptica                                                     |
| 032251A    | South Africa | 2006/08200 | 3/24/2005  |             |            | Microfluidized Oil-In-Water Emulsions And Vaccine Compositions                                        |
| 032632A    | South Africa | 2007/05973 | 2/13/2006  | 2007/05973  | 4/29/2009  | N Protein Mutants Of Porcine Reproductive And Respiratory Syndrome Virus                              |
| 033031A    | South Africa | 2008/03558 | 11/24/2006 |             |            | Marked Bovine Viral Diarrhea Virus Vaccines                                                           |
| 033104A    | South Africa | 2008-02892 | 9/25/2006  | 2008/02892  | 1/28/2009  | Vaccines And Methods To Treat Canine Influenza                                                        |
| 033250A    | South Africa | 2008/06149 | 1/15/2007  | 2008/06149  | 11/25/2009 | Novel Glycolipid Adjuvant Compositions                                                                |
| 033251A    | South Africa | 2009/02493 | 8/30/2007  | 2009/02493  | 3/31/2010  | Heat Treated Bacterins And Emulsion Vaccines Prepared From Such Heat Treated Bacterins                |
| 033517A    | South Africa | 2009/04756 | 11/23/2007 | 2009/04756  | 5/26/2010  | Methods Of Vaccine Administration                                                                     |
| 009576A    | Spain        | 98920693.3 | 5/29/1998  | 0988310     | 10/1/2003  | 4-substituted-9-deoxo-9a-aza-9a-homocerythromycin A Derivatives"                                      |
| 009576A    | Spain        | C200400012 | 5/7/2004   | C200400012  | 1/24/2006  | 4-substituted-9-deoxo-9a-aza-9a-homocerythromycin A Derivatives"                                      |
| 010216A    | Spain        | 00925528.2 | 5/18/2000  | EP1181290   | 7/2/2003   | Polymorphs Of A Crystalline Azobicyclo (2.2.2) Octan-3-amine Citrate And Their Pharmaceutical Compos  |
| 010278A    | Spain        | 99309409.3 | 11/25/1999 | 2251162     | 11/9/2005  | An Infectious CDNA Clone Of North American Porcine Reproductive And Respiratory Syndrome (PRRS) Viru  |
| 010298A    | Spain        | 99310514.7 | 12/23/1999 | 2251164     | 12/7/2005  | Adjuvants For Use In Vaccines                                                                         |
| 010298A    | Spain        | 05023118.2 | 10/24/2005 | 1616573     | 11/16/2011 | Adjuvants For Use In Vaccines                                                                         |
| 010299A    | Spain        | 99309202.2 | 11/18/1999 | ES2301230T3 | 2/20/2008  | Erysipelothrix Rhusiopathiae Antigens And Vaccine Compositions                                        |
| 010475A    | Spain        | 99954277.2 | 11/9/1999  | 1131331     | 3/3/2004   | 13-membered Azalides And Their Use As Antibiotic Agents                                               |
| 010610A    | Spain        | 00979850.5 | 11/30/2000 | EP1250343   | 6/25/2003  | Azalide Antibiotic Compositions                                                                       |

