PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JOHN A. MCCAULEY	12/04/2013
CHRISTOPHER J. BUNGARD	12/04/2013
ROBERT K. CHANG	12/04/2013
THOMAS J. GRESHOCK	12/04/2013
KATE HOLLOWAY	12/04/2013
JESSE J. MANIKOWSKI	12/04/2013
PHILIPPE G. NANTERMET	12/04/2013
WILLIAM SHIPE	12/04/2013
PETER D. WILLIAMS	12/13/2013

RECEIVING PARTY DATA

Name:	MERCK SHARP & DOHME CORP.	
Street Address: 126 E. LINCOLN AVENUE		
Internal Address: RY86-2011A		
City:	City: RAHWAY	
State/Country:	tate/Country: NEW JERSEY	
Postal Code: 07065-0900		

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14021930

CORRESPONDENCE DATA

Fax Number: (732)594-4720

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 7325943809

Email: kelly panno@merck.com CAROL S. QUAGLIATO Correspondent Name: Address Line 1: 126 E. LINCOLN AVENUE

Address Line 2: RY86-2011A

Address Line 4: **RAHWAY, NEW JERSEY 07065-0900**

ATTORNEY DOCKET NUMBER: MCC-IFD-00008

PAIENI **REEL: 033378 FRAME: 0165** 502905071

NAME OF SUBMITTER:	KELLY A. PANNO	
SIGNATURE: /KELLY A. PANNO/		
DATE SIGNED:	07/24/2014	
Total Attachments: 7		
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PATENT REEL: 033378 FRAME: 0166

WORLDWIDE ASSIGNMENT

WHEREAS, I/WE.

- (1) John A. McCauley, located at Maple Glen, PA,
- (2) David J. Bennett, located at New Hope, PA,
- (3) Christopher J. Bungard, located at Lansdale, PA,
- (4) Ronald K. Chang, located at Oreland, PA,
- (5) Thomas J. Greshock, located at Collegeville, PA,
- (6) Kate Holloway, located at Lansdale, PA,
- (7) Jesse J. Manikowski, located at Norristown, PA,
- (8) Philippe G. Nantermet, located at Lansdale, PA,
- (9) William Shipe, located at Chalfont, PA,
- (10) Peter D. Williams, located at Harleysville, PA,
- (11) Catherine M. Wiscount, located at Allentown, PA

(hereinafter ASSIGNOR(S)), together with

Christian Beaulieu, located at Laval, Canada,

Sheldon Crane, located at Ile Perrot, Canada,

Daniel McKay, located at Milton, MA,

Carmela Molinaro, located at West Point, PA,

Oscar Miguel Moradei, located at, Quebec, Canada,

Christian Nadeau, located at Quebec, Canada,

Vouy Linh Truong, located at, Quebec, Canada,

Li Hao, located at Singapore, Republic of Singapore

Satyanarayana Tummanapalli, located at Singapore, Republic of Singapore

Sanjay Kumar Singh, located at Singapore, Republic of Singapore; and

Vijayasaradhi Sivalenka, located at Singapore, Republic of Singapore, are the inventors of the invention described in an application for Patents having the Attorney Docket Number indicated above and the following Title of the Invention:

HIV PROTEASE INHIBITORS

and/or in the following application(s):

- U.S. Provisional Application No. 61/699,343 filed on 09/11/2012;
- U.S. Application No. 14/021,930 having a filing date of 9/9/2013 and
- PCT International Application No. PCT/US13/58724 having a filing date of 9/9/2013

WHEREAS I/WE covenant that the rights and property herein conveyed are free and clear of any encumbrance, and that I/we have the full right to convey the same as herein expressed.

WHEREAS, Merck Sharp & Dohme Corp., a corporation organized under the laws of the State of New Jersey, having an office at 126 East Lincoln Avenue, Rahway, New Jersey 07065, and its successors, assigns and legal representatives (hereinafter **ASSIGNEE**), is desirous of obtaining the entire right, title and interest in, to and under the invention disclosed in said application or applications;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I/we, said ASSIGNOR(S), do each hereby sell, assign and transfer or confirm the grant and assignment to said ASSIGNEE my/our entire right, title and interest in all countries of the world in and to my/our invention described in said application for Patents, in and to the right to file patent applications in the name of ASSIGNEE, its designee, or in any or all of our names, at its election, on the aforesaid invention in all countries of the world, together with all rights of priority in the aforesaid countries deriving from the above-identified application for Patents under the International Convention for the Protection of Industrial Property, under the Inter-American Convention relating to Inventions, Patents, Designs and Industrial Models and under any other international arrangement relating to patents or intellectual property, in and to any and all Letters Patent that are granted from the aforesaid application for Patents, in and to any applications claiming priority benefits to a provisional patent application or other applications filed on said invention, and in and to any continuations, divisions, reexaminations, reissues, renewals and extensions thereof of any of said Letters Patent, the same to be held and enjoyed by said ASSIGNEE, to the full ends of the terms for which all Letters Patent therefore may be granted, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

