

**FIRST AMENDMENT  
TO  
SECOND AMENDED AND RESTATED LICENSE AGREEMENT**

**THIS FIRST AMENDMENT TO SECOND AMENDED AND RESTATED LICENSE AGREEMENT** (this “**Amendment**”) is made as of September 26, 2017 (the “**Amendment Effective Date**”) by and between Gilead Sciences, Inc., a Delaware, USA corporation having its principle place of business at 333 Lakeside Drive, Foster City, California 94404 (“**Gilead**”) and Medicines Patent Pool, a non-profit foundation registered under the laws of Switzerland having a principal place of business at Rue de Varembe, 7, 1202 Geneva, Switzerland (“**MPP**”). Gilead and MPP are each referred to individually herein as a “**Party**” and collectively as the “**Parties.**”

**WHEREAS**, Gilead and MPP entered into that certain Second Amended and Restated License Agreement effective as of June 10, 2015 (the “**Agreement**”), pursuant to which Gilead granted MPP certain licenses with respect to its proprietary pharmaceutical agents tenofovir alafenamide, tenofovir disoproxil fumarate, elvitegravir, and cobicistat for treatment of HIV and HBV in developing world countries; and

**WHEREAS**, Gilead and MPP wish to amend the Agreement to add certain licenses with respect to Gilead’s proprietary pharmaceutical agent bicitgravir for treatment of HIV in developing world countries, in accordance with the terms and conditions of this Amendment, all as more fully described below.

**NOW, THEREFORE**, Gilead and MPP agree as follows:

1. Definitions.

- a. The definitions of the below terms are hereby deleted from Section 1 of the Agreement and replaced as follows:

“**Active Pharmaceutical Ingredient**” or “**API**” shall mean one or more of the following active pharmaceutical ingredients: tenofovir alafenamide (“**TAF**”); tenofovir disoproxil fumarate (“**TDF**”); elvitegravir (“**EVG**”); cobicistat (“**COBI**”); and bicitgravir (“**BIC**”).

“**Combination Products**” shall mean BIC Combination Products, COBI Combination Products, EVG Combination Products, TAF Combination Products, and the Quad Products.

“**Patents**” shall mean (a) the patents and patent applications set forth in Appendix 2 hereto and (b) any other patents or patent applications (and resulting patents therefrom) that are in the Territory and owned or controlled by Gilead and its Affiliates during the term of this Agreement, including to the extent falling within clause (b) of this definition (i) those patents and patent applications exclusively licensed by Gilead from Japan Tobacco pursuant to the Japan Tobacco Agreement and (ii) those patents and patent applications claiming improvements or modifications to the manufacture of API, in the case of each patent and patent application referenced in clauses (a) and (b) solely to the extent necessary for MPP

to grant sublicenses of the license rights granted in Article 2 hereof to Sublicensees under a Sublicense Agreement.

“**Product**” shall mean TAF Product, TAF Combination Product, TDF Product, TDF Combination Product, COBI Product, COBI Combination Product, EVG Product, EVG Combination Product, BIC Product, BIC Combination Product, and the Quad Products.

“**Territory**” shall mean the TDF-TAF Territory, the COBI Territory, the EVG-Quad Territory, and the BIC Territory.

- b. The below terms are hereby added to Section 1 of the Agreement and are defined as follows:

“**BIC Combination Product**” shall mean a pharmaceutical product containing BIC in combination with any other active pharmaceutical ingredient other than TAF, TDF, EVG, or COBI (in each case subject to the restrictions set forth in Section 2.4(b)(iv)), including any co formulation, co-packaged product, bundled product, or other type of combination product.

“**BIC Product**” shall mean a formulated and finished pharmaceutical product containing BIC as its sole active pharmaceutical ingredient.

“**BIC Territory**” shall mean those countries listed on Appendix 7.

- c. All capitalized terms not otherwise defined in this Amendment shall have the meanings assigned to them in the Agreement.

## 2. License Grants.

- a. For clarity, the licenses granted by Gilead to MPP in Section 2.2 of the Agreement with respect to API hereby include BIC, in addition to TAF, TDF, EVG, and COBI, pursuant to Section 1(a) of this Amendment.
- b. Section 2.2 of the Agreement is hereby deleted and replaced with the following:

### “2.2 API Licenses.

(a) For India. Subject to the terms and conditions of this Agreement, Gilead hereby grants to MPP a royalty-free, non-exclusive, non-transferable license under the Licensed Technology to (i) make API in India solely for the purposes of exercising the licenses described in this Section 2.2(a); (ii) offer for sale and sell such API to Licensed Product Suppliers in India, China and South Africa for use solely for purposes set forth in the Licensed Product Suppliers’ direct or indirect license from Gilead as set forth in the definition of Licensed Product Suppliers; (iii) import Licensed API into India for purposes of exercising the licenses described in Section 2.3(a) or (iv) use API for internal use in the applicable Territory. MPP has the right to grant sublicenses under the foregoing license solely to Sublicensees located in India pursuant to the terms and conditions of the applicable Sublicense Agreement, and the sublicense rights granted to each such

Sublicensee in India shall be non-sublicensable by such Sublicensee except as expressly provided under the applicable Sublicense Agreement.

(b) For China. Subject to the terms and conditions of this Agreement, Gilead hereby grants to MPP a royalty-free, non-exclusive, non-transferable license under the Patents to (i) make API in China solely for the purposes of exercising the licenses described in this Section 2.2(b); (ii) offer for sale and sell such API to Licensed Product Suppliers in India, China and South Africa for use solely for purposes set forth in the Licensed Product Suppliers' direct or indirect license from Gilead as set forth in the definition of Licensed Product Suppliers; (iii) import Licensed API into China for purposes of exercising the licenses described in Section 2.3(b) or (iv) use API for internal use in the applicable Territory. MPP has the right to grant sublicenses under the foregoing license solely to Sublicensees located in China pursuant to the terms and conditions of the applicable Sublicense Agreement, and the sublicense rights granted to each such Sublicensee in China shall be non-sublicensable by such Sublicensee except as expressly provided under the applicable Sublicense Agreement.

(c) For South Africa. Subject to the terms and conditions of this Agreement, Gilead hereby grants to MPP a royalty-free, non-exclusive, non-transferable license under the Licensed Technology (i) make API in South Africa solely for the purposes of exercising the licenses described in this Section 2.2(c); (ii) offer for sale and sell such API to Licensed Product Suppliers in India, China and South Africa for use solely for purposes set forth in the Licensed Product Suppliers' direct or indirect license from Gilead as set forth in the definition of Licensed Product Suppliers; (iii) import Licensed API into South Africa for purposes of exercising the licenses described in Section 2.3(c) or (iv) use API for internal use in the applicable Territory. MPP has the right to grant sublicenses under the foregoing license solely to Sublicensees located in South Africa pursuant to the terms and conditions of the applicable Sublicense Agreement, and the sublicense rights granted to each such Sublicensee in South Africa shall be non-sublicensable by such Sublicensee except as expressly provided under the applicable Sublicense Agreement.

(d) The licenses granted in this Section 2.2 does not include, expressly or by implication, a license under any Gilead intellectual property right to manufacture, sell or distribute any active pharmaceutical ingredient owned or controlled by Gilead other than TAF, TDF, EVG, COBI, and BIC.”

c. Section 2.3 of the Agreement is hereby deleted and replaced with the following:

“(a) To Sublicensees in India. Subject to the terms and conditions of this Agreement, Gilead hereby grants to MPP a non-exclusive, non-transferable license under the Licensed Technology solely to make Product in India and sell, have sold, offer for sale, export from India and import (i) TAF Product, TAF Combination Products, TDF Product and TDF Combination Products in the Field in the TDF-TAF Territory, (ii) COBI Product and COBI Combination Products in the COBI Territory, (iii) EVG Product, EVG Combination Products and the Quad Products in the Field in the EVG-Quad Territory, and (iv) BIC Product and BIC Combination Products in the BIC Territory; provided that in each case such

Products shall be made only from Licensed API. The licenses granted in this Section 2.3(a) do not include, expressly or by implication, a license under any Gilead intellectual property right to manufacture, sell or distribute any product containing active pharmaceutical ingredients owned or controlled by Gilead other than Products containing TAF, TDF, EVG, COBI, and BIC. The licenses granted under this Section 2.3(a) shall not extend to any active pharmaceutical ingredient included within a Product other than TAF, TDF, EVG, COBI, and BIC.

(b) To Sublicensees in China. Subject to the terms and conditions of this Agreement, Gilead hereby grants to MPP a non-exclusive, non-transferable license under the Patents solely to make Product in China and sell, have sold, offer for sale, export from China and import (i) TAF Product, TAF Combination Products, TDF Product and TDF Combination Products in the Field in the TDF-TAF Territory, and (ii) COBI Product and COBI Combination Products in the COBI Territory, (iii) EVG Product, EVG Combination Products and the Quad Products in the Field in the EVG-Quad Territory, and (iv) BIC Product and BIC Combination Products in the BIC Territory; provided that in each case such Products shall be made only from Licensed API. The licenses granted in this Section 2.3(b) do not include, expressly or by implication, a license under any Gilead intellectual property right to manufacture, sell or distribute any product containing active pharmaceutical ingredients owned or controlled by Gilead other than Products containing TAF, TDF, EVG, COBI, and BIC. The licenses granted under this Section 2.3(b) shall not extend to any active pharmaceutical ingredient included within a Product other than TAF, TDF, EVG, COBI, and BIC.

(c) To Sublicensees in South Africa. Subject to the terms and conditions of this Agreement, Gilead hereby grants to MPP a non-exclusive, non-transferable license under the Licensed Technology solely to make Product in South Africa and sell, have sold, offer for sale, export from South Africa and import (i) TAF Product, TAF Combination Products, TDF Product and TDF Combination Products in the Field in the TDF-TAF Territory, (ii) COBI Product and COBI Combination Products in the COBI Territory, (iii) EVG Product, EVG Combination Products and the Quad Products in the Field in the EVG-Quad Territory, and (iv) BIC Product and BIC Combination Products in the BIC Territory; provided that in each case such Products shall be made only from Licensed API. The licenses granted in this Section 2.3(c) do not include, expressly or by implication, a license under any Gilead intellectual property right to manufacture, sell or distribute any product containing active pharmaceutical ingredients owned or controlled by Gilead other than Products containing TAF, TDF, EVG, COBI, and BIC. The licenses granted under this Section 2.3(c) shall not extend to any active pharmaceutical ingredient included within a Product other than TAF, TDF, EVG, COBI, and BIC.

(d) MPP shall have the right to grant sublicenses under the foregoing license grant solely to Sublicensees pursuant to the terms and conditions of the applicable Sublicense Agreement, and the sublicense rights granted to each such Sublicensee shall be royalty bearing and non-sublicensable by such Sublicensee except as expressly provided under the applicable Sublicense Agreement.”

d. The following language is hereby added to the Agreement as Section 2.4(b)(iv):

“Each Sublicensee will be allowed to manufacture and sell BIC in combination with other active pharmaceutical ingredients in the BIC Territory, provided in each case (A) such Sublicensee has the legal right to manufacture and sell such other active pharmaceutical ingredients in the applicable country in the BIC Territory, and (B) such manufacture and sale is in accordance with the licenses granted in the Sublicense Agreement.”

- e. Section 2.4(e) of the Agreement is hereby deleted and replaced with the following:

“No Other Licenses. Except as expressly set forth in this Agreement, Gilead does not grant any license to MPP under any of its intellectual property rights (including, without limitation, patents or rights to any proprietary compounds or drug substances other than API).”

