PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
IZZAT TIEDJE RAHEEM	11/22/2016
TIMOTHY J. HARTINGH	11/22/2016
JOHN SCHREIER	11/21/2016

RECEIVING PARTY DATA

Name:	MERCK SHARP & DOHME CORP.
Street Address:	126 EAST LINCOLN AVENUE
City:	RAHWAY
State/Country:	NEW JERSEY
Postal Code:	07065

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15781985

CORRESPONDENCE DATA

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Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

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Phone: 732-594-4488

US-DOCKET-PATENT@merck.com Email:

Correspondent Name: MERCK

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Address Line 4: RAHWAY, NEW JERSEY 07065-0907

ATTORNEY DOCKET NUMBER:	24247-US-PCT (MSD CORP)
NAME OF SUBMITTER:	KELLY A. PANNO
SIGNATURE:	/KELLY A. PANNO/
DATE SIGNED:	06/06/2018

Total Attachments: 3

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> **PATENT** REEL: 046005 FRAME: 0612 504947693

Attorney Docket No.: 24247

WORLDWIDE ASSIGNMENT

WHEREAS, IWE.

- (1) Izzat Tiedje Raheem, located at Doylestown, PA,
- (2) Timothy J. Hartingh, located at Richlandtown, PA,
- (3) John Schreier, located at Harleysville, PA,

(hereinafter ASSIGNOR(S)), together with Jean-Laurent Paparin, located at Vendemian, France, 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:

ANTIVIRAL PHOSPHODIAMIDE PRODRUGS OF TENOFOVIR

and in the following application(s):

E.P. Priority Application No. EP15306977.	3 filed on 12/10/2015;		
U.S. Application No.	having a filing date of		and
PCT International Application No. PCT/US1	.6/064883 having a	filing date of	12/05/2016

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.

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.

Computer Generated Template "Assignment-Merck Sharp & Dohme. Multiple Assignees Worldwide" (Assignment) Merck Sharp & Dohme Corp. 07/09/2010

Attorney Docket No.: 24247

Executed this <u>22</u> day of <u>N/oV</u>	, 2016.
Izzat Tiedje Raheem	
ACKNOWLEDGEMENT	
Commonwealth of Pennsylania)) s.s.:
County of Montgomery	
me known, and known by me to be the sa	ne person(s) described in and who executed the foregoing instrument, and same, of his (her) own free will for the purpose set forth. Ruth a Cullulate Notary Public
Executed this 22 day of November Link Day Later Timothy J. Hartingh	, 2016.
ACKNOWLEDGEMENT	
Commonwealth of Pennsylania County of Montgomery)) s.s.:)
me known, and known by me to be the sa	, 2016, personally appeared before me Timothy J. Hartingh to time person(s) described in and who executed the foregoing instrument, and same, of his (her) own free will for the purpose set forth.
(Seal) COMMONWEALTH OF PENNSYLVANIA NOTARIAL SEAL Ruth A. Culbreath, Notary Public Upper Gwynedd Twp., Montgomery County My Commission Expires Aug. 17, 2020 WEMBER, FENNSYLVANIA ASSOCIATION OF NOTARIES	Rutha Cultureath. Notary Public

Attorney Docket No.: 24247

Executed this 21 day of November , 201	16.
ASC.	
John Schreier	
//	
ACKNOWLEDGEMENT	
Commonwealth of Pennsylania)	
) s.s.:	
County of Montgomery)	
On this <u>21</u> day of <u>Novembe</u> known, and known by me to be the same person(s acknowledged that he (she) executed the same, of	, 2016, personally appeared before me John Schreier to me described in and who executed the foregoing instrument, and this (her) own free will for the purpose set forth.
(Seal) COMMONWEALTH OF PENNSYLVANIA NOTARIAL SEAL Ruth A. Cuibreath, Notary Public Upper Gwynedd Twp., Montgomery County My Commission Expires Aug. 17, 2020 WENSEN, PENNSYLVANIA ASSOCIATION OF NOTARIES	Ruth a Cullinearh Notary Public

RECORDED: 06/06/2018