# 504912522 05/14/2018

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4959266

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

#### **CONVEYING PARTY DATA**

Name	Execution Date
THOMAS H. GRAHAM	10/07/2016
TAO YU	10/09/2016
ANDREW STAMFORD	10/13/2016
WENSHENG LIU	10/13/2016
LIBO XU	10/18/2016
SHERMAN T. WADDELL	10/17/2016
JOHN A. MCCAULEY	10/10/2016
JAY A. GROBLER	10/10/2016

### **RECEIVING PARTY DATA**

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

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	15775871

## **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: 732-594-4488
Email: us\_efs@merck.com

Correspondent Name: MERCK

Address Line 1: P O BOX 2000

Address Line 4: RAHWAY, NEW JERSEY 07065-0907

ATTORNEY DOCKET NUMBER: 24173-US-PCT

NAME OF SUBMITTER: MICHELLE A. SISKO

PATENT 504912522 REEL: 045793 FRAME: 0483

SIGNATURE:	/Michelle A. Sisko/
DATE SIGNED:	05/14/2018
Total Attachments: 7	
source=24173-ASSIGN#page1.tif	
source=24173-ASSIGN#page2.tif	
source=24173-ASSIGN#page3.tif	
source=24173-ASSIGN#page4.tif	
source=24173-ASSIGN#page5.tif	
source=24173-ASSIGN#page6.tif	
source=24173-ASSIGN#page7.tif	

PATENT REEL: 045793 FRAME: 0484 (8) Libo Xu,

Attorney Docket No.: 24173

#### WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,
(1) Thomas H. Graham,
(2) Tao Yu,
(3) Sherman T. Waddell,
(4) John A. McCauley,
(5) Andrew Stamford,
(6) Wensheng Liu,
(7) Jay A. Grobler,
(1) Indiana, Indiana

(hereinafter ASSIGNOR(S)), is/are the inventor(s) of the invention described in an application for Patents having the Attorney Docket Number indicated above and the following Title of the Invention:

located at Bridgewater, New Jersey 08807, USA

#### SPIROCYCLIC PYRIDOTRIAZINE DERIVATIVES USEFUL AS HIV INTEGRASE INHIBITORS

and/or in the following application(s):

U.S. Provisional Application No. 62/2	256,410 filed on November 17, 2015;	e F
U.S. Application No.	having a filing date of	; and
PCT International Application No	having a filing da	ite of

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. Single Assignee Worldwide" (Assignment) Merck Sharp & Dohme Corp. 11/04/2010

Executed this 01 day of October	, 20 <u>1</u>	
- Than IV Mahr		
Thomas H. Graham	<del></del>	
ACKNOWLEDGEMENT		
STATE of NEW JERSEY County of Niov	) ) s.s.: )	
On this 01 day of 0660 day of known, and known by me to be the same persacknowledged that he (she) executed the same		egoing instrument, and
(Seal)	Chustine M. Ka Notary Public	ndlidis
Executed this <u>01</u> day of <u>October</u>	, 20 💪	CHRISTINE M. KA LIDIS Notary Public of N Drsey I.D. # 2442 Commission Expires Jan 19, 201
Tao Yil	<del></del>	
ACKNOWLEDGEMENT		
STATE of NEW JERSEY  County of United	) ) s.s.: )	
On this $\underbrace{O7}$ day of $\underbrace{CCOBC}$ known by me to be the same person(s) describe (she) executed the same, of his (her) own f	, 200, personally appeared before me bed in and who executed the foregoing instru	Tao Yu, to me known, and ment, and acknowledged that
(Seal)	Notary Public	Kanellede.
Executed this 13 <sup>TH</sup> day of OCTOBER  OCHMINSTERMENT,  Andrew Stamford	14/	HRISTINE M. KAMELLIDIS of the Jersey J.D. # 2442 onmission Expires January 9, 2019
ACKNOWLEDGEMENT		
STATE of NEW JERSEY	)	
County of Union October	) s.s.: )	
On this 3 day of October known, and known by me to be the same pers acknowledged that he (she) executed the same	son(s) described in and who executed the fore	egoing instrument, and
(Seal)	Chusting M. Ko Notary Public	nellidio
		TINE M. KANELLIDIS

Page 2 of 4
Computer Generated Template "Assignment-Merck Sharp & Dohme. Single Assignee Worldwide" (Assignment) Merck Sharp & Dohme. Single Assignee Worldwide" (Assignment) Merck Sharp & Dohme. Sharp & Dohme. Single Assignee Worldwide" (Assignment) Merck Sharp & Dohme. Sharp

REEL: 045793 FRAME: 0486

ACKNOWLEDGEMENT

Sherman T. Waddell

State of

**NEW JERSEY** 

) s.s.:

County of Unite

On this 17 day of 0c40 blr, 2016, personally appeared before me Sherman T. Waddell 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)

