505641633 08/27/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5688439

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ERIC L. HASELTINE	05/20/2019
SAMUEL MOSKOWITZ	05/16/2019
SARAH ROBERTSON	05/15/2019
DAVID WALTZ	05/15/2019

RECEIVING PARTY DATA

Name:	VERTEX PHARMACEUTICALS INCORPORATED
Street Address:	50 NORTHERN AVENUE
City:	BOSTON
State/Country:	MASSACHUSETTS
Postal Code:	02210

PROPERTY NUMBERS Total: 4

Property Type	Number
Application Number:	62574670
Application Number:	62650057
Application Number:	16165849
PCT Number:	US1856772

CORRESPONDENCE DATA

Fax Number: (617)646-1666

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.

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ATTORNEY DOCKET NUMBER:	10275.6129 AND 0129	
NAME OF SUBMITTER:	ANTOINETTE E. NIBBS	
SIGNATURE:	/Antoinette E. Nibbs/	
DATE SIGNED:	08/27/2019	

PAIENI REEL: 050180 FRAME: 0964 505641633

Total Attachments: 6 source=10275.0129 Inventors to VPI #page1.tif source=10275.0129 Inventors to VPI #page2.tif source=10275.0129 Inventors to VPI #page3.tif source=10275.0129 Inventors to VPI #page4.tif

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PATENT REEL: 050180 FRAME: 0965

ASSIGNMENT

WHEREAS I/We, the below-named inventor(s) (hereinafter referred to as Assignor(s)), of an invention entitled:

COMPOSITIONS FOR TREATMENT OF CYSTIC FIBROSIS

as disclosed and claimed in the applications identified below this paragraph:

Application Number	Country of Filing	Filing Date
62/574,670	US	October 19, 2017
62/650,057	US	March 29, 2018

by virtue of our agreements with Vertex Pharmaceuticals Incorporated, a corporation of Massachusetts whose post office address is 50 Northern Avenue, Boston, Massachusetts 02210, USA (hereinafter referred to as Assignee), confirm assignment and hereby assign to assignee the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to all applications for patents on this invention in all countries throughout the world, including any PCT International Application and all national stage applications based thereon that may be filed, and all patents issued upon such applications in all countries throughout the world;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I/We, as Assignors, confirm that all rights in the inventions and applications listed above automatically transferred to Assignee by virtue of my/our agreements. For the avoidance of doubt, Assignors hereby confirm having sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, my/our entire right, title, and interest in and to this invention, the above-referenced applications that disclose and/or claim this invention, any PCT International Application and all national stage applications based thereon that may be filed, any other applications for patents filed anywhere in the world that claim this invention, and all divisions, and continuations of any such application, and all patents which may be granted thereon, and all reissues thereof, and all rights to claim priority in any country on the basis of any such applications, and all extensions, renewals, and reissues thereof; and I/We hereby authorize and request that any official of any country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment:

AND, I/WE covenant that have not executed and will not execute any agreement in conflict with this Assignment;

AND, I/WE further covenant and agree that I/We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to me/us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

IN TESTIMONY WHEREOF, I/We have hereunto set our hands.

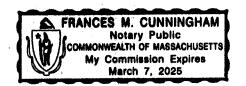
SOLE/JOINT INVENTION (Worldwide Rights)

Attorney Docket No. VPI/17-118 US PRV1 and PRV2

Eric L. Haseltine

Date: 20 May 2019

Commonwealth of Massachusetts County of Suffolk



SOLE/JOINT INVENTION (Worldwide Rights)

Attorney Docket No. VPI/17-118 US PRV1 and PRV2

Samuel Moskowitz

16-MAY-2019

Commonwealth of Massachusetts County of Suffolk

, 2019 before me, the undersigned notary public, personally appeared Samuel

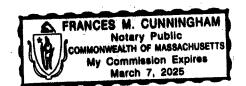
Moskowitz (name of document signer), proved to me through satisfactory evidence of identification, which was/were

, to be the person personal knowledge of identity, \square a driver's license, \square other (please identify) _ whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful

and accurate to the best of his/her knowledge and belief.

Notary Public

My Commission Expires



SOLE/JOINT INVENTION (Worldwide Rights)

Attorney Docket No. VPI/17-118 US PRV1 and PRV2

Sarah Robertson

Date: 15 Mby 2019

Commonwealth of Massachusetts County of Suffolk

-

On this $_{15}$ day of $_{17}$ day of _____, 2019, before me, the undersigned notary public, personally appeared Sarah

Robertson (name of document signer), proved to me through satisfactory evidence of identification, which was/were

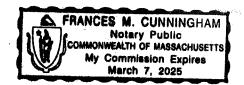
personal knowledge of identity, \square a driver's license, \square other (please identify) ______, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful

and accurate to the best of his/her knowledge and belief.

Notary Public

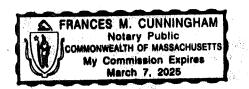
My Commission Expires 11

lunch 7 2025



SOLE/JOINT INVENTION (Worldwide Rights) Attorney Docket No. VPI/17-118 US PRV1 and PRV2

	David Waltz	
	Date: 15 may 2019	
Commonwealth of Massachusetts County of Suffolk On this	before me, the undersigned notary public ough satisfactory evidence of identificatio	c, personally appeared David Waltz n, which was/were ᡌ personal
knowledge of identity, \square a driver's license, \square name is signed on this document, and who staccurate to the best of his/her knowledge and the state of his/her knowledge and the state of his/her knowledge.	other (please identify) wore or affirmed to me that the contents o	, to be the person whose
Notary Public		



My Commission Expires Manch 7, 2025

ACKNOWLEDGEMENT OF ASSIGNEE

Name:	Kerrv	A.	Flv	nn	4

Title: VP, IP and Chief IP Counsel

On behalf of Vertex Pharmaceuticals Incorporated

Date

Commonwealth	of Massachusetts
Commonwealin	OF MASSACHUSEUS

County of Suffolk

On this $\frac{21\%}{2}$ day of $\frac{1100}{2}$, 2019, before me, the undersigned notary public, personally appeared Kerry A.

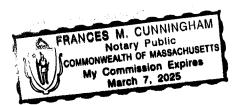
Flynn (name of document signer), proved to me through satisfactory evidence of identification, which was/were

personal knowledge of identity, \square a driver's license, \square other (please identify) ______, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful

and accurate to the best of his/her knowledge and belief.

Notary Public

My Commission Expires



RECORDED: 08/27/2019