

**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 bictegravir 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 bictegravir (“**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.”

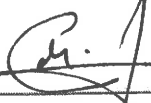
4. Appendices. Appendices 1, 2, 3, 4, and 5 of the Agreement are hereby deleted and replaced with the new Appendices 1, 2, 3, 4, and 5 attached to this Amendment, respectively. Appendices 7, 8-A, 8-B, 8-C, and 8-D attached to this Amendment are hereby added to the Agreement as Appendices 7, 8-A, 8-B, 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: Clifford M. Samuel
Title: Senior Vice President,
Access Operations & Emerging Markets

MEDICINES PATENT POOL

By: 
Name: Chan Park
Title: General Counsel

Medicines Patent Pool
Rue de Varembé 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
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)		

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

(676) Title: METHOD AND COMPOSITION FOR PHARMACEUTICAL PRODUCT

Country	Status	Filing Date	Application No.	Patent No.	Issue Date
China (People's Republic)	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
Armenia	Granted	6/13/2006	200800033	17764	3/29/2013
China (People's Republic)	Granted	6/13/2006	200680026866.30	200680026866.30	3/27/2013
Eurasian Patent Organization	Published	6/13/2006	201201265		
Eurasian Patent Organization	Granted	6/13/2006	200800033	17764	3/29/2013
India	Pending	6/13/2006	9661/DELNP/2007		
Kazakhstan	Granted	6/13/2006	200800033	17764	3/29/2013
Kyrgyz Republic	Granted	6/13/2006	200800033	17764	3/29/2013
Moldova	Granted	6/13/2006	200800033	17764	3/29/2013
South Africa	Granted	6/13/2006	2008/00297	2008/00297	4/28/2010
Tajikistan	Granted	6/13/2006	200800033	17764	3/29/2013
Turkmenistan	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
African Intellectual Property	Granted	1200300003	7/20/2001	12393	12/29/2003