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|------------|---------|------------|------------|--------------|------------|-------------------------------------------------------------------------------------------------------|
| 010650A    | Spain   | 00944154.4 | 7/24/2000  | 2272299      | 10/4/2006  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                                |
| 011807A    | Spain   | 02780923.5 | 5/24/2002  | ES2307799T3  | 8/20/2008  | Triamide-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer  |
| 011858A    | Spain   | 02735755.7 | 6/7/2002   | 1474067      | 10/29/2008 | One Dose Vaccination Of Pigs With Mycoplasma Hyopneumoniae                                            |
| 023034A    | Spain   | 03739390.7 | 1/31/2003  | ES2321827T3  | 3/25/2009  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                                |
| 023034A    | Spain   | 09150098.3 | 1/6/2009   | 2050815      | 10/26/2011 | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                                |
| 023064A    | Spain   | 02781499.5 | 11/13/2002 | ES2307800T3  | 9/3/2008   | Formulations Of Cephalosporin                                                                         |
| 023106A    | Spain   | 02783358.1 | 11/4/2002  | 2358988      | 3/16/2011  | Benzamide, Heteroarylamine And Reverse Amides                                                         |
| 023152A    | Spain   | 02257719.1 | 11/7/2002  | 1310493      | 8/17/2005  | N-alkyl-adamantyl Triazinyl Benzamide Derivatives                                                     |
| 025496A    | Spain   | 04702384.1 | 1/15/2004  | ES2303046 T3 | 5/14/2008  | Canine Vaccines Against Bordetella Bronchiseptica                                                     |
| 025588A    | Spain   | 04731975.1 | 5/10/2004  | ES2281801T3  | 2/28/2007  | Benzamides Inhibitors Of The P2X7 Receptor                                                            |
| 025951A    | Spain   | 04801973.1 | 7/26/2004  | 1651263      | 11/24/2010 | Safe Mutant Viral Vaccines                                                                            |
| 027946A    | Spain   | 06795470.1 | 9/8/2006   | ES2328407T3  | 7/22/2009  | Solid Salt Forms Of A Pyrrole Substituted 2-indolinone                                                |
| 032220A    | Spain   | 05789769.6 | 9/23/2005  | 2370750      | 9/14/2011  | Canine Vaccines Against Bordetella Bronchiseptica                                                     |
| 032702A    | Spain   | 06795148.3 | 7/17/2006  | 2357679      | 1/26/2011  | Methods Of Vaccine Administration, New Feline Caliciviruses, And Treatments For Immunizing Animals A  |
| 009576A    | Sweden  | 98920693.3 | 5/29/1998  | 0988310      | 10/1/2003  | 4-substituted-9-deoxy-9a-aza-9a-homocerythromycin A Derivatives"                                      |
| 009576A    | Sweden  | 0490011.4  | 5/10/2004  | 0490011-4    | 8/16/2005  | 4-substituted-9-deoxy-9a-aza-9a-homocerythromycin A Derivatives"                                      |
| 010278A    | Sweden  | 99309409.3 | 11/25/1999 | 1018557      | 11/9/2005  | An Infectious CDNA Clone Of North American Porcine Reproductive And Respiratory Syndrome (PRRS) Virus |
| 010298A    | Sweden  | 99310514.7 | 12/23/1999 | 1023904      | 12/7/2005  | Adjuvants For Use In Vaccines                                                                         |
| 010298A    | Sweden  | 05023118.2 | 10/24/2005 | 1616573      | 11/16/2011 | Adjuvants For Use In Vaccines                                                                         |
| 010299A    | Sweden  | 99309202.2 | 11/18/1999 | 1027895      | 2/20/2008  | Erysipelothrix Rhusiopathiae Antigens And Vaccine Compositions                                        |
| 010475A    | Sweden  | 99954277.2 | 11/9/1999  | 1131331      | 3/3/2004   | 13-membered Azalides And Their Use As Antibiotic Agents                                               |

