504794597 02/27/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4841329

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
BRYON L SIMMONS	03/07/2017
KEVIN R CAMPOS	03/07/2017
ARTIS KLAPARS	03/07/2017
PETER E MALIGRES	04/04/2017
STEVEN MARK SILVERMAN	03/13/2017
YONG-LI ZHONG	03/07/2017
ALAN HYDE	03/07/2017

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15519846

CORRESPONDENCE DATA

Fax Number:

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.

Email: us efs@merck.com

Correspondent Name: MERCK SHARP & DOHME CORP.

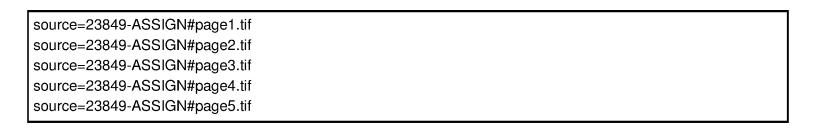
Address Line 1: 126 EAST LINCOLN AVE

Address Line 4: RAHWAY, NEW JERSEY 07065

ATTORNEY DOCKET NUMBER:	23849
NAME OF SUBMITTER:	TANYA L TORRES
SIGNATURE:	/Tanya L. Torres/
DATE SIGNED:	02/27/2018

Total Attachments: 5

PATENT REEL: 045044 FRAME: 0891



PATENT REEL: 045044 FRAME: 0892

WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,

- (1) Bryon L. Simmons, located at Hamilton, NJ,
- (2) Kevin R. Campos, located at Berkeley Heights, NJ,
- (3) Artis Klapars, located at Edison, NJ,
- (4) Peter E. Maligres, located at Fanwood, NJ,
- (5) Alan Hyde, located at Jersey City, NJ,
- (6) Steven Mark Silverman, located at Jersey City, NJ,
- (7) Yong-Li Zhong, located at Edison, NJ,

(hereinafter ASSIGNOR(S)), together with <u>Kara Van Valkenburg</u>, located at <u>Syracuse</u>, <u>New York</u>, <u>Kenneth Baker</u>, located at <u>Syracuse</u>, <u>New York</u>, <u>Alistair J. Stewart</u>, located at <u>Somerville</u>, <u>Massachusetts</u>, <u>Benjamin A. Mayes</u>, located at <u>Boston</u>, <u>Massachusetts</u>, and <u>Adel M. Moussa</u>, located at <u>Burlington</u>, <u>Massachusetts</u>, 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:

PROCESS FOR MAKING NUCLEOSIDE PHOSPHORAMIDATE COMPOUNDS

and in the following application(s):

- U.S. Provisional Application No. <u>62/066,049</u> filed on <u>10/20/2014</u>;
- U.S. Provisional Application No. 62/130,834 filed on 03/10/2015;
- U.S. Application No. ______having a filing date of ____
- PCT International Application No. PCT/US2015/056333 having a filing date of 10/20/1015.