AND I/WE HEREBY covenant and agree that we will at any time, upon the request and at the expense of ASSIGNEE, without further compensation or charge to said ASSIGNEE, execute and deliver any and all documents that may be necessary or desirable to perfect the title to the foregoing invention, patent applications, and Letters Patent and continuations, divisions, reexaminations, reissues, renewals and extensions thereof in the name of ASSIGNEE, including the execution and procurement of any and all further documents evidencing this assignment and sale as may be necessary or desirable for recording the same in the Patent Office of any country concerned, and will make all rightful oaths and declarations and do all lawful acts requisite for procuring the same or for aiding therein.

Computer Generated Template "Assignment-Merck Sharp & Dohme, Multiple Assignees Worldwide" (Assignment) Merck Sharp & Dohme Corp. 11/04/2010

I/WE HEREBY authorize **ASSIGNEE** to insert in this instrument the Application Number(s) and the filing date(s) of said application for Patents when officially notified thereof.

This document may be executed in any number of counterparts, each of which so executed shall be deemed to be an original, but all such components shall together constitute but one and the same document.

Executed this 4 day of December	, 20 <u>/ 3</u>
John A. McCauley	
ACKNOWLEDGEMENT	
known, and known by me to be the same person) s.s.:) 20 <u>43</u> , personally appeared before me John A. McCauley to me described in and who executed the foregoing instrument, and of his (her) own free will for the purpose set forth.
(Seal)	Notary Public COMMONWEALTH OF PENNSYLVANIA Notarial Seal Marjorie M. Bennett, Notary Public Upper Gwynedd Twp., Montgomery County My Commission Expires Jan. 24, 2015 MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES
Executed this day of	, 20
David J. Bennett	
ACKNOWLEDGEMENT	
of)
of	
On this day of , and known by me to be the same person describ that he (she) executed the same, of his (her) own	20, personally appeared before me David J. Bennett to me known, led in and who executed the foregoing instrument, and acknowledged in free will for the purpose set forth.
(Seal)	
	Notary Public

Page 2 of 7

Executed this <u>H</u> day of <u>Dec</u>	en 60,2013
Bugard.	
Christopher J. Bungard	
ACKNOWLEDGEMENT	
Commonwealth of Pennsylvania	
County of Montgomery) \$.\$.:)
known, and known by me to be the	same person described in and who executed the foregoing instrument, and ed the same, of his (her) own free will for the purpose set forth.
(Seal)	Notary Public COMMONWEALTH OF PENNSYLVANIA Notarial Seal Marjorie M. Bennett, Notary Public Upper Gwynedd Twp., Montgomery County Upper Gwynedd Twp., Montgomery County My Commission Expires Jan. 24, 2015 MEMBER PENNSYLVANIA ASSOCIATION OF NOTARIES
Executed thisday of	<u>nbo</u> , 20 <u>/3</u>
ACKNOWLEDGEMENT	
Commonwealth of Pennsylvania) s.s.:
County of Montgomery) *
and known by me to be the same p	, 20 <u>6</u> , personally appeared before me Ronald K. Chang to me known, terson described in and who executed the foregoing instrument, and acknowledged f his (her) own free will for the purpose set forth.
(Seai)	May ris De Sura & Notary Public
	COMMONWEALTH OF PENNSYLVANIA
	Notarial Seal Marjorie M. Bennett, Notary Public Upper Gwynedd Twp., Montgomery County My Commission Expires Jan. 24, 2015
	WHEN THE PROPERTY VANIA ASSOCIATION OF NOTARIES