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|------------|-------------|--------------|------------|--------------|------------|------------------------------------------------------------------------------------------------------|
| 010610A    | Sweden      | 00979850.5   | 11/30/2000 | EP1250343    | 6/25/2003  | Azalide Antibiotic Compositions                                                                      |
| 010650A    | Sweden      | 00944154.4   | 7/24/2000  | 1200606      | 10/4/2006  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 011807A    | Sweden      | 02780923.5   | 5/24/2002  | 1404653      | 8/20/2008  | Triamide-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer |
| 011858A    | Sweden      | 02735755.7   | 6/7/2002   | 1474067      | 10/29/2008 | One Dose Vaccination Of Pigs With Mycoplasma Hyopneumoniae                                           |
| 023034A    | Sweden      | 03739390.7   | 1/31/2003  | 1476539      | 3/25/2009  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 023034A    | Sweden      | 09150098.3   | 1/6/2009   | 2050815      | 10/26/2011 | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 023064A    | Sweden      | 02781499.5   | 11/13/2002 | 1448234      | 9/3/2008   | Formulations Of Cephalosporin                                                                        |
| 025951A    | Sweden      | 04801973.1   | 7/26/2004  | 1651263      | 11/24/2010 | Safe Mutant Viral Vaccines                                                                           |
| 027946A    | Sweden      | 06795470.1   | 9/8/2006   | 1928858      | 7/22/2009  | Solid Salt Forms Of A Pyrrole Substituted 2-indolinone                                               |
| 032220A    | Sweden      | 05789769.6   | 9/23/2005  | 1799253      | 9/14/2011  | Canine Vaccines Against Bordetella Bronchiseptica                                                    |
| 032702A    | Sweden      | 06795148.3   | 7/17/2006  | 1912665      | 1/26/2011  | Methods Of Vaccine Administration, New Feline Caliciviruses, And Treatments For Immunizing Animals A |
| 009576A    | Switzerland | 98920693.3   | 5/29/1998  | 0988310      | 10/1/2003  | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 009576A    | Switzerland | C00988310/01 | 8/22/2005  | C00988310/01 | 4/30/2007  | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 010278A    | Switzerland | 99309409.3   | 11/25/1999 | 1018557      | 11/9/2005  | An Infectious CDNA Clone Of North American Porcine Reproductive And Respiratory Syndrome (PRRS) Viru |
| 010298A    | Switzerland | 99310514.7   | 12/23/1999 | 1023904      | 12/7/2005  | Adjuvants For Use In Vaccines                                                                        |
| 010298A    | Switzerland | 05023118.2   | 10/24/2005 | 1616573      | 11/16/2011 | Adjuvants For Use In Vaccines                                                                        |
| 010299A    | Switzerland | 99309202.2   | 11/18/1999 | 1027895      | 2/20/2008  | Erysipelothrix Rhusiopathiae Antigens And Vaccine Compositions                                       |
| 010475A    | Switzerland | 99954277.2   | 11/9/1999  | 1131331      | 3/3/2004   | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 010610A    | Switzerland | 00979850.5   | 11/30/2000 | EP1250343    | 6/25/2003  | Azalide Antibiotic Compositions                                                                      |
| 010650A    | Switzerland | 00944154.4   | 7/24/2000  | 1200606      | 10/4/2006  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |

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|------------|-------------|--------------|------------|--------------|------------|------------------------------------------------------------------------------------------------------|
| 011807A    | Switzerland | 02780923.5   | 5/24/2002  | 1404653      | 8/20/2008  | Triamide-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer |
| 011807A    | Switzerland | C01404653/01 | 2/20/2009  | C01404653/01 | 9/30/2010  | Triamide-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer |
| 011858A    | Switzerland | 02735755.7   | 6/7/2002   | 1474067      | 10/29/2008 | One Dose Vaccination Of Pigs With Mycoplasma Hyopneumoniae                                           |
| 023034A    | Switzerland | 03739390.7   | 1/31/2003  | 1476539      | 3/25/2009  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 023034A    | Switzerland | 09150098.3   | 1/6/2009   | 2050815      | 10/26/2011 | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 023064A    | Switzerland | 02781499.5   | 11/13/2002 | 1448234      | 9/3/2008   | Formulations Of Cephalosporin                                                                        |
| 025951A    | Switzerland | 04801973.1   | 7/26/2004  | 1651263      | 11/24/2010 | Safe Mutant Viral Vaccines                                                                           |
| 027946A    | Switzerland | 06795470.1   | 9/8/2006   | 1928858      | 7/22/2009  | Solid Salt Forms Of A Pyrrole Substituted 2-indolinone                                               |
| 032220A    | Switzerland | 05789769.6   | 9/23/2005  | 1799253      | 9/14/2011  | Canine Vaccines Against Bordetella Bronchiseptica                                                    |
| 032702A    | Switzerland | 06795148.3   | 7/17/2006  | 1912665      | 1/26/2011  | Methods Of Vaccine Administration, New Feline Caliciviruses, And Treatments For Immunizing Animals A |
| 009576A    | Taiwan      | 87109077     | 2/26/1999  | 149303       | 5/17/2002  | 4-substituted-9-deoxo-9a-aza-9a-homocrythromycin A Derivatives"                                      |
| 010298A    | Taiwan      | 88123144     | 12/28/1999 | 201096       | 8/27/2004  | Adjuvants For Use In Vaccines                                                                        |
| 010299A    | Taiwan      | 88120004     | 11/17/1999 | 183962       | 12/18/2003 | Erysipelothrix Rhusiopathiae Antigens And Vaccine Compositions                                       |
| 010475A    | Taiwan      | 88119885     | 11/15/1999 | 1243824      | 11/21/2005 | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 010475A    | Taiwan      | 92131563     | 11/11/2003 | 1243825      | 11/21/2005 | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 010610A    | Taiwan      | 90101152     | 1/18/2001  | 1318880      | 1/1/2010   | Azalide Antibiotic Compositions                                                                      |
| 010610A    | Taiwan      | 98131591     | 9/18/2009  | 1331527      | 10/11/2010 | Azalide Antibiotic Compositions                                                                      |
| 011807A    | Taiwan      | 91113664     | 6/21/2002  | 1313264      | 8/11/2009  | Triamide-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer |
| 011858A    | Taiwan      | 91114037     | 6/26/2002  | 1329514      | 9/1/2010   | One Dose Vaccination Of Pigs With Mycoplasma Hyopneumoniae                                           |