Notary Public

CHRISTINE M. KANELLIDIS Notary Public of New Jersey I.D. # 2442057 Commission Expires January 9, 2019

Page 3 of 4
Computer Generated Template "Assignment-Merck Sharp & Dohme. Single Assignee Worldwide" (Assignment) Merck Sharp & Dohme Corp. 11/04/2010

REEL: 045793 FRAME: 0487

Executed this day of	, 20
John A. McCauley	
ACKNOWLEDGEMENT	
County of PENNSYLVANIA	) ) s.s.: )
On this day of known, and known by me to be the same pe acknowledged that he (she) executed the sa	, 20, personally appeared before me <b>John A. McCauley</b> , to me erson described in and who executed the foregoing instrument, and ame, of his (her) own free will for the purpose set forth.
(Seal)	
	Notary Public
Executed this day of  Jay A. Grobler	20
ACKNOWLEDGEMENT  Commenwealth of PENNSYLVANIA	) ) s.s.:
County of	*
On this day of and known by me to be the same person de that he (she) executed the same, of his (her	, 20, personally appeared before me Jay A. Grobler to me known escribed in and who executed the foregoing instrument, and acknowledged r) own free will for the purpose set forth.
(Seal)	
	Notary Public

**REEL: 045793 FRAME: 0488** 

#### WORLDWIDE ASSIGNMENT

WHEREAS, I/WE, (1) Thomas H. Graham, located at Scotch Plains, New Jersey 07076, USA, located at Edison, New Jersey 08820, USA, (2) Tao Yu, located at Westfield, New Jersey 07090, USA, (3) Sherman T. Waddell, located at Maple Glen, Pennsylvania 19002, USA, (4) John A. McCauley, located at Chatham Township, New Jersey, 07928, USA (5) Andrew Stamford, located at Edison, New Jersey 08820, USA (6) Wensheng Liu, (7) Jay A. Grobler, located at Gwynedd, Pennsylvania 19436, USA and (8) Libo Xu, located at Bridgewater, New Jersey 08807, USA

(hereinafter ASSIGNOR(S)), is/are the inventor(s) of the invention described in an application for Patents having the Attorney Docket Number indicated above and the following Title of the Invention:

## SPIROCYCLIC PYRIDOTRIAZINE DERIVATIVES USEFUL AS HIV INTEGRASE INHIBITORS

and/or in the following application(s):

U.S. Provisional Application No. 62/25	66,410 filed on November 17, 2015	<u>5</u> ;
U.S. Application No.	having a filing date of	; and
PCT International Application No.	having a filing d	late of

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.

IMVE 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. Single Assignee Worldwide" (Assignment) Merck Sharp & Dohme Corp. 11/04/2010

Executed this day of	, 20	
Thomas H. Graham		Tao Yu
Andrew Stamford	<del></del>	Wensheng Liu
Libo Xu	<del></del>	
ACKNOWLEDGEMENT		
STATE of NEW JERSEY	)	
County of	) ) s.s.: )	
Andrew Stamford, Wensheng Liu, and Li and who executed the foregoing instrument, for the purpose set forth.  (Seal)	bo Xu to me knowledge	ersonally appeared before me Thomas H. Graham, Tao Yu, own, and known by me to be the same person(s) described in ged that he (she) executed the same, of his (her) own free will Notary Public
Executed this day of	, 20	
Sherman T. Waddell		
ACKNOWLEDGEMENT		
State of <u>NEW JERSEY</u>	)	
County of	) s.s.: )	
On this day of known, and known by me to be the same pe acknowledged that he (she) executed the same	erson described	ersonally appeared before me <b>Sherman T. Waddell</b> to me in and who executed the foregoing instrument, and own free will for the purpose set forth.
(Seal)		
	<del></del>	Notary Public

Attorney Docket No.: 24173 Executed this 10 day of Ochober 2016 ACKNOWLEDGEMENT Commonwealth of PENNSYLVANIA ) s.s.: County of Montgomery\_\_\_\_\_ On this 10 day of 00000 , 20 le personally appeared before me John A. McCauley, 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. Miller, Notary Public Upper Gwynedd Twp., Montgomery County My Commission Expires May 14, 2017 NEMBER, FEILISYLVANIA ASSOCIATION OF NOTARIES Executed this 10 day of OcroBev , 2016. **ACKNOWLEDGEMENT** Commonwealth of PENNSYLVANIA ) s.s.: County of Montgomery On this 10 day of 00000 , 2016, personally appeared before me Jay A. Grobler 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)

Page 3 of 3

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

REEL: 045793 FRAME: 0491

COMMONWEALTH OF PENNSYLVANIA

Notarial Seal

Dorothy M. Miller, Notary Public

Upper Gwynedd Twp., Montgomery County
My Commission Expires May 14, 2017

MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES