505903085 02/06/2020 PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:		NEW ASS	NEW ASSIGNMENT			
NATURE OF CONVEYANCE:		ASSIGNM	ASSIGNMENT			
CONVEYING PARTY D	ATA					
		Name			Execution Date	
STEPHEN ANDREW TH	HOMSON					
RECEIVING PARTY DA	 \ТА					
Name:	VERTEX	RTEX PHARMACEUTICALS INCORPORATED				
Street Address:	50 NORT	NORTHERN AVENUE				
City:	BOSTON	STON				
State/Country:	MASSAC	SSACHUSETTS				
Postal Code:	02210	02210				
PROPERTY NUMBERS	STotal: 2					
Property Type		Number				
Application Number: 160		16032799				
PCT Number: US2		JS2018041649				
CORRESPONDENCE [
Fax Number:	(7	34)489-8002				
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Case No. VPI/17-102 WO

ASSIGNMENT

WHEREAS, Stephen Andrew Thomson, the "Assignor", has made an invention entitled CARBOXAMIDES AS MODULATORS OF SODIUM CHANNELS, for a full description of which reference is here made to U.S. Provisional Application No. 62/531,313, filed July 11, 2017; U.S. Provisional Application No. 62/608,283, filed 16/032,799 December 20, 2017; U.S. Patent Application No. filed PCT/US2018/041649 July 11, 2018 International Patent Application No. filed Taiwanese Patent Application No. 107123989 filed July 11, 2018 Argentinian Patent Application No. July 11, 2018 filed 20180101925 ; Venezuelan Patent Application No. filed July 11, 2018 ; and Uruguayan Patent Application No. 37806 filed July 11, 2018

<u>July 11, 2018</u> (Note: I/We, the undersigned, hereby authorize the Assignee and/or its patent attorney(s) to fill in the application numbers of the foregoing patent applications when such application numbers become known to Assignee.);

WHEREAS, <u>Vertex Pharmaceuticals Incorporated</u>, a corporation organized and existing under the laws of the <u>Commonwealth of Massachusetts</u>, having a place of business at <u>50 Northern Avenue</u>, <u>Boston</u>, <u>Massachusetts 02210</u>, the "Assignee", desires to acquire the entire right, title and interest in the invention and the patent applications identified above, and all patents which may be obtained for the invention, as set forth below;

NOW, THEREFORE, in consideration of valuable and legally sufficient consideration, the receipt of which by the Assignor from the Assignee is acknowledged, the Assignor has sold, assigned and transferred, and by these presents hereby sells, assigns and transfers to the Assignee, the entire right, title and interest for the United States in the invention and the patent applications identified above, and any patents that may issue for the invention in the United States; with the entire right, title and interest in the invention and all patent applications and patents issuing therefrom in all countries foreign to the United States, including the full right to claim for any such application all benefits and priority rights under any applicable convention; with the entire right, title

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PATENT REEL: 051740 FRAME: 0255

and interest in all continuations, divisions, reissues, reexaminations, renewals and extensions of any of the patent applications and patents defined above; with the right to recover all damages, including, but not limited to, a reasonable royalty, by reason of past, present, or future infringement or any other violation of patent or patent application rights; to have hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for all such patents.

The Assignor covenants and agrees, for both the Assignor and the Assignor's legal representatives, that the Assignor will assist the Assignee in the prosecution of the patent applications identified above; in the making and prosecution of any other patent applications that the Assignee may elect to make covering the invention identified above; in vesting in the Assignee exclusive title in all such other patent applications and patents; and that the Assignor will execute and deliver to the Assignee all additional papers which may be requested by the Assignee to carry out the terms of this Assignment.

The Commissioner of Patents and Trademarks is authorized and requested to issue patents to the Assignee under the terms of this Assignment.

IN TESTIMONY WHEREOF, the Assignor has executed this agreement.

PATENT REEL: 051740 FRAME: 0256

DATED:

Stephen Andrew Thomson

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

7/9/18

STATE OF CONFORMED) ss.

I, <u>NICOLA</u> <u>Salence</u>, a Notary Public in and for the County and State aforesaid, do hereby certify that <u>Stephen Andrew Thomson</u>, proved to me through satisfactory evidence of identification which was/were: <u>personal</u> knowledge of identity, <u>a</u> driver's license, <u>other</u> other (please identify) ______, to be the person whose name is signed on this document, appeared before me this day in person and acknowledged that (*s*) he signed, sealed and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this day of $\frac{3010}{1000}$, 201%.

Notary Public

My Commission Expires: February 15, 2020



PATENT REEL: 051740 FRAME: 0257 ACKNOWLEDGMENT OF ASSIGNEE

Ву: ___

Kerry A. Hymn Vice President and Chief IP Counsel VERTEX PHARMACEUTICALS INCORPORATED

Date: July 11, 2018

Commonwealth of Massachusetts County of Suffolk

On this $\underline{// + h}$ day of $\underline{\bigcirc}$, 2018, before me, the undersigned notary public, personally appeared Kerry A. Flynn, proved to me through satisfactory evidence of identification which was/were: $\underline{\bigcirc}$ personal knowledge of identity, \Box a driver's license, \Box 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.

INMONTO MINM Notary Public

My Commission Expires: Dec. 23, 0022

RECORDED: 02/06/2020

Lauren M. DeVincenzo Notary Public COMMONWEALTH OF MASSACHUSETTS My Commission Expires December 23, 2022