REEL: 033378 FRAME: 0169

Executed this 4 day of December, 2013
DS10052
Thomas J. Greshock
ACKNOWLEDGEMENT
Commonwealth of Pennsylvania) s.s.:
County of Montgomery)
On this 4 day of 20/3 personally appeared before me Thomas J. Greshock to me known, and known by me to be the same person described in and who executed the foregoing instrument, and acknowledged that he (she) executed the same, of his (her) own free will for the purpose set forth.
Notary Public COMMONWEALTH OF RENNISYLVANIA Notarial Seal Marjorie M. Bennett, Notary Public Upper Gwynedd Twp., Montgomery County My Commission Expires Jan. 24, 2015 MEMBER, PENNISYLVANIA ASSOCIATION OF NOTARIES
Executed this 4 day of Constant , 20-13.
Kate Holloway
ACKNOWLEDGEMENT
Commonwealth of Pennsylvania
On this 4 day of , 269, personally appeared before me Kate Holloway to me known, and known by me to be the same person described in and who executed the foregoing instrument, and acknowledged that he (she) executed the same, of his (her) own free will for the purpose set forth.
(Seal)
Mayou / house
COMMONWEALTH OF PENNSYLVANIA Notarial Seal Marjorie M. Bennett, Notary Public
Upper Gwynedd Twp., Montgomery County My Commission Expires Jan. 24, 2015
MEMBER DERRICY VANIA ASSOCIATION OF NOTARIES

REEL: 033378 FRAME: 0170

	Executed this 4 day of December .	20 <u>/3</u>
	Jesse J. Manikowski	
M	On this day of Deenlar, 2 known, and known by me to be the same person of acknowledged that he (she) executed the same, o	lescribed in and who executed the foregoing instrument, and
	(Seal)	Mayai no Beaut
		COMMONWEALTH OF PENNSYLVANIA Notarial Seal Marjorie M. Bennett, Notary Public Upper Gwynedd Twp., Montgomery County My Commission Expires Jan. 24, 2015 MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES
	Executed this 4 day of Do Co rado,	20 <u>/3</u>
	On this 4 day of Deen by , 2	s.s.: 0 1 3 personally appeared before me Philippe G. Nantermet to me described in and who executed the foregoing instrument, and f his (her) own free will for the nurpose set forth
	(Seal)	Mayrice Will for the purpose sectoral. Notary Public
		COMMONWEALTH OF PENNSYLVANIA Notarial Seal Marjorie M. Bennett, Notary Public Upper Gwynedd Twp., Montgomery County My Commission Expires Jan. 24, 2015 MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

Executed this $\frac{\mathcal{H}}{\mathcal{H}}$ day of $\frac{\mathcal{D}\mathcal{C}(n\mathcal{B}_{\mathcal{V}})}{\mathcal{D}\mathcal{C}(n\mathcal{B}_{\mathcal{V}})}$, 20 \mathcal{B} .
William Shipe William Shipe
ACKNOWLEDGEMENT
Commonwealth of Pennsylvania)
) s.s.: County of Montgomery)
On this day of , 20 personally appeared before me William Shipe to me known, and known by me to be the same person described in and who executed the foregoing instrument, and acknowledged that he (she) executed the same, of his (her) own free will for the purpose set forth.
COMMENSAR POBLIST PENNSYLVANIA Notarial Seal Marjorie M. Bennett, Notary Public Upper Gwynedd Twp., Montgomery County My Commission Expires Jan. 24, 2015 My Commission Expires Jan. 24, 2015
Executed this graduated and the second of th
Peter D. Williams
ACKNOWLEDGEMENT CHANGING OF PENOLOGICA
On this day of Across 2012, personally appeared before me Peter D. Williams to me known, and known by me to be the same person described in and who executed the foregoing instrument, and acknowledged that he (she) executed the same, of his (her) own free will for the purpose set forth.
(Seal) COMMONWEALTH OF PENNSYLVANIA Notarial Seal Dorothy M. Miliker, Notary Public Upper Gwynedd Twp., Montgomery County My Commission Expires May 14, 2017 MEMBER, PENNSYLVANIA ASSOCIATION OF NOTASIES

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Computer Generated Template "Assignment-Merck Sharp & Dohme. Multiple Assignees Worldwide" (Assignment) Merck Sharp & Dohme Corp. 11/04/2010

REEL: 033378 FRAME: 0172

Executed this	day of	_ , 20
Catherine M. Wise	count	
ACKNOWLEDGE	MENT	
· · · · · · · · · · · · · · · · · · ·	of	۷
County of) s.s.:)
known, and known	by me to be the same perso	, 20, personally appeared before me Catherine M. Wiscount to me n described in and who executed the foregoing instrument, and , of his (her) own free will for the purpose set forth.
(Seal)		
		Notary Public

RECORDED: 07/24/2014