Organization (OAPI)						
African Regional Industrial Property Organization	Granted	2003/002724	7/20/2001	AP 1466		9/22/2005
Anguilla	Granted	AI/A/2015/00173	7/20/2001	AI/A/2015/00173		11/2/2015
China (People's Republic)	Granted	1813161.1	7/20/2001	ZL01813161.1		12/27/2006
China (People's Republic)	Granted	200410097845.30	7/20/2001	ZL200410097845.3		7/16/2008
Congo, Democratic Republic of	Granted	NP/002/EXT/2016	7/20/2001	2016/4386		11/11/2016
Ethiopia	Granted	ET/PI/15/184	7/20/2001	135		5/25/2016
Eurasian Patent Organization	Granted	200300188	7/20/2001	4926		10/28/2004
Falkland Islands (Malvinas)	Granted		7/20/2001	15365		8/25/2015
Fiji	Published	1214	7/20/2001			
Grenada	Granted	7 of 2015	7/20/2001	7 of 2015		10/6/2015
Guyana	Published	1641	7/20/2001			
Haiti	Pending		7/20/2001			
India	Granted	9/MUMNP/2003	7/20/2001	208435		7/27/2007
India	Granted	00529/MUMNP/2006	7/20/2001	241597		7/14/2010
Indonesia	Granted	W-00200602129	7/20/2001	IDP0022897		2/20/2009
Indonesia	Granted	W-00200804005	7/20/2001	IDP000040148		2/15/2016
Indonesia	Granted	W00200300261	7/20/2001	IDP0022911		2/20/2009
Jamaica	Pending	18/1/5695	7/20/2001			
Kiribati	Granted	14/15	7/20/2001	14/15		10/7/2015
Montserrat	Granted	1961695.2	7/20/2001	1301519		9/23/2015
Nepal	Pending	669	7/20/2001			
Seychelles	Granted	1301519	7/20/2001	1301519		5/25/2016
Sierra Leone	Pending	EP1301519	7/20/2001			
Solomon Islands	Granted	J37/371	7/20/2001	J37/371		3/3/2016
South Africa	Granted	2002/10271	7/20/2001	2002/10271		12/31/2003
Turks and Caicos Islands	Pending	10213	7/20/2001			
Tuvalu	Granted		2/25/2015	TVP1301519		1/6/2016
Vietnam	Granted	1-2002-01193	7/20/2001	8475		5/24/2010
Virgin Islands (British)	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
African Intellectual Property Organization (OAPI)	Granted	1201400057	8/15/2012	17070	6/29/2015
African Regional Industrial Property Organization	Granted	AP/P/2014/007437	8/15/2012	3639	3/31/2016
Bahamas	Granted	2441	8/15/2012	2441	6/19/2014
Bolivia	Pending	SP-0277-2012	8/15/2012		
China (People's Republic)	Published	201280039891.00	8/15/2012		
Ecuador	Pending	SP-14-13206-PCT	8/15/2012		
El Salvador	Pending	E-4659-2014	8/15/2012		
Eurasian Patent Organization	Published	201490208	8/15/2012		
India	Pending	1012/DELNP/2014	8/15/2012		
Indonesia	Published	P00201400805	8/15/2012		
Moldova	Pending	A20140011	8/15/2012		
Pakistan	Pending	539/2012	8/15/2012		
Philippines	Granted	1-2014-500349	8/15/2012	1-2014-500349	2/29/2016
South Africa	Allowed	2014/00582	8/15/2012		
Thailand	Pending	1401000784	8/15/2012		
Vietnam	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
Bahamas	Granted	2455	10/3/2012	2455	6/24/2014
Bolivia	Granted	SP-0352-2012	10/3/2012	6385-B	11/26/2014
China (People's Republic)	Published	201280048965.70	10/3/2012		
Ecuador	Published	IEPI-2014-74	10/3/2012		
El Salvador	Published	E-4696/2014	10/3/2012		
Eurasian Patent Organization	Allowed	201490753	10/3/2012		
India	Published	2953/DELNP/2014	10/3/2012		
Pakistan	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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Bolivia	Pending	SP-230265	11/18/2003		
China (People's Republic)	Granted	200380100277.10	11/20/2003	ZL200380100277.1	3/19/2008
India	Granted	01316/CHENP/2004	11/20/2003	245833	2/3/2011
Indonesia	Granted	WO00200401542	11/20/2003	P0023507	6/1/2009
Nigeria	Granted	424/2003	11/19/2003	RP.15779	10/20/2004
Philippines	Granted	1-2004-500895	11/20/2003	1-2004-500895	8/20/2008
South Africa	Granted	2004/4537	11/20/2003	2004/4537	8/31/2005
Thailand	Pending	301004379	11/20/2003		
Vietnam	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.	
Bolivia	Pending	SP-250121	5/19/2005		
China (People's Republic)	Granted	200580016142.60	5/19/2005	ZL200580016142.6	5/26/2010
India	Pending	357/CHENP/2010	5/19/2005		
Philippines	Granted	1-2006-502297	5/19/2005	1-2006-502297	11/19/2010
South Africa	Granted	2006/10647	5/19/2005	2006/10647	6/25/2008
Thailand	Pending	100718	5/19/2005		

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

Country	Status	Application No.:	Filing Date	Patent No.	Issue Date
China	Granted	200780016151.40	3/6/2007	200780016151.40	2/6/2013
India	Granted	5344/CHENP/2008	3/6/2007	258895	2/13/2014
India	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
African Regional Industrial Property Organization	Granted	AP/P/2008/004621	3/6/2007	2914	5/5/2014
China	Granted	200780016172.60	3/6/2007	ZL200780016172.60	5/29/2013
Eurasian Patent Organization	Granted	200870321	3/6/2007	17861	3/29/2013
Indonesia	Pending	W00200802860	3/6/2007	IDP0032077	10/22/2012
India	Granted	5341/CHENP/2008	3/6/2007	258747	2/4/2014
India	Pending	613/CHENP/2014	3/6/2007		

African Intellectual Property Organization (OAPI)	Granted	1200800317	3/6/2007	14280	3/31/2009
Vietnam	Granted	1-2008-02431	3/6/2007	14450	8/17/2015
South Africa	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.	
Armenia	Granted	200801619	12/29/2006	18544	8/30/2013
African Regional Industrial Property Organization	Granted	AP/P/2008/004522	12/29/2006	AP2702	7/31/2013
China (People's Republic)	Published	201410249622.80	12/29/2006		
Eurasian Patent Organization	Granted	200801619	12/29/2006	18544	8/30/2013
Eurasian Patent Organization	Published	201201496	12/29/2006		
Indonesia	Pending	W00201102461	12/29/2006		
Indonesia	Published	W00 2008 02128	12/29/2006		
India	Pending	6748/DELNP/2015	12/29/2006		
India	Pending	5576/DELNP/2008	12/29/2006		
Kyrgyz Republic	Granted	200801619	12/29/2006	18544	8/30/2013
Moldova	Granted	200801619	12/29/2006	18544	8/30/2013
African Intellectual Property Organization (OAPI)	Granted	1200800239	12/29/2006	14320	6/30/2009
Tajikistan	Granted	200801619	12/29/2006	18544	8/30/2013
Turkmenistan	Granted	200801619	12/29/2006	18544	8/30/2013
Vietnam	Pending	1-2008-01921	12/29/2006		
South Africa	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
Armenia	Granted	200900441	9/11/2007	22099	11/30/2015
African Regional Industrial Property Organization	Granted	AP/P/2009/004831	9/11/2007	AP3004	10/16/2014
China	Granted	200780033907.60	9/11/2007	ZL200780033907.6	10/16/2013
China	Granted	201210224990.80	9/11/2007	CN102766098B	3/30/2016