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|------------|------------|-------------|------------|------------|------------|-------------------------------------------------------------------------------------------------------|
| 023034A    | Taiwan     | 092102676   | 2/10/2003  | I341330    | 5/1/2011   | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                                |
| 023064A    | Taiwan     | 091133707   | 11/19/2002 | I248363    | 1/2/2006   | Formulations Of Cephalosporin                                                                         |
| 025246A    | Taiwan     | 92122872    | 8/20/2003  | I272105    | 2/1/2007   | Cattle Reproductive Disease Vaccines                                                                  |
| 025328A    | Taiwan     | 093109274   | 4/2/2004   | I353850    | 12/11/2011 | Microfluidized Oil-in-water Emulsions And Vaccine Compositions                                        |
| 025951A    | Taiwan     | 93122607    | 7/28/2004  | I342783    | 6/1/2011   | Safe Mutant Viral Vaccines                                                                            |
| 032251A    | Taiwan     | 94110524    | 4/1/2005   | I301067    | 9/21/2008  | Microfluidized Oil-In-Water Emulsions And Vaccine Compositions                                        |
| 032632A    | Taiwan     | 095105951   | 2/22/2006  | I366602    | 6/21/2012  | N Protein Mutants Of Porcine Reproductive And Respiratory Syndrome Virus                              |
| 033031A    | Taiwan     | 95145395    | 12/6/2006  |            |            | Marked Bovine Viral Diarrhea Virus Vaccines                                                           |
| 033250A    | Taiwan     | 096102865   | 1/25/2007  | I372631    | 9/21/2012  | Novel Glycolipid Adjuvant Compositions                                                                |
| 033251A    | Taiwan     | 96133683    | 9/10/2007  | I361077    | 4/1/2012   | Heat Treated Bacterins And Emulsion Vaccines Prepared From Such Heat Treated Bacterins                |
| 033517A    | Taiwan     | 096150374   | 12/26/2007 |            |            | Methods Of Vaccine Administration                                                                     |
| 009576A    | Tajikistan | EA199901015 | 5/29/1998  | EA002441   | 4/25/2002  | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                       |
| 010475A    | Tajikistan | EA200100416 | 11/9/1999  | 005156     | 12/30/2004 | 13-membered Azalides And Their Use As Antibiotic Agents                                               |
| 010475A    | Tajikistan | 200400701   | 6/21/2004  | 009729     | 2/28/2008  | 13-membered Azalides And Their Use As Antibiotic Agents                                               |
| 009576A    | Thailand   | 044223      | 6/3/1998   |            |            | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                       |
| 010278A    | Thailand   | 9901004426  | 11/25/1999 |            |            | An Infectious CDNA Clone Of North American Porcine Reproductive And Respiratory Syndrome (PRRS) Virus |
| 010298A    | Thailand   | 9901004950  | 12/28/1999 |            |            | Adjuvants For Use In Vaccines                                                                         |
| 010299A    | Thailand   | 9901004301  | 11/16/1999 |            |            | Erysipelothrix Rhusiopathiae Antigens And Vaccine Compositions                                        |
| 010475A    | Thailand   | 9901004239  | 11/11/1999 |            |            | 13-membered Azalides And Their Use As Antibiotic Agents                                               |
| 011858A    | Thailand   | 074922      | 7/1/2002   |            |            | One Dose Vaccination Of Pigs With Mycoplasma Hyopneumoniae                                            |
| 025246A    | Thailand   | 084728      | 8/25/2003  |            |            | Cattle Reproductive Disease Vaccines                                                                  |