3. BIC Sublicense Amendment. The following language is hereby added to the Agreement as Section 2.1(f):

“MPP shall have the right to execute an amendment to a Sublicense Agreement with a Sublicensee, pursuant to which MPP shall grant such Sublicensee a sublicense under the rights granted to MPP with respect to BIC, BIC Product, and BIC Combination Products, according to the terms of the applicable form amendment attached hereto as Appendix 8 (each, a “**Form BIC Sublicense Amendment**”, and once fully executed, a “**BIC Sublicense Amendment**”). The form amendments attached hereto as Appendix 8-A, Appendix 8-B, Appendix 8-C, and Appendix 8-D correspond to the Form Sublicense Agreements attached hereto as Appendix 6-A, Appendix 6-B, Appendix 6-C, and Appendix 6-D, respectively. Gilead will be a party to each BIC Sublicense Amendment. For clarity, unless and until a particular Sublicensee enters into a BIC Sublicense Amendment corresponding to such Sublicensee’s Sublicense Agreement, such Sublicensee will have no rights or licenses with respect to BIC, BIC Product and/or BIC Combination Products. MPP will not modify the terms and conditions of such form amendments or BIC Sublicense Amendments without Gilead’s written consent, and Gilead will have no obligation to enter into any BIC Sublicense Amendment that varies from the applicable form amendment. Gilead will have the right to provide copies of any BIC Sublicense Amendment to Japan Tobacco. All conditions and restrictions set forth in each BIC Sublicense Amendment shall apply to the license rights granted to MPP hereunder as if fully set forth herein, except as expressly provided for otherwise in this Agreement.”

4. Appendices. Appendices 1, 2, 3, 4, and 5 of the Agreement are hereby deleted and replaced with the new Appendices 1, 2, 3, 4, and 5 attached to this Amendment, respectively. Appendices 7, 8-A, 8-B, 8-C, and 8-D attached to this Amendment are hereby added to the Agreement as Appendices 7, 8-A, 8-B, 8-C, and 8-D, respectively.

5. Miscellaneous. This Amendment embodies the entire understanding of the Parties with respect to the subject matter hereof and supersedes all previous communications, representations or understandings, and agreements, whether oral or written, between the Parties relating to the subject matter hereof. Except as expressly amended by this Amendment, the terms and conditions of the Agreement will remain in full force and effect. This Amendment shall be effective as of the Amendment Effective Date, and may not be modified except by written agreement between the Parties. This Amendment will be governed by and construed under the laws of England, without regard to its choice of law principles, and any dispute that arises hereunder shall be resolved by binding arbitration as set forth in Section 8.6 of the Agreement.

*[signatures appear on the following page]*

IN WITNESS WHEREOF, the Parties have executed this Amendment by their duly authorized representatives as of the Amendment Effective Date.

GILEAD SCIENCES, INC.

By: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Clifford M. Samuel  
Senior Vice President,  
Access Operations & Emerging Markets

MEDICINES PATENT POOL

By: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Jan Park  
General Counsel

Medicines Patent Pool  
Rue de Varembe 7  
1202 Geneva  
Switzerland

**APPENDIX 1**  
Countries in the TDF-TAF Territory

- |                              |                             |                                       |
|------------------------------|-----------------------------|---------------------------------------|
| 1. Afghanistan               | 40. Georgia                 | 79. Papua New Guinea                  |
| 2. Angola                    | 41. Ghana                   | 80. Philippines                       |
| 3. Anguilla                  | 42. Grenada                 | 81. Rwanda                            |
| 4. Antigua and Barbuda       | 43. Guatemala               | 82. Saint Kitts and Nevis             |
| 5. Armenia                   | 44. Guinea                  | 83. Saint Lucia                       |
| 6. Aruba                     | 45. Guinea-Bissau           | 84. Saint Vincent & the<br>Grenadines |
| 7. Bahamas                   | 46. Guyana                  | 85. Samoa                             |
| 8. Bangladesh                | 47. Haiti                   | 86. São Tomé and Príncipe             |
| 9. Barbados                  | 48. Honduras                | 87. Senegal                           |
| 10. Belarus                  | 49. India                   | 88. Seychelles                        |
| 11. Belize                   | 50. Indonesia               | 89. Sierra Leone                      |
| 12. Benin                    | 51. Jamaica                 | 90. Solomon Islands                   |
| 13. Bhutan                   | 52. Kazakhstan              | 91. Somalia                           |
| 14. Bolivia                  | 53. Kenya                   | 92. South Africa                      |
| 15. Botswana                 | 54. Kiribati                | 93. South Sudan                       |
| 16. British Virgin Islands   | 55. Kyrgyzstan              | 94. Sri Lanka                         |
| 17. Burkina Faso             | 56. Lao, People's Dem. Rep. | 95. Sudan                             |
| 18. Burundi                  | 57. Lesotho                 | 96. Surinam                           |
| 19. Cambodia                 | 58. Liberia                 | 97. Swaziland                         |
| 20. Cameroon                 | 59. Madagascar              | 98. Syrian Arab Republic              |
| 21. Cape Verde               | 60. Malawi                  | 99. Tajikistan                        |
| 22. Central African Republic | 61. Malaysia                | 100. Tanzania, U. Rep. of             |
| 23. Chad                     | 62. Maldives                | 101. Thailand                         |
| 24. Comoros                  | 63. Mali                    | 102. Timor-Leste                      |
| 25. Congo, Rep               | 64. Mauritania              | 103. Togo                             |
| 26. Congo, Dem. Rep. of the  | 65. Mauritius               | 104. Tonga                            |
| 27. Côte d'Ivoire            | 66. Moldova, Rep. of        | 105. Trinidad and Tobago              |
| 28. Cuba                     | 67. Mongolia                | 106. Turkmenistan                     |
| 29. Djibouti                 | 68. Montserrat              | 107. Turks and Caicos                 |
| 30. Dominica                 | 69. Mozambique              | 108. Tuvalu                           |
| 31. Dominican Republic       | 70. Myanmar                 | 109. Uganda                           |
| 32. Ecuador                  | 71. Namibia                 | 110. Ukraine                          |
| 33. El Salvador              | 72. Nauru                   | 111. Uzbekistan                       |
| 34. Equatorial Guinea        | 73. Nepal                   | 112. Vanuatu                          |
| 35. Eritrea                  | 74. Nicaragua               | 113. Vietnam                          |
| 36. Ethiopia                 | 75. Niger                   | 114. Yemen                            |
| 37. Fiji Islands             | 76. Nigeria                 | 115. Zambia                           |
| 38. Gabon                    | 77. Pakistan                | 116. Zimbabwe                         |
| 39. Gambia                   | 78. Palau                   |                                       |



## APPENDIX 2

### Patents

#### TDF Patents

##### (221) Title: NUCLEOTIDE ANALOGS

Country	Status	Filing Date	Application No.	Patent No.	Issue Date
China (People's Republic)	Granted	7/25/1997	200810083233.70	200810083233.70	12/12/2012
China (People's Republic)	Granted	7/25/1997	97197460.8	ZL97197460.8	4/30/2008
India	Pending	7/25/1997	2076/DEL/1997		

##### (230) Title: NUCLEOTIDE ANALOG COMPOSITION AND SYNTHESIS METHOD

SubCase	Status	Filing Date	Application No.	Patent No.	Issue Date
China (People's Republic)	Granted	7/23/1998	200510099916.80	ZL200510099916.8	9/24/2008
China (People's Republic)	Granted	7/23/1998	200410046290X	200410046290X	4/19/2006
India	Pending	7/24/1998	896/DEL/2002		
India	Pending	7/24/1998	963/DEL/2002		
India	Pending	7/24/1998	1362/DEL/2004		
India	Granted	7/24/1998	2174/DEL/1998	190780	3/15/2004
Indonesia	Granted	7/23/1998	W-991548	7658	4/11/2002

##### (270) Title: COMPOSITIONS AND METHODS FOR COMBINATION ANTIVIRAL THERAPY

Country	Status	Filing Date	Application No.	Patent No.	Issue Date
Armenia	Granted	1/13/2004	200501134	15145	6/13/2011
China (People's Republic)	Published	1/13/2004	201510697340.90		
China (People's Republic)	Granted	1/13/2004	201210094391.90	ZL201210094391.9	2/24/2016
China (People's Republic)	Granted	1/13/2004	200480002190.50	200480002190.50	6/6/2012
Eurasian Patent Organization	Published	1/13/2004	201100293		
Eurasian Patent Organization	Granted	1/13/2004	200501134	15145	6/13/2011
Kazakhstan	Granted	1/13/2004	200501134	15145	6/13/2011
Kazakhstan	Pending		200501134 (PTE Application)		

<b>Kyrgyz Republic</b>	Granted	1/13/2004	200501134	15145	6/13/2011
<b>Kyrgyz Republic</b>	Granted		200501134 (PTE Application)	15145	5/31/2012
<b>Moldova</b>	Granted	1/13/2004	200501134	15145	6/13/2011
<b>Tajikistan</b>	Granted	1/13/2004	200501134	15145	6/13/2011
<b>Turkmenistan</b>	Granted	1/13/2004	200501134	15145	6/13/2011
<b>Turkmenistan</b>	Pending		200501134 (PTE Application)		

(676) Title: **METHOD AND COMPOSITION FOR PHARMACEUTICAL PRODUCT**

Country	Status	Filing Date	Application No.	Patent No.	Issue Date
<b>China (People's Republic)</b>	Granted	6/13/2006	200680026180.40	ZL200680026180.4	10/7/2015

(677) Title: **A PHARMACEUTICAL COMPOSITION, A METHOD OF PREPARING THEREOF, AND A METHOD OF TREATING VIRAL DISEASES USING SAID COMPOSITION**

Country	Status	Filing Date	Application No.	Patent No.	Issue Date
<b>Armenia</b>	Granted	6/13/2006	200800033	17764	3/29/2013
<b>China (People's Republic)</b>	Granted	6/13/2006	200680026866.30	200680026866.30	3/27/2013
<b>Eurasian Patent Organization</b>	Published	6/13/2006	201201265		
<b>Eurasian Patent Organization</b>	Granted	6/13/2006	200800033	17764	3/29/2013
<b>India</b>	Pending	6/13/2006	9661/DELNP/2007		
<b>Kazakhstan</b>	Granted	6/13/2006	200800033	17764	3/29/2013
<b>Kyrgyz Republic</b>	Granted	6/13/2006	200800033	17764	3/29/2013
<b>Moldova</b>	Granted	6/13/2006	200800033	17764	3/29/2013
<b>South Africa</b>	Granted	6/13/2006	2008/00297	2008/00297	4/28/2010
<b>Tajikistan</b>	Granted	6/13/2006	200800033	17764	3/29/2013
<b>Turkmenistan</b>	Granted	6/13/2006	200800033	17764	3/29/2013

**TAF Patents**

(249) Title: **PRODRUGS OF PHOSPHONATE NUCLEOTIDE ANALOGUES AND METHODS FOR SELECTING AND MAKING SAME**

Country	Status	Application No.	Filing Date	Patent No.	Issue Date
<b>African Intellectual Property</b>	Granted	1200300003	7/20/2001	12393	12/29/2003