China	Abandoned	201510922236.50	9/11/2007		
China	Published	201510922511.30	9/11/2007		
Eurasian Patent Organization	Granted	200900441	9/11/2007	22099	11/30/2015
Indonesia	Published	W00200900634	9/11/2007		
Kyrgyz Republic	Granted	200900441	9/11/2007	22099	11/30/2015
Kazakhstan	Granted	200900441	9/11/2007	22099	11/30/2015
Moldova	Granted	200900441	9/11/2007	22099	11/30/2015
African Intellectual Property Organization (OAPI)	Granted	1200900070	9/11/2007	14458	9/30/2009
Thailand	Published	701004583	9/11/2007		
Tajikistan	Granted	200900441	9/11/2007	22099	11/30/2015
Turkmenistan	Granted	200900441	9/11/2007	22099	11/30/2015
Vietnam	Granted	1-2009-00636	9/11/2007	11932	10/22/2013
Vietnam	Granted	1-2012-01354	9/11/2007	14698	10/20/2015
South Africa	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
African Regional Industrial Property Organization	Granted	AP/P/2010/005187	9/11/2008	AP 2785	10/31/2013
China	Granted	200880106554.20	9/11/2008	ZL200880106554.2	7/9/2014
Eurasian Patent Organization	Granted	201070256	9/11/2008	19431	3/31/2014
Ecuador	Inactive	SP-10-10081	9/11/2008		
Indonesia	Published	W00201000759	9/11/2008		
India	Pending	1615/DELNP/2010	9/11/2008		
African Intellectual Property Organization (OAPI)	Granted	1201000093	9/11/2008	15058	
Thailand	Published	801004676	9/11/2008		
Vietnam	Granted	1-2010-00483	9/11/2008	10866	11/20/2012
South Africa	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.
China (People's Republic)	Granted	201380041287.60	8/1/2013	ZL201380041287.6 11/2/2016
Eurasian Patent Organization	Allowed	201590018	8/1/2013	
India	Pending	1688/DELNP/2015	8/1/2013	

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(692) Title: MODULATORS OF PHARMACOKINETIC PROPERTIES OF THERAPEUTICS