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|------------|--------------|--------------|------------|---------------|------------|------------------------------------------------------------------------------------------------------|
| 032251A    | Thailand     | 099359       | 4/4/2005   |               |            | Microfluidized Oil-In-Water Emulsions And Vaccine Compositions                                       |
| 032632A    | Thailand     | 0601000771   | 2/22/2006  |               |            | N Protein Mutants Of Porcine Reproductive And Respiratory Syndrome Virus                             |
| 033031A    | Thailand     | 0601006079   | 12/6/2006  |               |            | Marked Bovine Viral Diarrhea Virus Vaccines                                                          |
| 033250A    | Thailand     | 0701000317   | 1/25/2007  |               |            | Novel Glycolipid Adjuvant Compositions                                                               |
| 033251A    | Thailand     | 0701004558   | 9/10/2007  |               |            | Heat Treated Bacterins And Emulsion Vaccines Prepared From Such Heat Treated Bacterins               |
| 010610A    | Turkey       | 00979850.5   | 11/30/2000 | TR200301180T4 | 6/25/2003  | Azalide Antibiotic Compositions                                                                      |
| 011807A    | Turkey       | 02780923.5   | 5/24/2002  | TR200807853T4 | 8/20/2008  | Triamide-substituted Indoles, Benzofurans And Benzothiophenes As Inhibitors Of Microsomal Triglycer  |
| 011858A    | Turkey       | 02735755.7   | 6/7/2002   | TR200809877T4 | 10/29/2008 | One Dose Vaccination Of Pigs With Mycoplasma Hyopneumoniae                                           |
| 023034A    | Turkey       | 03739390.7   | 1/31/2003  | TR200903997T4 | 3/25/2009  | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 023034A    | Turkey       | 09150098.3   | 1/6/2009   | TR201111672T4 | 10/26/2011 | Streptomyces Avermitilis Gene Directing The Ratio Of B2:B1 Avermectins                               |
| 023064A    | Turkey       | 02781499.5   | 11/13/2002 | TR200808262T4 | 9/3/2008   | Formulations Of Cephalosporin                                                                        |
| 025951A    | Turkey       | 04801973.1   | 7/26/2004  | TR201101790T4 | 11/24/2010 | Safe Mutant Viral Vaccines                                                                           |
| 027946A    | Turkey       | 06795470.1   | 9/8/2006   | TR200907226T4 | 7/22/2009  | Solid Salt Forms Of A Pyrrole Substituted 2-indolinone                                               |
| 032220A    | Turkey       | 05789769.6   | 9/23/2005  | TR201111206T4 | 9/14/2011  | Canine Vaccines Against Bordetella Bronchiseptica                                                    |
| 032702A    | Turkey       | 06795148.3   | 7/17/2006  | TR201102888T4 | 1/26/2011  | Methods Of Vaccine Administration, New Feline Caliciviruses, And Treatments For Immunizing Animals A |
| 009576A    | Turkmenistan | EA199901015  | 5/29/1998  | EA002441      | 4/25/2002  | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 010475A    | Turkmenistan | EA200100416  | 11/9/1999  | 005156        | 12/30/2004 | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 010475A    | Turkmenistan | 200400701    | 6/21/2004  | 009729        | 2/28/2008  | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 009576A    | Ukraine      | 99126736/M   | 5/29/1998  | 67744         | 7/15/2004  | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 010475A    | Ukraine      | 2001053376/M | 11/9/1999  | 70972         | 11/15/2004 | 13-membered Azalides And Their Use As Antibiotic Agents                                              |