<b>Organization (OAPI)</b>						
<b>African Regional Industrial Property Organization</b>	Granted	2003/002724	7/20/2001	AP 1466		9/22/2005
<b>Anguilla</b>	Granted	AI/A/2015/00173	7/20/2001	AI/A/2015/00173		11/2/2015
<b>China (People's Republic)</b>	Granted	1813161.1	7/20/2001	ZL01813161.1		12/27/2006
<b>China (People's Republic)</b>	Granted	200410097845.30	7/20/2001	ZL200410097845.3		7/16/2008
<b>Congo, Democratic Republic of</b>	Granted	NP/002/EXT/2016	7/20/2001	2016/4386		11/11/2016
<b>Ethiopia</b>	Granted	ET/PI/15/184	7/20/2001	135		5/25/2016
<b>Eurasian Patent Organization</b>	Granted	200300188	7/20/2001	4926		10/28/2004
<b>Falkland Islands (Malvinas)</b>	Granted		7/20/2001	15365		8/25/2015
<b>Fiji</b>	Published	1214	7/20/2001			
<b>Grenada</b>	Granted	7 of 2015	7/20/2001	7 of 2015		10/6/2015
<b>Guyana</b>	Published	1641	7/20/2001			
<b>Haiti</b>	Pending		7/20/2001			
<b>India</b>	Granted	9/MUMNP/2003	7/20/2001	208435		7/27/2007
<b>India</b>	Granted	00529/MUMNP/2006	7/20/2001	241597		7/14/2010
<b>Indonesia</b>	Granted	W-00200602129	7/20/2001	IDP0022897		2/20/2009
<b>Indonesia</b>	Granted	W-00200804005	7/20/2001	IDP000040148		2/15/2016
<b>Indonesia</b>	Granted	W00200300261	7/20/2001	IDP0022911		2/20/2009
<b>Jamaica</b>	Pending	18/1/5695	7/20/2001			
<b>Kiribati</b>	Granted	14/15	7/20/2001	14/15		10/7/2015
<b>Montserrat</b>	Granted	1961695.2	7/20/2001	1301519		9/23/2015
<b>Nepal</b>	Pending	669	7/20/2001			
<b>Seychelles</b>	Granted	1301519	7/20/2001	1301519		5/25/2016
<b>Sierra Leone</b>	Pending	EP1301519	7/20/2001			
<b>Solomon Islands</b>	Granted	J37/371	7/20/2001	J37/371		3/3/2016
<b>South Africa</b>	Granted	2002/10271	7/20/2001	2002/10271		12/31/2003
<b>Turks and Caicos Islands</b>	Pending	10213	7/20/2001			
<b>Tuvalu</b>	Granted		2/25/2015	TVP1301519		1/6/2016
<b>Vietnam</b>	Granted	1-2002-01193	7/20/2001	8475		5/24/2010
<b>Virgin Islands (British)</b>	Granted	414/5/2015	7/20/2001	414/5/2015		12/1/2015

(872) Title: TENOFOVIR ALAFENAMIDE HEMIFUMARATE

Country	Status	Application No.	Filing Date	Patent No.	Issue Date
<b>African Intellectual Property Organization (OAPI)</b>	Granted	1201400057	8/15/2012	17070	6/29/2015
<b>African Regional Industrial Property Organization</b>	Granted	AP/P/2014/007437	8/15/2012	3639	3/31/2016
<b>Bahamas</b>	Granted	2441	8/15/2012	2441	6/19/2014
<b>Bolivia</b>	Pending	SP-0277-2012	8/15/2012		
<b>China (People's Republic)</b>	Published	201280039891.00	8/15/2012		
<b>Ecuador</b>	Pending	SP-14-13206-PCT	8/15/2012		
<b>El Salvador</b>	Pending	E-4659-2014	8/15/2012		
<b>Eurasian Patent Organization</b>	Published	201490208	8/15/2012		
<b>India</b>	Pending	1012/DELNP/2014	8/15/2012		
<b>Indonesia</b>	Published	P00201400805	8/15/2012		
<b>Moldova</b>	Pending	A20140011	8/15/2012		
<b>Pakistan</b>	Pending	539/2012	8/15/2012		
<b>Philippines</b>	Granted	1-2014-500349	8/15/2012	1-2014-500349	2/29/2016
<b>South Africa</b>	Allowed	2014/00582	8/15/2012		
<b>Thailand</b>	Pending	1401000784	8/15/2012		
<b>Vietnam</b>	Pending	1-2014-00440	8/15/2012		

(877) Title: METHODS FOR PREPARING ANTI-VIRAL NUCLEOTIDE ANALOGS

Country	Status	Application No.	Filing Date	Patent No.	Issue Date
<b>Bahamas</b>	Granted	2455	10/3/2012	2455	6/24/2014
<b>Bolivia</b>	Granted	SP-0352-2012	10/3/2012	6385-B	11/26/2014
<b>China (People's Republic)</b>	Published	201280048965.70	10/3/2012		
<b>Ecuador</b>	Published	IEPI-2014-74	10/3/2012		
<b>El Salvador</b>	Published	E-4696/2014	10/3/2012		
<b>Eurasian Patent Organization</b>	Allowed	201490753	10/3/2012		
<b>India</b>	Published	2953/DELNP/2014	10/3/2012		
<b>Pakistan</b>	Pending	671/2012	10/3/2012		

EVG Patents

(JF-0136) Title: COMPOUND AND METHOD OF USE

Country	Status	Application No.	Filing Date	Patent No.
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<b>Bolivia</b>	Pending	SP-230265	11/18/2003		
<b>China (People's Republic)</b>	Granted	200380100277.10	11/20/2003	ZL200380100277.1	3/19/2008
<b>India</b>	Granted	01316/CHENP/2004	11/20/2003	245833	2/3/2011
<b>Indonesia</b>	Granted	WO00200401542	11/20/2003	P0023507	6/1/2009
<b>Nigeria</b>	Granted	424/2003	11/19/2003	RP.15779	10/20/2004
<b>Philippines</b>	Granted	1-2004-500895	11/20/2003	1-2004-500895	8/20/2008
<b>South Africa</b>	Granted	2004/4537	11/20/2003	2004/4537	8/31/2005
<b>Thailand</b>	Pending	301004379	11/20/2003		
<b>Vietnam</b>	Granted	1-2004-00605	11/20/2003	1-0011884	10/7/2013

(JF-0179) Title: CRYSTALLINE FORM

Country	Status	Application No.	Filing Date	Patent No.	
<b>Bolivia</b>	Pending	SP-250121	5/19/2005		
<b>China (People's Republic)</b>	Granted	200580016142.60	5/19/2005	ZL200580016142.6	5/26/2010
<b>India</b>	Pending	357/CHENP/2010	5/19/2005		
<b>Philippines</b>	Granted	1-2006-502297	5/19/2005	1-2006-502297	11/19/2010
<b>South Africa</b>	Granted	2006/10647	5/19/2005	2006/10647	6/25/2008
<b>Thailand</b>	Pending	100718	5/19/2005		

(JF-0193) Title: MANUFACTURING PROCESS: ROUTE D AND F

Country	Status	Application No.:	Filing Date	Patent No.	Issue Date
<b>China</b>	Granted	200780016151.40	3/6/2007	200780016151.40	2/6/2013
<b>India</b>	Granted	5344/CHENP/2008	3/6/2007	258895	2/13/2014
<b>India</b>	Pending	532/CHENP/2014	3/6/2007		

(JF-0192) Title: MANUFACTURING PROCESS: ROUTE C AND E

Country	Status	Application No.	Filing Date	Patent No.	Issue Date
<b>African Regional Industrial Property Organization</b>	Granted	AP/P/2008/004621	3/6/2007	2914	5/5/2014
<b>China</b>	Granted	200780016172.60	3/6/2007	ZL200780016172.60	5/29/2013
<b>Eurasian Patent Organization</b>	Granted	200870321	3/6/2007	17861	3/29/2013
<b>Indonesia</b>	Pending	W00200802860	3/6/2007	IDP0032077	10/22/2012
<b>India</b>	Granted	5341/CHENP/2008	3/6/2007	258747	2/4/2014
<b>India</b>	Pending	613/CHENP/2014	3/6/2007		

<b>African Intellectual Property Organization (OAPI)</b>	Granted	1200800317	3/6/2007	14280	3/31/2009
<b>Vietnam</b>	Granted	1-2008-02431	3/6/2007	14450	8/17/2015
<b>South Africa</b>	Granted	2008/07547	3/6/2007	2008/07547	11/25/2009

**(718) Title: METHODS OF IMPROVING THE PHARMACOKINETICS OF HIV INTEGRASE INHIBITORS**

Country	Status	Application No.	Filing Date	Patent No.	
<b>Armenia</b>	Granted	200801619	12/29/2006	18544	8/30/2013
<b>African Regional Industrial Property Organization</b>	Granted	AP/P/2008/004522	12/29/2006	AP2702	7/31/2013
<b>China (People's Republic)</b>	Published	201410249622.80	12/29/2006		
<b>Eurasian Patent Organization</b>	Granted	200801619	12/29/2006	18544	8/30/2013
<b>Eurasian Patent Organization</b>	Published	201201496	12/29/2006		
<b>Indonesia</b>	Pending	W00201102461	12/29/2006		
<b>Indonesia</b>	Published	W00 2008 02128	12/29/2006		
<b>India</b>	Pending	6748/DELNP/2015	12/29/2006		
<b>India</b>	Pending	5576/DELNP/2008	12/29/2006		
<b>Kyrgyz Republic</b>	Granted	200801619	12/29/2006	18544	8/30/2013
<b>Moldova</b>	Granted	200801619	12/29/2006	18544	8/30/2013
<b>African Intellectual Property Organization (OAPI)</b>	Granted	1200800239	12/29/2006	14320	6/30/2009
<b>Tajikistan</b>	Granted	200801619	12/29/2006	18544	8/30/2013
<b>Turkmenistan</b>	Granted	200801619	12/29/2006	18544	8/30/2013
<b>Vietnam</b>	Pending	1-2008-01921	12/29/2006		
<b>South Africa</b>	Granted	2008/06222	12/29/2006	2008/06222	3/25/2009

**(720) Title: PROCESS AND INTERMEDIATES FOR PREPARING INTEGRASE INHIBITORS**

Country	Status	Application No.	Filing Date	Patent Number	Issue Date
<b>Armenia</b>	Granted	200900441	9/11/2007	22099	11/30/2015
<b>African Regional Industrial Property Organization</b>	Granted	AP/P/2009/004831	9/11/2007	AP3004	10/16/2014
<b>China</b>	Granted	200780033907.60	9/11/2007	ZL200780033907.6	10/16/2013
<b>China</b>	Granted	201210224990.80	9/11/2007	CN102766098B	3/30/2016

<b>China</b>	Abandoned	201510922236.50	9/11/2007		
<b>China</b>	Published	201510922511.30	9/11/2007		
<b>Eurasian Patent Organization</b>	Granted	200900441	9/11/2007	22099	11/30/2015
<b>Indonesia</b>	Published	W00200900634	9/11/2007		
<b>Kyrgyz Republic</b>	Granted	200900441	9/11/2007	22099	11/30/2015
<b>Kazakhstan</b>	Granted	200900441	9/11/2007	22099	11/30/2015
<b>Moldova</b>	Granted	200900441	9/11/2007	22099	11/30/2015
<b>African Intellectual Property Organization (OAPI)</b>	Granted	1200900070	9/11/2007	14458	9/30/2009
<b>Thailand</b>	Published	701004583	9/11/2007		
<b>Tajikistan</b>	Granted	200900441	9/11/2007	22099	11/30/2015
<b>Turkmenistan</b>	Granted	200900441	9/11/2007	22099	11/30/2015
<b>Vietnam</b>	Granted	1-2009-00636	9/11/2007	11932	10/22/2013
<b>Vietnam</b>	Granted	1-2012-01354	9/11/2007	14698	10/20/2015
<b>South Africa</b>	Granted	2009/01576	9/11/2007	2009/01576	2/24/2010