Country	Status	Application No.	Filing Date	Patent No.
African Intellectual Property Organization (OAPI)	Granted	1200800450	9/30/2009	14409
African Regional Industrial Property Organization	Granted	AP/P/2008/004720	9/30/2014	AP2985
Anguilla	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	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
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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African Intellectual Property Organization (OAPI)	Granted	1201000364	9/28/2012	15589
African Regional Industrial Property Organization	Granted	AP/P/2010/005429	1/30/2015	3209
Armenia	Granted	201071173	3/31/2016	22950
Belarus	Granted	201071173	3/31/2016	22950
China (People's Republic)	Published	201510408376.00		
China (People's Republic)	Published	201310447258.10		
Ecuador	Pending	SP-10-10636		
Eurasian Patent Organization	Published	201591353		
Eurasian Patent Organization	Granted	201071173	3/31/2016	22950
India	Pending	7565/DELNP/2010		
Indonesia	Published	W00201004105		
Kazakhstan	Granted	201071173	3/31/2016	22950
Kyrgyz Republic	Granted	201071173	3/31/2016	22950
Moldova	Granted	201071173	3/31/2016	22950
South Africa	Granted	2010/08007	10/26/2011	2010/08007
Tajikistan	Granted	201071173	3/31/2016	22950
Turkmenistan	Granted	201071173	3/31/2016	22950
Vietnam	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.
African Regional Industrial Property Organization	Granted	AP/P/2011/005864		
African Intellectual Property Organization (OAPI)	Granted	1201100311.00	4/1/2010	15801
Bolivia	Published	SP-0082-2010	4/1/2010	
China	Granted	201080014307.70	4/1/2010	ZL201080014307.7
China	Published	201510160505.90	4/1/2010	
Eurasian Patent Organization	Granted	201190179.00	4/1/2010	22739
Eurasian Patent Organization	Published	201590979.00	4/1/2010	
Ecuador	Pending	SP-11-11391	4/1/2010	
Indonesia	Granted	W00201103554	4/1/2010	IDP000041448
India	Pending	7323/DELNP/2011	4/1/2010	
Pakistan	Pending	262/2010	3/31/2010	
Thailand	Published	1101002473.00	4/1/2010	
Vietnam	Pending	1-2011-02324	4/1/2010	
South Africa	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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African Intellectual Property Organization (OAPI)	Pending	1201500240	12/19/2013		
African Regional Industrial Property Organization	Pending	AP/P/2015/008510	12/19/2013		
Anguilla	Pending	AI/A/2016/00180	12/19/2013		
Bahamas	Pending	2551	12/19/2013		
Bolivia	Published	SP-00412-2013	12/20/2013		
China	Published	201380073134.X	12/19/2013		
Congo, Democratic Republic of	Pending		12/19/2013		
Ecuador	Published	IEPI-2015-31224	12/19/2013		
El Salvador	Published	E-5002-2015	12/19/2013		
Ethiopia	Pending	ET/PI/16/204	12/19/2013		
Eurasian Patent Organization	Published	201591027	12/19/2013		
Fiji	Published	1229	12/19/2013		
Grenada	Granted		12/19/2013		7/19/2016
Guyana	Pending	1656	12/19/2013		
Haiti	Pending		12/19/2013		
India	Pending	5535/DELNP/2015	12/19/2013		
Indonesia	Allowed	P00201503852	12/19/2013		
Indonesia	Pending	P00201607128	12/19/2013		
Jamaica	Pending	18/1/5740	12/19/2013		
Kiribati	Granted		12/19/2013		9/20/2016
Moldova	Pending	a20150064	12/19/2013		
Montserrat	Granted		12/19/2013	4 OF 2016	5/27/2016
Nepal	Pending	4	12/19/2013		
Pakistan	Pending	908/2013	12/20/2013		
Philippines	Published	1-2015-501445	12/19/2013		
Philippines	Pending	1-2016-500389	12/19/2013		
Seychelles	Pending	2822954	12/19/2013		
Sierra Leone	Pending		12/19/2013		
Solomon Islands	Granted		12/19/2013	J37/379	8/5/2016
South Africa	Pending	2015/04914	12/19/2013		
South Africa	Pending	2015/07997	12/19/2013		
South Korea	Pending	10-2015-7019194	12/19/2013		
Thailand	Pending	1501003563	12/19/2013		
Turks and Caicos Islands	Granted	10226	12/19/2013	10226	9/7/2016
Tuvalu	Granted	TVP2822954	12/19/2013	TVP2822954	8/15/2016
Vietnam	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		

Patent Cooperation Treaty 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
Bahamas	Allowed	2702	6/18/2015		
China	Pending	201580033052.10	6/16/2015		
Eurasian Patent Organization	Pending	201692412	6/16/2015		
India	Pending	201717000457.00	6/16/2015		
Patent Cooperation Treaty	Entered NP	US2015/036017	6/16/2015		

TDF-Quad 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

Country	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

(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
African Intellectual Property Organization (OAPI)	Granted	1200800450	9/30/2009	14409	
African Regional Industrial Property Organization	Granted	AP/P/2008/004720	9/30/2014	AP2985	
Anguilla	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.
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.
African Intellectual Property Organization (OAPI)	Granted	1201000364	9/28/2012	15589