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|------------|------------|---------------|------------|------------|------------|------------------------------------------------------------------------------------------------------|
| 011858A    | Ukraine    | 20031213200/M | 6/7/2002   | 78707      | 4/25/2007  | One Dose Vaccination Of Pigs With Mycoplasma Hyopneumoniae                                           |
| 025246A    | Ukraine    | a200501771    | 8/14/2003  | 94689      | 6/10/2011  | Cattle Reproductive Disease Vaccines                                                                 |
| 025951A    | Ukraine    | UA200600830   | 7/26/2004  | 85845      | 3/10/2009  | Safe Mutant Viral Vaccines                                                                           |
| 032220A    | Ukraine    | 200703828     | 9/23/2005  | 91197      | 7/12/2010  | Canine Vaccines Against Bordetella Bronchiseptica                                                    |
| 032251A    | Ukraine    | 200610518     | 3/24/2005  | 89631      | 2/25/2010  | Microfluidized Oil-In-Water Emulsions And Vaccine Compositions                                       |
| 032632A    | Ukraine    | a200709543    | 2/13/2006  | 89660      | 2/25/2010  | N Protein Mutants Of Porcine Reproductive And Respiratory Syndrome Virus                             |
| 033031A    | Ukraine    | a200807756    | 11/24/2006 | 95619      | 8/25/2011  | Marked Bovine Viral Diarrhea Virus Vaccines                                                          |
| 033250A    | Ukraine    | a200808748    | 1/15/2007  | 90569      | 5/11/2010  | Novel Glycolipid Adjuvant Compositions                                                               |
| 033251A    | Ukraine    | a200902099    | 8/30/2007  | 98115      | 4/25/2012  | Heat Treated Bacterins And Emulsion Vaccines Prepared From Such Heat Treated Bacterins               |
| 011807A    | Uruguay    | 27.360        | 6/27/2002  |            |            | Triamide-substituted Indoles, Benzofuranes And Benzothiophenes As Inhibitors Of Microsomal Triglycer |
| 009576A    | Uzbekistan | 9900888.2     | 5/29/1998  | IAP02644   | 2/14/2005  | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 010475A    | Uzbekistan | UZIAP20010404 | 11/9/1999  | IAP03121   | 6/27/2006  | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 009576A    | Venezuela  | 1161-98       | 6/2/1998   |            |            | 4-substituted-9-deoxo-9a-aza-9a-homoerythromycin A Derivatives"                                      |
| 010475A    | Venezuela  | 2393-99       | 11/19/1999 |            |            | 13-membered Azalides And Their Use As Antibiotic Agents                                              |
| 025246A    | Venezuela  | 1454-03       | 8/26/2003  |            |            | Cattle Reproductive Disease Vaccines                                                                 |
| 032251A    | Venezuela  | 649-05        | 4/1/2005   |            |            | Microfluidized Oil-In-Water Emulsions And Vaccine Compositions                                       |
| 032632A    | Venezuela  | 361-06        | 2/23/2006  |            |            | N Protein Mutants Of Porcine Reproductive And Respiratory Syndrome Virus                             |
| 033250A    | Venezuela  | 136-07        | 1/24/2007  |            |            | Novel Glycolipid Adjuvant Compositions                                                               |
| 033251A    | Venezuela  | 2007-1928     | 9/5/2007   |            |            | Heat Treated Bacterins And Emulsion Vaccines Prepared From Such Heat Treated Bacterins               |



## DECLARACION JURAMENTADA

Yo, Gelsomina Hohmann, por la presente certifico que la copia adjunta ha sido comparado con la Cesión de patente original entre **PAH USA 15 LLC** cambiando el nombre de "**PAH USA 15 LLC**" a "**ZOETIS P LLC**" firmado el 1 de febrero de 2013, y que dicha copia es copia fiel del original.

Fecha el 1 de abril de 2013, en Madison, New Jersey Estados Unidos de América.

Firmado: Gelsomina Hohmann

## RECONOCIMIENTO

Estado de New Jersey  
Condado de Morris

El 1 de abril de 2013, compareció personalmente Gelsomina Hohmann, conocido del suscrito, y conocido del suscrito como la persona descrita en el anterior instrumento y quien lo suscribió, la cual reconoció que suscribió el mismo por su propia voluntad y para los fines expuestos en el mismo.

(Firma ilegible)

MICHELLE L. McGOWAN  
Notario Público de New Jersey  
I.D. No 2409814  
Mi comisión vence el 22 de junio de 2016



**ESTADO DE DELAWARE**

**EL PRIMER ESTADO**

Yo, JEFFREY W. BULLOCK, secretario del Estado de Delaware, certifico que los documentos adjuntos son copia fiel y correcta del certificado de modificación de "PAH USA 15 LLC", cambiando su nombre de "PAH USA 15 LLC" a "ZOETIS P LLC", presentado en la oficina el 1 de febrero de 2013, a las 1:17 p.m. en punto.