(746) Title: PROCESS AND INTERMEDIATES FOR PREPARING INTEGRASE INHIBITORS

Country	Status	Application No	Filing Date	Patent Number	Issue Date
<b>African Regional Industrial Property Organization</b>	Granted	AP/P/2010/005187	9/11/2008	AP 2785	10/31/2013
<b>China</b>	Granted	200880106554.20	9/11/2008	ZL200880106554.2	7/9/2014
<b>Eurasian Patent Organization</b>	Granted	201070256	9/11/2008	19431	3/31/2014
<b>Ecuador</b>	Inactive	SP-10-10081	9/11/2008		
<b>Indonesia</b>	Published	W00201000759	9/11/2008		
<b>India</b>	Pending	1615/DELNP/2010	9/11/2008		
<b>African Intellectual Property Organization (OAPI)</b>	Granted	1201000093	9/11/2008	15058	
<b>Thailand</b>	Published	801004676	9/11/2008		
<b>Vietnam</b>	Granted	1-2010-00483	9/11/2008	10866	11/20/2012
<b>South Africa</b>	Granted	2010/02066	9/11/2008	2010/02066	12/29/2010

(903) Title: PROCESS AND INTERMEDIATES FOR PREPARING INTEGRASE INHIBITORS

Country	Status	Application No.	Filing Date	Patent No.
<b>China (People's Republic)</b>	Granted	201380041287.60	8/1/2013	ZL201380041287.6 11/2/2016
<b>Eurasian Patent Organization</b>	Allowed	201590018	8/1/2013	
<b>India</b>	Pending	1688/DELNP/2015	8/1/2013	

#### COBI Patents

(692) Title: MODULATORS OF PHARMACOKINETIC PROPERTIES OF THERAPEUTICS

Country	Status	Application No.	Filing Date	Patent No.
<b>African Intellectual Property Organization (OAPI)</b>	Granted	1200800450	9/30/2009	14409
<b>African Regional Industrial Property Organization</b>	Granted	AP/P/2008/004720	9/30/2014	AP2985
<b>Anguilla</b>	Granted	AI/A/2015/00172	11/2/2015	AI/A/2015/00172
<b>Armenia</b>	Granted	200900155	11/28/2014	20489
<b>China (People's Republic)</b>	Granted	200780025607.30	5/29/2013	ZL200780025607.3
<b>China (People's Republic)</b>	Granted	201310141408.60	4/29/2015	ZL201310141408.6
<b>Congo, Democratic Republic of</b>	Pending	NP/004/EXT/2016		
<b>Ethiopia</b>	Granted	ET/PI/15/185	5/25/2016	134
<b>Eurasian Patent Organization</b>	Allowed	201270738		
<b>Eurasian Patent Organization</b>	Granted	200900155	11/28/2014	20489
<b>Fiji</b>	Published	1217		
<b>Guyana</b>	Published	1642		
<b>Haiti</b>	Pending			
<b>India</b>	Pending	10487/DELNP/2008		
<b>Indonesia</b>	Granted	W00200900061	8/12/2016	IDP00042227
<b>Jamaica</b>	Pending	18/1/5696		
<b>Kazakhstan</b>	Granted	200900155	11/28/2014	20489
<b>Kiribati</b>	Granted	13/15	10/7/2015	13/15
<b>Kyrgyz Republic</b>	Granted	200900155	11/28/2014	20489
<b>Moldova</b>	Granted	200900155	11/28/2014	20489
<b>Montserrat</b>	Granted		9/23/2015	3 of 2015
<b>Nauru</b>	Pending			
<b>Nepal</b>	Pending	894		
<b>Seychelles</b>	Granted	2049506	5/25/2016	2049506
<b>Sierra Leone</b>	Pending	EP2049506		
<b>Solomon Islands</b>	Granted	J37/370	2/10/2016	J37/370
<b>South Africa</b>	Pending	2008/10399		



Tajikistan	Granted	200900155	11/28/2014	20489
Thailand	Published	701003404		
Turkmenistan	Granted	200900155	11/28/2014	20489
Turks and Caicos Islands	Pending	10214		
Tuvalu	Granted		11/7/2015	TVP2049506
Vanuatu	Unfiled			
Vietnam	Pending	1-2009-00240		
Vietnam	Pending	1-2012-02702		
Virgin Islands (British)	Granted	415/6/2015	12/1/2015	415/6/2015

(719) Title: MODULATORS OF PHARMACOKINETIC PROPERTIES OF THERAPEUTICS

Country	Status	Application No.	Filing Date	Patent No.
African Intellectual Property Organization (OAPI)	Granted	1200900273	6/30/2010	14749
African Regional Industrial Property Organization	Granted	AP/P/2009/004964	9/16/2014	AP2986
African Regional Industrial Property Organization	Granted	AP/P/2013/007042	11/30/2016	AP3915
Armenia	Granted	200901155	7/30/2014	19893
China (People's Republic)	Granted	201310326757.50	6/10/2015	10326757
China (People's Republic)	Granted	200880013255.40	8/28/2013	ZL200880013255.4
Eurasian Patent Organization	Granted	200901155	7/30/2014	19893
Fiji	Granted			
Indonesia	Granted	W00200902299	3/18/2015	IDP000038076
Kazakhstan	Granted	200901155	7/30/2014	19893
Kyrgyz Republic	Granted	200901155	7/30/2014	19893
Moldova	Granted	200901155	7/30/2014	19893
South Africa	Pending	2009/05882		
South Africa	Unfiled			
Tajikistan	Granted	200901155	7/30/2014	19893
Thailand	Pending	801000867		
Turkmenistan	Granted	200901155	7/30/2014	19893
Vietnam	Pending	1-2009-01990		
Vietnam	Pending	1-2012-02696		

(757) Title: THE USE OF SOLID CARRIER PARTICLES TO IMPROVE THE PROCESSABILITY OF A PHARMACEUTICAL AGENT

Country	Status	Application No.	Filing Date	Patent No.
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<b>African Intellectual Property Organization (OAPI)</b>	Granted	1201000364	9/28/2012	15589
<b>African Regional Industrial Property Organization</b>	Granted	AP/P/2010/005429	1/30/2015	3209
<b>Armenia</b>	Granted	201071173	3/31/2016	22950
<b>Belarus</b>	Granted	201071173	3/31/2016	22950
<b>China (People's Republic)</b>	Published	201510408376.00		
<b>China (People's Republic)</b>	Published	201310447258.10		
<b>Ecuador</b>	Pending	SP-10-10636		
<b>Eurasian Patent Organization</b>	Published	201591353		
<b>Eurasian Patent Organization</b>	Granted	201071173	3/31/2016	22950
<b>India</b>	Pending	7565/DELNP/2010		
<b>Indonesia</b>	Published	W00201004105		
<b>Kazakhstan</b>	Granted	201071173	3/31/2016	22950
<b>Kyrgyz Republic</b>	Granted	201071173	3/31/2016	22950
<b>Moldova</b>	Granted	201071173	3/31/2016	22950
<b>South Africa</b>	Granted	2010/08007	10/26/2011	2010/08007
<b>Tajikistan</b>	Granted	201071173	3/31/2016	22950
<b>Turkmenistan</b>	Granted	201071173	3/31/2016	22950
<b>Vietnam</b>	Pending	1-2010-02929		

(775) Title: METHOD OF PREPARING AN INHIBITOR OF CYTOCHROME P450 MONOOXYGENASE, AND INTERMEDIATES INVOLVED

Country	Status	Application No.	Filing Date	Patent No.
<b>African Regional Industrial Property Organization</b>	Granted	AP/P/2011/005864		
<b>African Intellectual Property Organization (OAPI)</b>	Granted	1201100311.00	4/1/2010	15801
<b>Bolivia</b>	Published	SP-0082-2010	4/1/2010	
<b>China</b>	Granted	201080014307.70	4/1/2010	ZL201080014307.7
<b>China</b>	Published	201510160505.90	4/1/2010	
<b>Eurasian Patent Organization</b>	Granted	201190179.00	4/1/2010	22739
<b>Eurasian Patent Organization</b>	Published	201590979.00	4/1/2010	
<b>Ecuador</b>	Pending	SP-11-11391	4/1/2010	
<b>Indonesia</b>	Granted	W00201103554	4/1/2010	IDP000041448
<b>India</b>	Pending	7323/DELNP/2011	4/1/2010	
<b>Pakistan</b>	Pending	262/2010	3/31/2010	
<b>Thailand</b>	Published	1101002473.00	4/1/2010	
<b>Vietnam</b>	Pending	1-2011-02324	4/1/2010	
<b>South Africa</b>	Granted	2011/07430	4/1/2010	2011/07430

(783) Title: TABLETS FOR COMBINATION THERAPY

Country	Status	Application No.	Filing Date	Patent No.
African Intellectual Property Organization (OAPI)	Pending	1201100281		
African Regional Industrial Property Organization	Granted	AP/P/2011/05857	5/6/2015	AP3250
Armenia	Granted	201190125	5/29/2015	21313
Azerbaijan	Granted	201190125	5/29/2015	21313
Bolivia	Pending	SP-00292010		
China (People's Republic)	Granted	201080006646.00	9/11/2013	ZL201080006646.0
Ecuador	Pending	SP-11-11307		
Eurasian Patent Organization	Published	201491658		
Eurasian Patent Organization	Granted	201190125	5/29/2015	21313
India	Pending	5823/DELNP/2011		
Indonesia	Granted	W00201103098	3/30/2016	IDP000040606
Kazakhstan	Granted	201190125	5/29/2015	21313
Kyrgyz Republic	Granted	201190125	5/29/2015	21313
Moldova	Granted	201190125	5/29/2015	21313
Pakistan	Allowed	94/2010		
Singapore	Published	2014007744		
South Africa	Granted	2011/06154	5/28/2014	2011/06154
Tajikistan	Granted	201190125	5/29/2015	21313
Thailand	Published	1101001423		
Turkmenistan	Granted	201190125	5/29/2015	21313
Vietnam	Pending	1-2011-02035		

(895) Title: METHODS AND INTERMEDIATES FOR PREPARING PHARMACEUTICAL AGENTS

Country	Status	Application No.	Filing Date	Patent No.
China	Abandoned	201380007712.X		
India	Abandoned	6192/DELNP/2014		

BIC Patents

(1007) TITLE: POLYCYCLIC-CARBAMOYLPYRIDONE COMPOUNDS AND THEIR PHARMACEUTICAL USE

Country	Status	Application No.	Filing Date	Patent No.	Issue Date
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<b>African Intellectual Property Organization (OAPI)</b>	Pending	1201500240	12/19/2013		
<b>African Regional Industrial Property Organization</b>	Pending	AP/P/2015/008510	12/19/2013		
<b>Anguilla</b>	Pending	AI/A/2016/00180	12/19/2013		
<b>Bahamas</b>	Pending	2551	12/19/2013		
<b>Bolivia</b>	Published	SP-00412-2013	12/20/2013		
<b>China</b>	Published	201380073134.X	12/19/2013		
<b>Congo, Democratic Republic of</b>	Pending		12/19/2013		
<b>Ecuador</b>	Published	IEPI-2015-31224	12/19/2013		
<b>El Salvador</b>	Published	E-5002-2015	12/19/2013		
<b>Ethiopia</b>	Pending	ET/PI/16/204	12/19/2013		
<b>Eurasian Patent Organization</b>	Published	201591027	12/19/2013		
<b>Fiji</b>	Published	1229	12/19/2013		
<b>Grenada</b>	Granted		12/19/2013		7/19/2016
<b>Guyana</b>	Pending	1656	12/19/2013		
<b>Haiti</b>	Pending		12/19/2013		
<b>India</b>	Pending	5535/DELNP/2015	12/19/2013		
<b>Indonesia</b>	Allowed	P00201503852	12/19/2013		
<b>Indonesia</b>	Pending	P00201607128	12/19/2013		
<b>Jamaica</b>	Pending	18/1/5740	12/19/2013		
<b>Kiribati</b>	Granted		12/19/2013		9/20/2016
<b>Moldova</b>	Pending	a20150064	12/19/2013		
<b>Montserrat</b>	Granted		12/19/2013	4 OF 2016	5/27/2016
<b>Nepal</b>	Pending	4	12/19/2013		
<b>Pakistan</b>	Pending	908/2013	12/20/2013		
<b>Philippines</b>	Published	1-2015-501445	12/19/2013		
<b>Philippines</b>	Pending	1-2016-500389	12/19/2013		
<b>Seychelles</b>	Pending	2822954	12/19/2013		
<b>Sierra Leone</b>	Pending		12/19/2013		
<b>Solomon Islands</b>	Granted		12/19/2013	J37/379	8/5/2016
<b>South Africa</b>	Pending	2015/04914	12/19/2013		
<b>South Africa</b>	Pending	2015/07997	12/19/2013		
<b>South Korea</b>	Pending	10-2015-7019194	12/19/2013		
<b>Thailand</b>	Pending	1501003563	12/19/2013		
<b>Turks and Caicos Islands</b>	Granted	10226	12/19/2013	10226	9/7/2016
<b>Tuvalu</b>	Granted	TVP2822954	12/19/2013	TVP2822954	8/15/2016
<b>Vietnam</b>	Granted	1-2015-02321	12/19/2013	15503	5/16/2016