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

PATENT REEL: 045044 FRAME: 0893

Kevin R. Campos ACKNOWLEDGEMENT State of New Jersey)) s.s.:	Executed this day of	, 20
ACKNOWLEDGEMENT State of New Jersey County of Union On this day of 20, personally appeared before me, Bryon L. Simmons, 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) TANYAL TORRES NOTARY PUBLIC OF NEW JERSEY My Commission Expires June 3, 202 Executed this day of 200 ACKNOWLEDGEMENT State of New Jersey State of New Jersey State of New Jersey State of New Jersey On this day of 200 On this day of 200 Acknowledged that he (she) executed 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)		
State of New Jersey County of Union On this day of		
County of Union On this day of	ACKNOWLEDGEMENT	
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) TANYA L. TORRES NOTARY PUBLIC OF NEW JERSEY My Commission Expires June 3, 202 Executed this day of) s.s.:	
Notary Public TANYAL TORRES NOTARY PUBLIC OF NEW JERSEY My Commission Expires June 3, 202 Kevin R. Campos ACKNOWLEDGEMENT State of New Jersey State of New Jersey State of New Jersey On this day of , 20 , personally appeared before me, Kevin R. Campos, 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)	known, and known by me to be the same person	n described in and who executed the foregoing instrument, and
TANYA L. TORRES NOTARY PUBLIC OF NEW JERSEY My Commission Expires June 3, 202 Executed this day of, 20 Kevin R. Campos ACKNOWLEDGEMENT State of New Jersey	(Seal)	There I Tarre
Executed this		Notary Public
Kevin R. Campos ACKNOWLEDGEMENT State of New Jersey) s.s.: County of Union On this day of, 20, personally appeared before me, Kevin R. Campos, 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)		TANYA L. TORRES NOTARY PUBLIC OF NEW JERSEY My Commission Expires June 3, 202
ACKNOWLEDGEMENT State of New Jersey) s.s.: County of Union On this day of, 20, personally appeared before me, Kevin R. Campos, 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)	Executed this day of	, 20
State of New Jersey) s.s.: County of Union On this day of, 20, personally appeared before me, Kevin R. Campos , 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)	Kevin R. Campos	
On this day of, 20, personally appeared before me, Kevin R. Campos , 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)	ACKNOWLEDGEMENT	
On this day of, 20, personally appeared before me, Kevin R. Campos , 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)	State of New Jersey	
chown, 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)) s.s.: County of Union)	
- LANDA Journey	known, and known by me to be the same person	described in and who executed the foregoing instrument, and
Notary Public	(Seal)	- Carra Tomas
		Notary Public

TANYA L. TORRES NOTARY PUBLIC OF NEW JERSEY My Commission Expires June 3, 2021

Executed this day of	_, 20
Artis Klapars	
ACKNOWLEDGEMENT	
State of New Jersey) s.s.: County of Union) s.s.: On this day of day of and known by me to be the same person description that he (she) executed the same, of his (her) ow	_, 20 / _, personally appeared before me, Artis Klapars , to me known, bed in and who executed the foregoing instrument, and acknowledged on free will for the purpose set forth.
(Seal)	Notary Public
	TANYA L. TORRES NOTARY PUBLIC OF NEW JERSEY My Commission Expires June 3, 2021
Executed this day of	
ACKNOWLEDGEMENT	
State of New Jersey) s.s.:	
On this day of known, and known by me to be the same person	, 20//, personally appeared before me, Peter E. Maligres , to me a described in and who executed the foregoing instrument, and of his (her) own free will for the purpose set forth.
(Seal)	Notary Public

TANYA L. TORRES NOTARY PUBLIC OF NEW JERSEY My Commission Expires June 3, 2021

Executed this day of	_, 20 <u>/</u>
Alan Hyde	dans
ACKNOWLEDGEMENT	
State of New Jersey)	
County of Union) s.s.:	
On this day of	, 20, personally appeared before me, Alan Hyde , to me known, bed in and who executed the foregoing instrument, and acknowledged on free will for the purpose set forth.
(Seal)	The same of the sa
	Notary Public
	TANYA L. TORRES NOTARY PUBLIC OF NEW JERSEY My Commission Expires June 3, 2021
Executed this 13 day of 10	, 20_/
	,) 10 22 2
Steven Mark Silverman	
ACKNOWLEDGEMENT	
State of New Jersey) s.s.:	
County of Union)	
me known, and known by me to be the same per	, 20 personally appeared before me Steven Mark Silverman , to rson described in and who executed the foregoing instrument, and of his (her) own free will for the purpose set forth.
(Seal)	Comment of the second of the s
the stage	Notary Public

Executed this day of	, 20 <u></u>
mongless	
Yong-Li Zhong	
ACKNOWLEDGEMENT	
State of New Jersey)	
County of Union) s.s.:	
On this day of known, and known by me to be the same person acknowledged that he (she) executed the same, or	, 20, personally appeared before me, Yong-Li Zhong , 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

TANYA L. TORRES NOTARY PUBLIC OF NEW JERSEY My Commission Expires June 3, 2021