African Regional Industrial Property Organization	Granted	AP/P/2010/005429	1/30/2015	3209
Armenia	Granted	201071173	3/31/2016	22950
Belarus	Granted	201071173	3/31/2016	22950
China (People's Republic)	Published	201510408376.00		
China (People's Republic)	Published	201310447258.10		
Ecuador	Pending	SP-10-10636		
Eurasian Patent Organization	Published	201591353		
Eurasian Patent Organization	Granted	201071173	3/31/2016	22950
India	Pending	7565/DELNP/2010		
Indonesia	Published	W00201004105		
Kazakhstan	Granted	201071173	3/31/2016	22950
Kyrgyz Republic	Granted	201071173	3/31/2016	22950
Moldova	Granted	201071173	3/31/2016	22950
South Africa	Granted	2010/08007	10/26/2011	2010/08007
Tajikistan	Granted	201071173	3/31/2016	22950
Turkmenistan	Granted	201071173	3/31/2016	22950
Vietnam	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.
African Intellectual Property Organization (OAPI)	Granted	1201100311.00	4/1/2010	15801
Bolivia	Abandoned	11-114.749	4/1/2010	
China	Granted	201080014307.70	4/1/2010	ZL201080014307.7
China	Published	201510160505.90	4/1/2010	
Eurasian Patent Organization	Granted	201190179.00	4/1/2010	22739
Eurasian Patent Organization	Published	201590979.00	4/1/2010	
Ecuador	Pending	SP-11-11391	4/1/2010	
Indonesia	Granted	W00201103554	4/1/2010	IDP000041448
India	Pending	7323/DELNP/2011	4/1/2010	
Pakistan	Pending	262/2010	3/31/2010	
Thailand	Published	1101002473.00	4/1/2010	
Vietnam	Pending	1-2011-02324	4/1/2010	
South Africa	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		

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		

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
African Intellectual Property Organization (OAPI)	Granted	1200300003	7/20/2001	12393	12/29/2003
African Regional Industrial Property Organization	Granted	2003/002724	7/20/2001	AP 1466	9/22/2005
Anguilla	Granted	AI/A/2015/00173	7/20/2001	AI/A/2015/00173	11/2/2015
China (People's Republic)	Granted	1813161.1	7/20/2001	ZL01813161.1	12/27/2006
China (People's Republic)	Granted	200410097845.30	7/20/2001	ZL200410097845.3	7/16/2008

Congo, Democratic Republic of	Granted	NP/002/EXT/2016	7/20/2001	2016/4386	11/11/2016
Ethiopia	Granted	ET/PI/15/184	7/20/2001	135	5/25/2016
Eurasian Patent Organization	Granted	200300188	7/20/2001	4926	10/28/2004
Falkland Islands (Malvinas)	Granted		7/20/2001	15365	8/25/2015
Fiji	Published	1214	7/20/2001		
Grenada	Granted	7 of 2015	7/20/2001	7 of 2015	10/6/2015
Guyana	Published	1641	7/20/2001		
Haiti	Pending		7/20/2001		
India	Granted	9/MUMNP/2003	7/20/2001	208435	7/27/2007
India	Granted	00529/MUMNP/2006	7/20/2001	241597	7/14/2010
Indonesia	Granted	W-00200602129	7/20/2001	IDP0022897	2/20/2009
Indonesia	Granted	W-00200804005	7/20/2001	IDP000040148	2/15/2016
Indonesia	Granted	W00200300261	7/20/2001	IDP0022911	2/20/2009
Jamaica	Pending	18/1/5695	7/20/2001		
Kiribati	Granted	14/15	7/20/2001	14/15	10/7/2015
Montserrat	Granted	1961695.2	7/20/2001	1301519	9/23/2015
Nepal	Pending	669	7/20/2001		
Seychelles	Granted	1301519	7/20/2001	1301519	5/25/2016
Sierra Leone	Pending	EP1301519	7/20/2001		
Solomon Islands	Granted	J37/371	7/20/2001	J37/371	3/3/2016
South Africa	Granted	2002/10271	7/20/2001	2002/10271	12/31/2003
Turks and Caicos Islands	Pending	10213	7/20/2001		
Tuvalu	Granted		2/25/2015	TVP1301519	1/6/2016
Vietnam	Granted	1-2002-01193	7/20/2001	8475	5/24/2010
Virgin Islands (British)	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
African Intellectual Property Organization (OAPI)	Granted	1201400057	8/15/2012	17070	6/29/2015
African Regional Industrial Property Organization	Granted	AP/P/2014/007437	8/15/2012	3639	3/31/2016
Bahamas	Granted	2441	8/15/2012	2441	6/19/2014
Bolivia	Pending	SP-0277-2012	8/15/2012		
China (People's Republic)	Published	201280039891.00	8/15/2012		