Vietnam	Pending	1-2015-04199	12/19/2013		
Virgin Islands (British)	Granted	EP2822954	12/19/2013	427/5/2016	9/21/2016

(1091) Title: SODIUM (2R,5S,13AR)-7,9-DIOXO-10-((2,4,6-TRIFLUOROBENZYL)CARBAMOYL)-2,3,4,5,7,9,13,13A-OCTAHYDRO-2,5-METHANOPYRIDO[1',2':4,5]PYRAZINO[2,1-B]OXAZEPIN-8-OLATE

Country	Status	Application No.	Filing Date	Patent No.	Issue Date
African Regional Industrial Property Organization	Pending	AP/P/2016/009591	6/19/2015		
African Intellectual Property Organization (OAPI)	Pending	1201600454	6/19/2015		
Bolivia	Published	SP 126-2015	6/19/2015		
Bahamas	Allowed	2701	6/18/2015		
China	Published	201580033152.40	6/19/2015		
Cuba	Pending	2016-0187	6/19/2015		
Dominican Republic	Published	P2016-0327	6/19/2015		
Eurasian Patent Organization	Pending	201692414	6/19/2015		
Ecuador	Published	IEPI-2016-95566	6/19/2015		
El Salvador	Pending	2016005339	6/19/2015		
Guatemala	Pending	A2016-000262	6/19/2015		
Indonesia	Unfiled				
India	Pending	201617042937.00	6/19/2015		
Nigeria	Pending	NG/PT/C/2016/2106	6/19/2015		
Philippines	Pending				
Pakistan	Pending	382/2015	6/18/2015		
Thailand	Pending				
Trinidad and Tobago	Pending	TT/A/2016/00132	6/19/2015		
Vietnam	Pending				
South Africa	Pending	2016/08744	6/19/2015		

(1147) Title: THERAPEUTIC COMPOSITIONS FOR TREATMENT OF HUMAN IMMUNODEFICIENCY VIRUS

Country	Status	Application No.	Filing Date	Patent No.	Issue Date
Bangladesh	Pending	272/2016	11/2/2016		
Bolivia	Pending	SP-0260-2016	11/9/2016		
Bahamas	Pending		11/8/2016		
Pakistan	Pending	696/2016	11/9/2016		

<b>Patent Cooperation Treaty</b>	Entered NP	US2016/060989	11/8/2016
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**(1062) Title: SYNTHESIS OF POLYCYCLIC-CARBAMOYLPYRIDONE COMPOUNDS**

Country	Status	Application No.	Filing Date	Patent No.	Issue Date
<b>Bahamas</b>	Allowed	2702	6/18/2015		
<b>China</b>	Pending	201580033052.10	6/16/2015		
<b>Eurasian Patent Organization</b>	Pending	201692412	6/16/2015		
<b>India</b>	Pending	201717000457.00	6/16/2015		
<b>Patent Cooperation Treaty</b>	Entered NP	US2015/036017	6/16/2015		

**TDF-Quad Patents**

**(221) Title:NUCLEOTIDE ANALOGS**

Country	Status	Filing Date	Application No.	Patent No.	Issue Date
<b>China (People's Republic)</b>	Granted	7/25/1997	200810083233.70	200810083233.70	12/12/2012
<b>China (People's Republic)</b>	Granted	7/25/1997	97197460.8	ZL97197460.8	4/30/2008
<b>India</b>	Pending	7/25/1997	2076/DEL/1997		

**(230) Title: NUCLEOTIDE ANALOG COMPOSITION AND SYNTHESIS METHOD**

Country	Status	Filing Date	Application No.	Patent No.	Issue Date
<b>China (People's Republic)</b>	Granted	7/23/1998	200510099916.80	ZL200510099916.8	9/24/2008
<b>China (People's Republic)</b>	Granted	7/23/1998	200410046290X	200410046290X	4/19/2006
<b>India</b>	Pending	7/24/1998	896/DEL/2002		
<b>India</b>	Pending	7/24/1998	963/DEL/2002		
<b>India</b>	Pending	7/24/1998	1362/DEL/2004		
<b>India</b>	Granted	7/24/1998	2174/DEL/1998	190780	3/15/2004
<b>Indonesia</b>	Granted	7/23/1998	W-991548	7658	4/11/2002

**(692) Title: DIAMINOALKANE COMPOUNDS (VARIANTS) AND A METHOD OF PREPARING THEREOF (VARIANTS), A PHARMACEUTICAL COMPOSITION AND A THERAPEUTIC AGENT FOR INHIBITING CYTOCHROME-P450-MONOOXYGENASE, METHODS FOR TREATING AN HIV INFECTION AND VIRAL HEPATITS C, A METHOD OF MOD**

Country	Status	Application No.	Filing Date	Patent No.	Issue Date
<b>African Intellectual Property Organization (OAPI)</b>	Granted	1200800450	9/30/2009	14409	
<b>African Regional Industrial Property Organization</b>	Granted	AP/P/2008/004720	9/30/2014	AP2985	
<b>Anguilla</b>	Granted	AI/A/2015/00172	11/2/2015	AI/A/2015/00172	
<b>Armenia</b>	Granted	200900155	11/28/2014	20489	
<b>China (People's Republic)</b>	Granted	200780025607.30	5/29/2013	ZL200780025607.3	
<b>China (People's Republic)</b>	Granted	201310141408.60	4/29/2015	ZL201310141408.6	
<b>Congo, Democratic Republic of</b>	Pending	NP/004/EXT/2016			
<b>Ethiopia</b>	Granted	ET/PI/15/185	5/25/2016	134	
<b>Eurasian Patent Organization</b>	Allowed	201270738			
<b>Eurasian Patent Organization</b>	Granted	200900155	11/28/2014	20489	
<b>Fiji</b>	Published	1217			
<b>Guyana</b>	Published	1642			
<b>Haiti</b>	Pending				
<b>India</b>	Pending	10487/DELNP/2008			
<b>Indonesia</b>	Granted	W00200900061	8/12/2016	IDP00042227	
<b>Jamaica</b>	Pending	18/1/5696			
<b>Kazakhstan</b>	Unfiled				
<b>Kazakhstan</b>	Granted	200900155	11/28/2014	20489	
<b>Kiribati</b>	Granted	13/15	10/7/2015	13/15	
<b>Kyrgyz Republic</b>	Granted	200900155	11/28/2014	20489	
<b>Moldova</b>	Granted	200900155	11/28/2014	20489	
<b>Montserrat</b>	Granted		9/23/2015	3 of 2015	
<b>Nauru</b>	Pending				
<b>Nepal</b>	Pending	894			
<b>Seychelles</b>	Granted	2049506	5/25/2016	2049506	
<b>Sierra Leone</b>	Pending	EP2049506			
<b>Solomon Islands</b>	Granted	J37/370	2/10/2016	J37/370	
<b>South Africa</b>	Pending	2008/10399			
<b>Tajikistan</b>	Granted	200900155	11/28/2014	20489	
<b>Thailand</b>	Published	701003404			

<b>Turkmenistan</b>	Granted	200900155	11/28/2014	20489
<b>Turks and Caicos Islands</b>	Pending	10214		
<b>Tuvalu</b>	Granted		11/7/2015	TVP2049506
<b>Vietnam</b>	Pending	1-2009-00240		
<b>Vietnam</b>	Pending	1-2012-02702		
<b>Virgin Islands (British)</b>	Granted	415/6/2015	12/1/2015	415/6/2015

(719) Title: MODULATORS OF PHARMACOKINETIC PROPERTIES OF THERAPEUTICS

Country	Status	Application No.	Filing Date	Patent No.
<b>African Intellectual Property Organization (OAPI)</b>	Granted	1200900273	6/30/2010	14749
<b>African Regional Industrial Property Organization</b>	Granted	AP/P/2009/004964	9/16/2014	AP2986
<b>African Regional Industrial Property Organization</b>	Granted	AP/P/2013/007042	11/30/2016	AP3915
<b>Armenia</b>	Granted	200901155	7/30/2014	19893
<b>China (People's Republic)</b>	Granted	201310326757.50	6/10/2015	10326757
<b>China (People's Republic)</b>	Granted	200880013255.40	8/28/2013	ZL200880013255.4
<b>Eurasian Patent Organization</b>	Granted	200901155	7/30/2014	19893
<b>Fiji</b>	Granted			
<b>Indonesia</b>	Granted	W00200902299	3/18/2015	IDP000038076
<b>Kazakhstan</b>	Granted	200901155	7/30/2014	19893
<b>Kyrgyz Republic</b>	Granted	200901155	7/30/2014	19893
<b>Moldova</b>	Granted	200901155	7/30/2014	19893
<b>South Africa</b>	Pending	2009/05882		
<b>South Africa</b>	Unfiled			
<b>Tajikistan</b>	Granted	200901155	7/30/2014	19893
<b>Thailand</b>	Pending	801000867		
<b>Turkmenistan</b>	Granted	200901155	7/30/2014	19893
<b>Vietnam</b>	Pending	1-2009-01990		
<b>Vietnam</b>	Pending	1-2012-02696		

(757) Title: THE USE OF SOLID CARRIER PARTICLES TO IMPROVE THE PROCESSABILITY OF A PHARMACEUTICAL AGENT

Country	Status	Application No.	Filing Date	Patent No.
<b>African Intellectual Property Organization (OAPI)</b>	Granted	1201000364	9/28/2012	15589



<b>African Regional Industrial Property Organization</b>	Granted	AP/P/2010/005429	1/30/2015	3209
<b>Armenia</b>	Granted	201071173	3/31/2016	22950
<b>Belarus</b>	Granted	201071173	3/31/2016	22950
<b>China (People's Republic)</b>	Published	201510408376.00		
<b>China (People's Republic)</b>	Published	201310447258.10		
<b>Ecuador</b>	Pending	SP-10-10636		
<b>Eurasian Patent Organization</b>	Published	201591353		
<b>Eurasian Patent Organization</b>	Granted	201071173	3/31/2016	22950
<b>India</b>	Pending	7565/DELNP/2010		
<b>Indonesia</b>	Published	W00201004105		
<b>Kazakhstan</b>	Granted	201071173	3/31/2016	22950
<b>Kyrgyz Republic</b>	Granted	201071173	3/31/2016	22950
<b>Moldova</b>	Granted	201071173	3/31/2016	22950
<b>South Africa</b>	Granted	2010/08007	10/26/2011	2010/08007
<b>Tajikistan</b>	Granted	201071173	3/31/2016	22950
<b>Turkmenistan</b>	Granted	201071173	3/31/2016	22950
<b>Vietnam</b>	Pending	1-2010-02929		