Sello secretario de estado de Delaware

5114643 8100  
130120066

Es posible certificar este certificado en línea  
En [corp.delaware.gov/authver.shtml](http://corp.delaware.gov/authver.shtml)

Por: (firma ilegible)  
Autenticación No. 0187092  
Fecha 02-01-13

Estado de Delaware  
Secretaria de Estado  
División de Compañías  
Elaborado: 02-01-2013 017: PM  
Presentado: 02-01-2013 01:08 pm  
SRV 130120066- 5114643 Firmado



**ESTADO DE DELAWARE**  
**CERTIFICADO DE MODIFICACION**

1. Nombre de la sociedad de responsabilidad limitada: PAH USA 15 LLC
2. El certificado de modificación de responsabilidad limitada se modificara de la siguiente manera:

Parágrafo primero del certificado de modificación relacionada con el nombre de la empresa se modifica de la siguiente manera:

El nombre del sociedad de responsabilidad limitada es: **Zoetis P LLC**

En fe de lo cual, los abajo firmantes han suscrito este certificado el 1 de Febrero de 2013.

Por: (firma ilegible)  
Persona Autorizada

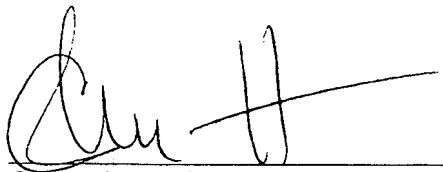
Nombre: Brenda L. Santuccio

00

**AFFIDAVIT**

I, Gelsomina Hohmann, do hereby certify that the attached copy has been compared with the original Certificate of Amendment of "PAH USA 15 LLC", changing its name from "PAH USA 15 LLC" to ZOETIS P LLC", filed February 1, 2013, and that the said copy is a true copy of the original.

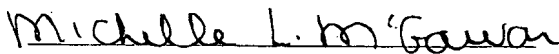
Dated this 1<sup>st</sup> day of April, 2013, at Madison, New Jersey, United States of America.

  
Gelsomina Hohmann

**ACKNOWLEDGMENT**

State of New Jersey   )  
                                      )  
County of Morris        )

On this 1<sup>st</sup> day of April, 2013, before me personally appeared Gelsomina Hohmann, to me known and known to me to be the individual described in and who executed the foregoing instrument, and she acknowledged to me that she executed the same.

  
Notary Public

**MICHELLE L. MCGOWAN**  
**NOTARY PUBLIC OF NEW JERSEY**  
**I.D. # 2409814**  
**My Commission Expires 6/22/2016**

# Delaware

PAGE 1

*The First State*

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "PAH USA 15 LLC", CHANGING ITS NAME FROM "PAH USA 15 LLC" TO "ZOETIS P LLC", FILED IN THIS OFFICE ON THE FIRST DAY OF FEBRUARY, A.D. 2013, AT 1:17 O'CLOCK P.M.

5114643 8100

130120066

You may verify this certificate online  
at [corp.delaware.gov/authvor.shtml](http://corp.delaware.gov/authvor.shtml)



  
Jeffrey W. Bullock, Secretary of State  
AUTHENTICATION: 0187092

DATE: 02-01-13

State of Delaware  
Secretary of State  
Division of Corporations  
Delivered 01:17 PM 02/01/2013  
FILED 01:17 PM 02/01/2013  
SRV 130120066 - 5114643 FILE

STATE OF DELAWARE  
CERTIFICATE OF AMENDMENT

1. Name of Limited Liability Company: PAH USA 15 LLC

2. The Certificate of Formation of the limited liability company is hereby amended as follows:

Paragraph One of the Certificate of Formation relating to the name of the company is hereby amended to read as follows:

The name of the limited liability company is  
Zoetis P LLC.

IN WITNESS WHEREOF, the undersigned have executed this Certificate on  
the 01 day of February, A.D. 2013.

By: Brenda L. Santuccio  
Authorized Person(s)

Name: Brenda L. Santuccio  
Print or Type