Ecuador	Pending	SP-14-13206-PCT	8/15/2012		
El Salvador	Pending	E-4659-2014	8/15/2012		
Eurasian Patent Organization	Published	201490208	8/15/2012		
India	Pending	1012/DELNP/2014	8/15/2012		
Indonesia	Published	P00201400805	8/15/2012		
Moldova	Pending	A20140011	8/15/2012		
Pakistan	Pending	539/2012	8/15/2012		
Philippines	Granted	1-2014-500349	8/15/2012	1-2014-500349	2/29/2016
South Africa	Allowed	2014/00582	8/15/2012		
Thailand	Pending	1401000784	8/15/2012		
Vietnam	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
Bahamas	Granted	2455	10/3/2012	2455	6/24/2014
Bolivia	Granted	SP-0352-2012	10/3/2012	6385-B	11/26/2014
China (People's Republic)	Published	201280048965.70	10/3/2012		
Ecuador	Published	IEPI-2014-74	10/3/2012		
El Salvador	Published	E-4696/2014	10/3/2012		
Eurasian Patent Organization	Allowed	201490753	10/3/2012		
India	Published	2953/DELNP/2014	10/3/2012		
Pakistan	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
African Intellectual Property Organization (OAPI)	Granted	1200800450	9/30/2009	14409	
African Regional Industrial Property Organization	Granted	AP/P/2008/004720	9/30/2014	AP2985	
Anguilla	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.
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.
African Intellectual Property Organization (OAPI)	Granted	1201000364	9/28/2012	15589
African Regional Industrial Property Organization	Granted	AP/P/2010/005429	1/30/2015	3209
Armenia	Granted	201071173	3/31/2016	22950
Belarus	Granted	201071173	3/31/2016	22950
China (People's Republic)	Published	201510408376.00		
China (People's Republic)	Published	201310447258.10		
Ecuador	Pending	SP-10-10636		
Eurasian Patent Organization	Published	201591353		
Eurasian Patent Organization	Granted	201071173	3/31/2016	22950
India	Pending	7565/DELNP/2010		
Indonesia	Published	W00201004105		

Kazakhstan	Granted	201071173	3/31/2016	22950
Kyrgyz Republic	Granted	201071173	3/31/2016	22950
Moldova	Granted	201071173	3/31/2016	22950
South Africa	Granted	2010/08007	10/26/2011	2010/08007
Tajikistan	Granted	201071173	3/31/2016	22950
Turkmenistan	Granted	201071173	3/31/2016	22950
Vietnam	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.
African Intellectual Property Organization (OAPI)	Granted	1201100311.00	4/1/2010	15801
Bolivia	Abandoned	11-114.749	4/1/2010	
China	Granted	201080014307.70	4/1/2010	ZL201080014307.7
China	Published	201510160505.90	4/1/2010	
Eurasian Patent Organization	Granted	201190179.00	4/1/2010	22739
Eurasian Patent Organization	Published	201590979.00	4/1/2010	
Ecuador	Pending	SP-11-11391	4/1/2010	
Indonesia	Granted	W00201103554	4/1/2010	IDP000041448
India	Pending	7323/DELNP/2011	4/1/2010	
Pakistan	Pending	262/2010	3/31/2010	
Thailand	Published	1101002473.00	4/1/2010	
Vietnam	Pending	1-2011-02324	4/1/2010	
South Africa	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		

(899) Title: THERAPEUTIC COMPOUNDS

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

Eurasian Patent Organization	Published	201491287	2/1/2013
India	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
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

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		

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)		
Kyrgyz Republic	Granted	1/13/2004	200501134	15145	6/13/2011
Kyrgyz Republic	Granted		200501134 (PTE Application)	15145	5/31/2012
Moldova	Granted	1/13/2004	200501134	15145	6/13/2011
Tajikistan	Granted	1/13/2004	200501134	15145	6/13/2011
Turkmenistan	Granted	1/13/2004	200501134	15145	6/13/2011
Turkmenistan	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
Armenia	Granted	6/13/2006	200800033	17764	3/29/2013
China (People's Republic)	Granted	6/13/2006	200680026866.30	200680026866.30	3/27/2013
Eurasian Patent Organization	Published	6/13/2006	201201265		
Eurasian Patent Organization	Granted	6/13/2006	200800033	17764	3/29/2013
India	Pending	6/13/2006	9661/DELNP/2007		
Kazakhstan	Granted	6/13/2006	200800033	17764	3/29/2013
Kyrgyz Republic	Granted	6/13/2006	200800033	17764	3/29/2013
Moldova	Granted	6/13/2006	200800033	17764	3/29/2013
South Africa	Granted	6/13/2006	2008/00297	2008/00297	4/28/2010
Tajikistan	Granted	6/13/2006	200800033	17764	3/29/2013
Turkmenistan	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
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

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|---------------------------------|-----------------------------|---------------------------------------|
| 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
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
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
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