**(775) Title: METHOD OF PREPARING AN INHIBITOR OF CYTOCHROME P450 MONOOXYGENASE, AND INTERMEDIATES INVOLVED**

Country	Status	Application No.	Filing Date	Patent No.
<b>African Intellectual Property Organization (OAPI)</b>	Granted	1201100311.00	4/1/2010	15801
<b>Bolivia</b>	Abandoned	11-114.749	4/1/2010	
<b>China</b>	Granted	201080014307.70	4/1/2010	ZL201080014307.7
<b>China</b>	Published	201510160505.90	4/1/2010	
<b>Eurasian Patent Organization</b>	Granted	201190179.00	4/1/2010	22739
<b>Eurasian Patent Organization</b>	Published	201590979.00	4/1/2010	
<b>Ecuador</b>	Pending	SP-11-11391	4/1/2010	
<b>Indonesia</b>	Granted	W00201103554	4/1/2010	IDP000041448
<b>India</b>	Pending	7323/DELNP/2011	4/1/2010	
<b>Pakistan</b>	Pending	262/2010	3/31/2010	
<b>Thailand</b>	Published	1101002473.00	4/1/2010	
<b>Vietnam</b>	Pending	1-2011-02324	4/1/2010	
<b>South Africa</b>	Granted	2011/07430	4/1/2010	2011/07430

**(895) Title: METHODS AND INTERMEDIATES FOR PREPARING PHARMACEUTICAL AGENTS**

Country	Status	Application No.	Filing Date	Patent No.
China	Abandoned	201380007712.X		
India	Abandoned	6192/DELNP/2014		

**(EMU-108) Title: Antiviral Activity and Resolution of 2-Hydroxymethyl-5-(5-Fluorocytosin-1-yl)-1,3-Oxathiolane**

Country	Status	Application No.	Filing Date	Patent No.	Issue Date
Philippines	Granted	1-1992-43955	2/20/92	1-1992-43955	2/20/09
Philippines	Granted	55191	12/27/96	1-1996-55191	3/9/07
Philippines	Granted	55192	2/20/92	55192	12/19/08
Philippines	Granted	55193	2/20/92	55193	12/19/08
Philippines	Granted	55194	2/20/92	55194	12/19/08

**(EMU-4000) Title: 1,3-Oxathiolane Nucleoside Analogues**

Country	Status	Application No.	Filing Date	Patent No.	Issue Date
Botswana	Granted	BW/A/1998/00163	4/27/98	BW/P/2002/00042	5/22/03
Dominican Republic	Granted	1793970004607.00	7/10/97	370	7/10/17
Honduras	Granted	PICA97118	8/18/97	3775	4/25/00
Jamaica	Granted	697267	7/8/97	3615	5/25/05
Nicaragua	Granted	97.0096	12/5/97	1134RPI	5/17/99

**(TRI1010) Non-Homogenous Systems for the Resolution of Enantiomeric Mixtures**

Country	Status	Application No.	Filing Date	Patent No.	Issue Date
China	Granted	99811893.1	8-Oct-99	ZL99811893.1	28-Nov-07

**(TRI1020) Method of Manufacture of 1,3-Oxathiolane Nucleosides**

Country	Status	Application No.	Filing Date	Patent No.	Issue Date
China	Granted	99809992.9	12-Aug-99	ZL99809992.9	10-Mar-04

**(783) Title: TABLETS FOR COMBINATION THERAPY**

Country	Status	Application No.	Filing Date	Patent No.
African Intellectual Property Organization (OAPI)	Pending	1201100281		

<b>African Regional Industrial Property Organization</b>	Granted	AP/P/2011/05857	5/6/2015	AP3250
<b>Armenia</b>	Granted	201190125	5/29/2015	21313
<b>Azerbaijan</b>	Granted	201190125	5/29/2015	21313
<b>Bolivia</b>	Pending	SP-00292010		
<b>China (People's Republic)</b>	Granted	201080006646.00	9/11/2013	ZL201080006646.0
<b>Ecuador</b>	Pending	SP-11-11307		
<b>Eurasian Patent Organization</b>	Published	201491658		
<b>Eurasian Patent Organization</b>	Granted	201190125	5/29/2015	21313
<b>India</b>	Pending	5823/DELNP/2011		
<b>Indonesia</b>	Granted	W00201103098	3/30/2016	IDP000040606
<b>Kazakhstan</b>	Granted	201190125	5/29/2015	21313
<b>Kyrgyz Republic</b>	Granted	201190125	5/29/2015	21313
<b>Moldova</b>	Granted	201190125	5/29/2015	21313
<b>Pakistan</b>	Allowed	94/2010		
<b>Singapore</b>	Published	2014007744		
<b>South Africa</b>	Granted	2011/06154	5/28/2014	2011/06154
<b>Tajikistan</b>	Granted	201190125	5/29/2015	21313
<b>Thailand</b>	Published	1101001423		
<b>Turkmenistan</b>	Granted	201190125	5/29/2015	21313
<b>Vietnam</b>	Pending	1-2011-02035		

**TAF-Quad Patents**

(249) Title: PRODRUGS OF PHOSPHONATE NUCLEOTIDE ANALOGUES AND METHODS FOR SELECTING AND MAKING SAME

Country	Status	Application No.	Filing Date	Patent No.	Issue Date
<b>African Intellectual Property Organization (OAPI)</b>	Granted	1200300003	7/20/2001	12393	12/29/2003
<b>African Regional Industrial Property Organization</b>	Granted	2003/002724	7/20/2001	AP 1466	9/22/2005
<b>Anguilla</b>	Granted	AI/A/2015/00173	7/20/2001	AI/A/2015/00173	11/2/2015
<b>China (People's Republic)</b>	Granted	1813161.1	7/20/2001	ZL01813161.1	12/27/2006
<b>China (People's Republic)</b>	Granted	200410097845.30	7/20/2001	ZL200410097845.3	7/16/2008

<b>Congo, Democratic Republic of</b>	Granted	NP/002/EXT/2016	7/20/2001	2016/4386	11/11/2016
<b>Ethiopia</b>	Granted	ET/PI/15/184	7/20/2001	135	5/25/2016
<b>Eurasian Patent Organization</b>	Granted	200300188	7/20/2001	4926	10/28/2004
<b>Falkland Islands (Malvinas)</b>	Granted		7/20/2001	15365	8/25/2015
<b>Fiji</b>	Published	1214	7/20/2001		
<b>Grenada</b>	Granted	7 of 2015	7/20/2001	7 of 2015	10/6/2015
<b>Guyana</b>	Published	1641	7/20/2001		
<b>Haiti</b>	Pending		7/20/2001		
<b>India</b>	Granted	9/MUMNP/2003	7/20/2001	208435	7/27/2007
<b>India</b>	Granted	00529/MUMNP/2006	7/20/2001	241597	7/14/2010
<b>Indonesia</b>	Granted	W-00200602129	7/20/2001	IDP0022897	2/20/2009
<b>Indonesia</b>	Granted	W-00200804005	7/20/2001	IDP000040148	2/15/2016
<b>Indonesia</b>	Granted	W00200300261	7/20/2001	IDP0022911	2/20/2009
<b>Jamaica</b>	Pending	18/1/5695	7/20/2001		
<b>Kiribati</b>	Granted	14/15	7/20/2001	14/15	10/7/2015
<b>Montserrat</b>	Granted	1961695.2	7/20/2001	1301519	9/23/2015
<b>Nepal</b>	Pending	669	7/20/2001		
<b>Seychelles</b>	Granted	1301519	7/20/2001	1301519	5/25/2016
<b>Sierra Leone</b>	Pending	EP1301519	7/20/2001		
<b>Solomon Islands</b>	Granted	J37/371	7/20/2001	J37/371	3/3/2016
<b>South Africa</b>	Granted	2002/10271	7/20/2001	2002/10271	12/31/2003
<b>Turks and Caicos Islands</b>	Pending	10213	7/20/2001		
<b>Tuvalu</b>	Granted		2/25/2015	TVP1301519	1/6/2016
<b>Vietnam</b>	Granted	1-2002-01193	7/20/2001	8475	5/24/2010
<b>Virgin Islands (British)</b>	Granted	414/5/2015	7/20/2001	414/5/2015	12/1/2015

**(872) Title: TENOFOVIR ALAFENAMIDE HEMIFUMARATE**

Country	Status	Application No.	Filing Date	Patent No.	Issue Date
<b>African Intellectual Property Organization (OAPI)</b>	Granted	1201400057	8/15/2012	17070	6/29/2015
<b>African Regional Industrial Property Organization</b>	Granted	AP/P/2014/007437	8/15/2012	3639	3/31/2016
<b>Bahamas</b>	Granted	2441	8/15/2012	2441	6/19/2014
<b>Bolivia</b>	Pending	SP-0277-2012	8/15/2012		
<b>China (People's Republic)</b>	Published	201280039891.00	8/15/2012		

<b>Ecuador</b>	Pending	SP-14-13206-PCT	8/15/2012		
<b>El Salvador</b>	Pending	E-4659-2014	8/15/2012		
<b>Eurasian Patent Organization</b>	Published	201490208	8/15/2012		
<b>India</b>	Pending	1012/DELNP/2014	8/15/2012		
<b>Indonesia</b>	Published	P00201400805	8/15/2012		
<b>Moldova</b>	Pending	A20140011	8/15/2012		
<b>Pakistan</b>	Pending	539/2012	8/15/2012		
<b>Philippines</b>	Granted	1-2014-500349	8/15/2012	1-2014-500349	2/29/2016
<b>South Africa</b>	Allowed	2014/00582	8/15/2012		
<b>Thailand</b>	Pending	1401000784	8/15/2012		
<b>Vietnam</b>	Pending	1-2014-00440	8/15/2012		

**(877) Title: METHODS FOR PREPARING ANTI-VIRAL NUCLEOTIDE ANALOGS**

Country	Status	Application No.	Filing Date	Patent No.	Issue Date
<b>Bahamas</b>	Granted	2455	10/3/2012	2455	6/24/2014
<b>Bolivia</b>	Granted	SP-0352-2012	10/3/2012	6385-B	11/26/2014
<b>China (People's Republic)</b>	Published	201280048965.70	10/3/2012		
<b>Ecuador</b>	Published	IEPI-2014-74	10/3/2012		
<b>El Salvador</b>	Published	E-4696/2014	10/3/2012		
<b>Eurasian Patent Organization</b>	Allowed	201490753	10/3/2012		
<b>India</b>	Published	2953/DELNP/2014	10/3/2012		
<b>Pakistan</b>	Pending	671/2012	10/3/2012		

**(692) Title: DIAMINOALKANE COMPOUNDS (VARIANTS) AND A METHOD OF PREPARING THEREOF (VARIANTS), A PHARMACEUTICAL COMPOSITION AND A THERAPEUTIC AGENT FOR INHIBITING CYTOCHROME-P450-MONOOXYGENASE, METHODS FOR TREATING AN HIV INFECTION AND VIRAL HEPATITS C, A METHOD OF MOD**

Country	Status	Application No.	Filing Date	Patent No.	Issue Date
<b>African Intellectual Property Organization (OAPI)</b>	Granted	1200800450	9/30/2009	14409	
<b>African Regional Industrial Property Organization</b>	Granted	AP/P/2008/004720	9/30/2014	AP2985	
<b>Anguilla</b>	Granted	AI/A/2015/00172	11/2/2015	AI/A/2015/00172	

Armenia	Granted	200900155	11/28/2014	20489
China (People's Republic)	Granted	200780025607.30	5/29/2013	ZL200780025607.3
China (People's Republic)	Granted	201310141408.60	4/29/2015	ZL201310141408.6
Congo, Democratic Republic of	Pending	NP/004/EXT/2016		
Ethiopia	Granted	ET/PI/15/185	5/25/2016	134
Eurasian Patent Organization	Allowed	201270738		
Eurasian Patent Organization	Granted	200900155	11/28/2014	20489
Fiji	Published	1217		
Guyana	Published	1642		
Haiti	Pending			
India	Pending	10487/DELNP/2008		
Indonesia	Granted	W00200900061	8/12/2016	IDP00042227
Jamaica	Pending	18/1/5696		
Kazakhstan	Unfiled			
Kazakhstan	Granted	200900155	11/28/2014	20489
Kiribati	Granted	13/15	10/7/2015	13/15
Kyrgyz Republic	Granted	200900155	11/28/2014	20489
Moldova	Granted	200900155	11/28/2014	20489
Montserrat	Granted		9/23/2015	3 of 2015
Nauru	Pending			
Nepal	Pending	894		
Seychelles	Granted	2049506	5/25/2016	2049506
Sierra Leone	Pending	EP2049506		
Solomon Islands	Granted	J37/370	2/10/2016	J37/370
South Africa	Pending	2008/10399		
Tajikistan	Granted	200900155	11/28/2014	20489
Thailand	Published	701003404		
Turkmenistan	Granted	200900155	11/28/2014	20489
Turks and Caicos Islands	Pending	10214		
Tuvalu	Granted		11/7/2015	TVP2049506
Vietnam	Pending	1-2009-00240		
Vietnam	Pending	1-2012-02702		
Virgin Islands (British)	Granted	415/6/2015	12/1/2015	415/6/2015

(719) Title: MODULATORS OF PHARMACOKINETIC PROPERTIES OF THERAPEUTICS

Country	Status	Application No.	Filing Date	Patent No.
<b>African Intellectual Property Organization (OAPI)</b>	Granted	1200900273	6/30/2010	14749
<b>African Regional Industrial Property Organization</b>	Granted	AP/P/2009/004964	9/16/2014	AP2986
<b>African Regional Industrial Property Organization</b>	Granted	AP/P/2013/007042	11/30/2016	AP3915
<b>Armenia</b>	Granted	200901155	7/30/2014	19893
<b>China (People's Republic)</b>	Granted	201310326757.50	6/10/2015	10326757
<b>China (People's Republic)</b>	Granted	200880013255.40	8/28/2013	ZL200880013255.4
<b>Eurasian Patent Organization</b>	Granted	200901155	7/30/2014	19893
<b>Fiji</b>	Granted			
<b>Indonesia</b>	Granted	W00200902299	3/18/2015	IDP000038076
<b>Kazakhstan</b>	Granted	200901155	7/30/2014	19893
<b>Kyrgyz Republic</b>	Granted	200901155	7/30/2014	19893
<b>Moldova</b>	Granted	200901155	7/30/2014	19893
<b>South Africa</b>	Pending	2009/05882		
<b>South Africa</b>	Unfiled			
<b>Tajikistan</b>	Granted	200901155	7/30/2014	19893
<b>Thailand</b>	Pending	801000867		
<b>Turkmenistan</b>	Granted	200901155	7/30/2014	19893
<b>Vietnam</b>	Pending	1-2009-01990		
<b>Vietnam</b>	Pending	1-2012-02696		

(757) Title: THE USE OF SOLID CARRIER PARTICLES TO IMPROVE THE PROCESSABILITY OF A PHARMACEUTICAL AGENT

Country	Status	Application No.	Filing Date	Patent No.
<b>African Intellectual Property Organization (OAPI)</b>	Granted	1201000364	9/28/2012	15589
<b>African Regional Industrial Property Organization</b>	Granted	AP/P/2010/005429	1/30/2015	3209
<b>Armenia</b>	Granted	201071173	3/31/2016	22950
<b>Belarus</b>	Granted	201071173	3/31/2016	22950
<b>China (People's Republic)</b>	Published	201510408376.00		
<b>China (People's Republic)</b>	Published	201310447258.10		
<b>Ecuador</b>	Pending	SP-10-10636		
<b>Eurasian Patent Organization</b>	Published	201591353		
<b>Eurasian Patent Organization</b>	Granted	201071173	3/31/2016	22950
<b>India</b>	Pending	7565/DELNP/2010		
<b>Indonesia</b>	Published	W00201004105		

<b>Kazakhstan</b>	Granted	201071173	3/31/2016	22950
<b>Kyrgyz Republic</b>	Granted	201071173	3/31/2016	22950
<b>Moldova</b>	Granted	201071173	3/31/2016	22950
<b>South Africa</b>	Granted	2010/08007	10/26/2011	2010/08007
<b>Tajikistan</b>	Granted	201071173	3/31/2016	22950
<b>Turkmenistan</b>	Granted	201071173	3/31/2016	22950
<b>Vietnam</b>	Pending	1-2010-02929		

(775) Title: METHOD OF PREPARING AN INHIBITOR OF CYTOCHROME P450 MONOOXYGENASE, AND INTERMEDIATES INVOLVED

Country	Status	Application No.	Filing Date	Patent No.
<b>African Intellectual Property Organization (OAPI)</b>	Granted	1201100311.00	4/1/2010	15801
<b>Bolivia</b>	Abandoned	11-114.749	4/1/2010	
<b>China</b>	Granted	201080014307.70	4/1/2010	ZL201080014307.7
<b>China</b>	Published	201510160505.90	4/1/2010	
<b>Eurasian Patent Organization</b>	Granted	201190179.00	4/1/2010	22739
<b>Eurasian Patent Organization</b>	Published	201590979.00	4/1/2010	
<b>Ecuador</b>	Pending	SP-11-11391	4/1/2010	
<b>Indonesia</b>	Granted	W00201103554	4/1/2010	IDP000041448
<b>India</b>	Pending	7323/DELNP/2011	4/1/2010	
<b>Pakistan</b>	Pending	262/2010	3/31/2010	
<b>Thailand</b>	Published	1101002473.00	4/1/2010	
<b>Vietnam</b>	Pending	1-2011-02324	4/1/2010	
<b>South Africa</b>	Granted	2011/07430	4/1/2010	2011/07430

(895) Title: METHODS AND INTERMEDIATES FOR PREPARING PHARMACEUTICAL AGENTS

Country	Status	Application No.	Filing Date	Patent No.
<b>China</b>	Abandoned	201380007712.X		
<b>India</b>	Abandoned	6192/DELNP/2014		

(899) Title: THERAPEUTIC COMPOUNDS

Country	Status	Application No.	Filing Date	Patent No.	Issue Date
<b>China (People's Republic)</b>	Published	201380007670.X	2/1/2013		



<b>Eurasian Patent Organization</b>	Published	201491287	2/1/2013
<b>India</b>	Pending	7100/DELNP/2014	2/1/2013

**(EMU-108) Title: Antiviral Activity and Resolution of 2-Hydroxymethyl-5-(5-Fluorocytosin-1-yl)-1,3-Oxathiolane**

Country	Status	Application No.	Filing Date	Patent No.	Issue Date
<b>Philippines</b>	Granted	1-1992-43955	2/20/92	1-1992-43955	2/20/09
<b>Philippines</b>	Granted	55191	12/27/96	1-1996-55191	3/9/07
<b>Philippines</b>	Granted	55192	2/20/92	55192	12/19/08
<b>Philippines</b>	Granted	55193	2/20/92	55193	12/19/08
<b>Philippines</b>	Granted	55194	2/20/92	55194	12/19/08

**(EMU-4000) Title: 1,3-Oxathiolane Nucleoside Analogues**

Country	Status	Application No.	Filing Date	Patent No.	Issue Date
<b>Botswana</b>	Granted	BW/A/1998/00163	4/27/98	BW/P/2002/00042	5/22/03
<b>Dominican Republic</b>	Granted	1793970004607.00	7/10/97	370	7/10/17
<b>Honduras</b>	Granted	PICA97118	8/18/97	3775	4/25/00
<b>Jamaica</b>	Granted	697267	7/8/97	3615	5/25/05
<b>Nicaragua</b>	Granted	97.0096	12/5/97	1134RPI	5/17/99

**(TRI1010) Non-Homogenous Systems for the Resolution of Enantiomeric Mixtures**

Country	Status	Application No.	Filing Date	Patent No.	Issue Date
<b>China</b>	Granted	99811893.1	8-Oct-99	ZL99811893.1	28-Nov-07

**(TRI1020) Method of Manufacture of 1,3-Oxathiolane Nucleosides**

Country	Status	Application No.	Filing Date	Patent No.	Issue Date
<b>China</b>	Granted	99809992.9	12-Aug-99	ZL99809992.9	10-Mar-04

For purposes of this Appendix 2, references to "PCT," "OAPI," "EAPO" and "ARIPO" shall not be construed or interpreted to grant rights to Licensee in any country other than those countries expressly included within the licenses granted to Licensee in Sections 2.2 and 2.3 of this Agreement.

**APPENDIX 3**  
Emtricitabine Patents

**(EMU-108) Title: Antiviral Activity and Resolution of 2-Hydroxymethyl-5-(5-Fluorocytosin-1-yl)-1,3-Oxathiolane**

Country	Status	Application No.	Filing Date	Patent No.	Issue Date
Philippines	Granted	1-1992-43955	2/20/92	1-1992-43955	2/20/09
Philippines	Granted	55191	12/27/96	1-1996-55191	3/9/07
Philippines	Granted	55192	2/20/92	55192	12/19/08
Philippines	Granted	55193	2/20/92	55193	12/19/08
Philippines	Granted	55194	2/20/92	55194	12/19/08

**(EMU-4000) Title: 1,3-Oxathiolane Nucleoside Analogues**

Country	Status	Application No.	Filing Date	Patent No.	Issue Date
Botswana	Granted	BW/A/1998/00163	4/27/98	BW/P/2002/00042	5/22/03
Dominican Republic	Granted	1793970004607.00	7/10/97	370	7/10/17
Honduras	Granted	PICA97118	8/18/97	3775	4/25/00
Jamaica	Granted	697267	7/8/97	3615	5/25/05
Nicaragua	Granted	97.0096	12/5/97	1134RPI	5/17/99

**(TRI1010) Non-Homogenous Systems for the Resolution of Enantiomeric Mixtures**

Country	Status	Application No.	Filing Date	Patent No.	Issue Date
China	Granted	99811893.1	8-Oct-99	ZL99811893.1	11/28/07

**(TRI1020) Method of Manufacture of 1,3-Oxathiolane Nucleosides**

Country	Status	Application No.	Filing Date	Patent No.	Issue Date
China	Granted	99809992.9	12-Aug-99	ZL99809992.9	3/10/04

**(270) Title: COMPOSITIONS AND METHODS FOR COMBINATION ANTIVIRAL THERAPY**

Country	Status	Filing Date	Application No.	Patent No.	Issue Date
Armenia	Granted	1/13/2004	200501134	15145	6/13/2011
China (People's Republic)	Published	1/13/2004	201510697340.90		
China (People's Republic)	Granted	1/13/2004	201210094391.90	ZL201210094391.9	2/24/2016
China (People's Republic)	Granted	1/13/2004	200480002190.50	200480002190.50	6/6/2012
Eurasian Patent Organization	Published	1/13/2004	201100293		

<b>Eurasian Patent Organization</b>	Granted	1/13/2004	200501134	15145	6/13/2011
<b>Kazakhstan</b>	Granted	1/13/2004	200501134	15145	6/13/2011
<b>Kazakhstan</b>	Pending		200501134 (PTE Application)		
<b>Kyrgyz Republic</b>	Granted	1/13/2004	200501134	15145	6/13/2011
<b>Kyrgyz Republic</b>	Granted		200501134 (PTE Application)	15145	5/31/2012
<b>Moldova</b>	Granted	1/13/2004	200501134	15145	6/13/2011
<b>Tajikistan</b>	Granted	1/13/2004	200501134	15145	6/13/2011
<b>Turkmenistan</b>	Granted	1/13/2004	200501134	15145	6/13/2011
<b>Turkmenistan</b>	Pending		200501134 (PTE Application)		

(677) Title: A PHARMACEUTICAL COMPOSITION, A METHOD OF PREPARING THEREOF, AND A METHOD OF TREATING VIRAL DISEASES USING SAID COMPOSITION

Country	Status	Filing Date	Application No.	Patent No.	Issue Date
<b>Armenia</b>	Granted	6/13/2006	200800033	17764	3/29/2013
<b>China (People's Republic)</b>	Granted	6/13/2006	200680026866.30	200680026866.30	3/27/2013
<b>Eurasian Patent Organization</b>	Published	6/13/2006	201201265		
<b>Eurasian Patent Organization</b>	Granted	6/13/2006	200800033	17764	3/29/2013
<b>India</b>	Pending	6/13/2006	9661/DELNP/2007		
<b>Kazakhstan</b>	Granted	6/13/2006	200800033	17764	3/29/2013
<b>Kyrgyz Republic</b>	Granted	6/13/2006	200800033	17764	3/29/2013
<b>Moldova</b>	Granted	6/13/2006	200800033	17764	3/29/2013
<b>South Africa</b>	Granted	6/13/2006	2008/00297	2008/00297	4/28/2010
<b>Tajikistan</b>	Granted	6/13/2006	200800033	17764	3/29/2013
<b>Turkmenistan</b>	Granted	6/13/2006	200800033	17764	3/29/2013

**APPENDIX 4**  
Countries in the COBI Territory

- |                              |                             |                                       |
|------------------------------|-----------------------------|---------------------------------------|
| 1. Afghanistan               | 40. Georgia                 | 79. Papua New Guinea                  |
| 2. Angola                    | 41. Ghana                   | 80. Philippines                       |
| 3. Anguilla                  | 42. Grenada                 | 81. Rwanda                            |
| 4. Antigua and Barbuda       | 43. Guatemala               | 82. Saint Kitts and Nevis             |
| 5. Armenia                   | 44. Guinea                  | 83. Saint Lucia                       |
| 6. Aruba                     | 45. Guinea-Bissau           | 84. Saint Vincent & the<br>Grenadines |
| 7. Bahamas                   | 46. Guyana                  | 85. Samoa                             |
| 8. Bangladesh                | 47. Haiti                   | 86. São Tomé and Príncipe             |
| 9. Barbados                  | 48. Honduras                | 87. Senegal                           |
| 10. Belarus                  | 49. India                   | 88. Seychelles                        |
| 11. Belize                   | 50. Indonesia               | 89. Sierra Leone                      |
| 12. Benin                    | 51. Jamaica                 | 90. Solomon Islands                   |
| 13. Bhutan                   | 52. Kazakhstan              | 91. Somalia                           |
| 14. Bolivia                  | 53. Kenya                   | 92. South Africa                      |
| 15. Botswana                 | 54. Kiribati                | 93. South Sudan                       |
| 16. British Virgin Islands   | 55. Kyrgyzstan              | 94. Sri Lanka                         |
| 17. Burkina Faso             | 56. Lao, People's Dem. Rep. | 95. Sudan                             |
| 18. Burundi                  | 57. Lesotho                 | 96. Surinam                           |
| 19. Cambodia                 | 58. Liberia                 | 97. Swaziland                         |
| 20. Cameroon                 | 59. Madagascar              | 98. Syrian Arab Republic              |
| 21. Cape Verde               | 60. Malawi                  | 99. Tajikistan                        |
| 22. Central African Republic | 61. Malaysia                | 100. Tanzania, U. Rep. of             |
| 23. Chad                     | 62. Maldives                | 101. Thailand                         |
| 24. Comoros                  | 63. Mali                    | 102. Timor-Leste                      |
| 25. Congo, Rep               | 64. Mauritania              | 103. Togo                             |
| 26. Congo, Dem. Rep. of the  | 65. Mauritius               | 104. Tonga                            |
| 27. Côte d'Ivoire            | 66. Moldova, Rep. of        | 105. Trinidad and Tobago              |
| 28. Cuba                     | 67. Mongolia                | 106. Turkmenistan                     |
| 29. Djibouti                 | 68. Montserrat              | 107. Turks and Caicos                 |
| 30. Dominica                 | 69. Mozambique              | 108. Tuvalu                           |
| 31. Dominican Republic       | 70. Myanmar                 | 109. Uganda                           |
| 32. Ecuador                  | 71. Namibia                 | 110. Ukraine                          |
| 33. El Salvador              | 72. Nauru                   | 111. Uzbekistan                       |
| 34. Equatorial Guinea        | 73. Nepal                   | 112. Vanuatu                          |
| 35. Eritrea                  | 74. Nicaragua               | 113. Vietnam                          |
| 36. Ethiopia                 | 75. Niger                   | 114. Yemen                            |
| 37. Fiji Islands             | 76. Nigeria                 | 115. Zambia                           |
| 38. Gabon                    | 77. Pakistan                | 116. Zimbabwe                         |
| 39. Gambia                   | 78. Palau                   |                                       |

## APPENDIX 5

### Countries in the EVG- Quad Territory

1. Afghanistan	36. Gambia	73. Palau
2. Angola	37. Georgia	74. Papua New Guinea
3. Anguilla	38. Ghana	75. Rwanda
4. Antigua and Barbuda	39. Grenada	76. Saint Kitts and Nevis
5. Armenia	40. Guatemala	77. Saint Lucia
6. Bahamas	41. Guinea	78. Saint Vincent & the Grenadines
7. Bangladesh	42. Guinea-Bissau	79. Samoa
8. Barbados	43. Guyana	80. São Tomé and Príncipe
9. Belize	44. Haiti	81. Senegal
10. Benin	45. Honduras	82. Seychelles
11. Bhutan	46. India	83. Sierra Leone
12. Bolivia	47. Indonesia	84. Solomon Islands
13. Botswana	48. Jamaica	85. Somalia
14. British Virgin Islands	49. Kazakhstan	86. South Africa
15. Burkina Faso	50. Kenya	87. South Sudan
16. Burundi	51. Kiribati	88. Sri Lanka
17. Cambodia	52. Kyrgyzstan	89. Sudan
18. Cameroon	53. Lao People's Dem. Rep.	90. Suriname
19. Cape Verde	54. Lesotho	91. Swaziland
20. Central African Republic	55. Liberia	92. Syrian Arab Republic
21. Chad	56. Madagascar	93. Tajikistan
22. Comoros	57. Malawi	94. Tanzania, U. Rep. of
23. Congo, Rep	58. Maldives	95. Thailand
24. Congo, Dem. Rep. of the	59. Mali	96. Timor-Leste
25. Côte d'Ivoire	60. Mauritania	97. Togo
26. Cuba	61. Mauritius	98. Tonga
27. Djibouti	62. Moldova, Rep. of	99. Trinidad and Tobago
28. Dominica	63. Mongolia	100. Turkmenistan
29. Ecuador	64. Mozambique	101. Turks and Caicos
30. El Salvador	65. Myanmar	102. Tuvalu
31. Equatorial Guinea	66. Namibia	103. Uganda
32. Eritrea	67. Nauru	104. Uzbekistan
33. Ethiopia	68. Nepal	105. Vanuatu
34. Fiji Islands, Rep. of the	69. Nicaragua	106. Vietnam
35. Gabon	70. Niger	107. Yemen
	71. Nigeria	108. Zambia
	72. Pakistan	109. Zimbabwe

**APPENDIX 7**  
Countries in the BIC Territory

- |                                 |                             |                                       |
|---------------------------------|-----------------------------|---------------------------------------|
| 1. Afghanistan                  | 39. Gambia                  | 79. Papua New Guinea                  |
| 2. Angola                       | 40. Georgia                 | 80. Philippines                       |
| 3. Anguilla                     | 41. Ghana                   | 81. Rwanda                            |
| 4. Antigua and Barbuda          | 42. Grenada                 | 82. Saint Kitts and Nevis             |
| 5. Armenia                      | 43. Guatemala               | 83. Saint Lucia                       |
| 6. Aruba                        | 44. Guinea                  | 84. Saint Vincent & the<br>Grenadines |
| 7. Bahamas                      | 45. Guinea-Bissau           | 85. Samoa                             |
| 8. Bangladesh                   | 46. Guyana                  | 86. São Tomé and Príncipe             |
| 9. Barbados                     | 47. Haiti                   | 87. Senegal                           |
| 10. Belarus                     | 48. Honduras                | 88. Seychelles                        |
| 11. Belize                      | 49. India                   | 89. Sierra Leone                      |
| 12. Benin                       | 50. Indonesia               | 90. Solomon Islands                   |
| 13. Bhutan                      | 51. Jamaica                 | 91. Somalia                           |
| 14. Bolivia                     | 52. Kazakhstan              | 92. South Africa                      |
| 15. Botswana                    | 53. Kenya                   | 93. South Sudan                       |
| 16. British Virgin Islands      | 54. Kiribati                | 94. Sri Lanka                         |
| 17. Burkina Faso                | 55. Kyrgyzstan              | 95. Sudan                             |
| 18. Burundi                     | 56. Lao, People's Dem. Rep. | 96. Surinam                           |
| 19. Cambodia                    | 57. Lesotho                 | 97. Swaziland                         |
| 20. Cameroon                    | 58. Liberia                 | 98. Syrian Arab Republic              |
| 21. Cape Verde                  | 59. Madagascar              | 99. Tajikistan                        |
| 22. Central African<br>Republic | 60. Malawi                  | 100. Tanzania, U. Rep. of             |
| 23. Chad                        | 61. Malaysia                | 101. Thailand                         |
| 24. Comoros                     | 62. Maldives                | 102. Timor-Leste                      |
| 25. Congo, Rep                  | 63. Mali                    | 103. Togo                             |
| 26. Congo, Dem. Rep. of<br>the  | 64. Mauritania              | 104. Tonga                            |
| 27. Côte d'Ivoire               | 65. Mauritius               | 105. Trinidad and Tobago              |
| 28. Cuba                        | 66. Moldova, Rep. of        | 106. Turkmenistan                     |
| 29. Djibouti                    | 67. Mongolia                | 107. Turks and Caicos                 |
| 30. Dominica                    | 68. Montserrat              | 108. Tuvalu                           |
| 31. Dominican Republic          | 69. Mozambique              | 109. Uganda                           |
| 32. Ecuador                     | 70. Myanmar                 | 110. Ukraine                          |
| 33. El Salvador                 | 71. Namibia                 | 111. Uzbekistan                       |
| 34. Equatorial Guinea           | 72. Nauru                   | 112. Vanuatu                          |
| 35. Eritrea                     | 73. Nepal                   | 113. Vietnam                          |
| 36. Ethiopia                    | 74. Nicaragua               | 114. Yemen                            |
| 37. Fiji Islands                | 75. Niger                   | 115. Zambia                           |
| 38. Gabon                       | 76. Nigeria                 | 116. Zimbabwe                         |
|                                 | 77. Pakistan                |                                       |
|                                 | 78. Palau                   |                                       |

**APPENDIX 8-A**

Form BIC Sublicense Amendment to Form Sublicense Agreement attached hereto as Appendix 8-A

**APPENDIX 8-B**

Form BIC Sublicense Amendment to Form Sublicense Agreement attached hereto as Appendix 8-B



**APPENDIX 8-C**

Form BIC Sublicense Amendment to Form Sublicense Agreement attached hereto as Appendix 8-C

**APPENDIX 8-D**

Form BIC Sublicense Amendment to Form Sublicense Agreement attached hereto as Appendix 8-D