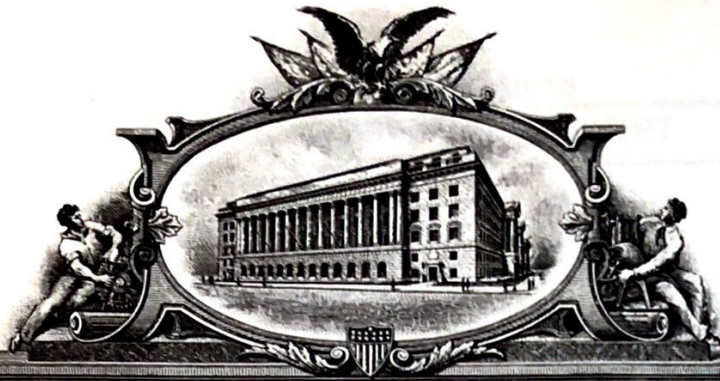


A 8051281



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

UNITED STATES DEPARTMENT OF COMMERCE

United States Patent and Trademark Office

July 09, 2020

THIS IS TO CERTIFY THAT ANNEXED IS A TRUE COPY FROM THE
RECORDS OF THIS OFFICE OF A DOCUMENT RECORDED ON
NOVEMBER 6, 2018.

By Authority of the
Under Secretary of Commerce for Intellectual Property
and Director of the United States Patent and Trademark Office



W. Montgomery
W. MONTGOMERY
Certifying Officer

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5224523

SUBMISSION TYPE:	NEW ASSIGNMENT																						
NATURE OF CONVEYANCE:	ASSIGNMENT																						
CONVEYING PARTY DATA																							
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>JENNIFER M. FROST</td><td>10/23/2018</td></tr><tr><td>MARINA PLIUSHCHEV</td><td>10/19/2018</td></tr><tr><td>YUNSONG TONG</td><td>10/19/2018</td></tr><tr><td>LAWRENCE A. BLACK</td><td>10/25/2018</td></tr><tr><td>XIANGDONG XU</td><td>11/01/2018</td></tr><tr><td>LEI SHI</td><td>10/24/2018</td></tr><tr><td>QINGWEI I. ZHANG</td><td>10/25/2018</td></tr><tr><td>SEUNGWON CHUNG</td><td>10/25/2018</td></tr><tr><td>RAMZI FARAH SWEIS</td><td>10/28/2018</td></tr><tr><td>MICHAEL J. DART</td><td>10/29/2018</td></tr></tbody></table>	Name	Execution Date	JENNIFER M. FROST	10/23/2018	MARINA PLIUSHCHEV	10/19/2018	YUNSONG TONG	10/19/2018	LAWRENCE A. BLACK	10/25/2018	XIANGDONG XU	11/01/2018	LEI SHI	10/24/2018	QINGWEI I. ZHANG	10/25/2018	SEUNGWON CHUNG	10/25/2018	RAMZI FARAH SWEIS	10/28/2018	MICHAEL J. DART	10/29/2018	
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RECEIVING PARTY DATA																							
<table border="1"><tr><td>Name:</td><td>ABBVIE INC.</td></tr><tr><td>Street Address:</td><td>1 NORTH WAUKEGAN ROAD</td></tr><tr><td>City:</td><td>NORTH CHICAGO</td></tr><tr><td>State/Country:</td><td>ILLINOIS</td></tr><tr><td>Postal Code:</td><td>60064</td></tr></table>	Name:	ABBVIE INC.	Street Address:	1 NORTH WAUKEGAN ROAD	City:	NORTH CHICAGO	State/Country:	ILLINOIS	Postal Code:	60064													
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Application Number:	62580742																						
CORRESPONDENCE DATA																							
Fax Number:																							
<i>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.</i>																							
Email:	KCOMISKEY@GOODWINLAW.COM																						
Correspondent Name:	GOODWIN PROCTER LLP																						
Address Line 1:	100 NORTHERN AVENUE																						
Address Line 4:	BOSTON, MASSACHUSETTS 02210																						
ATTORNEY DOCKET NUMBER:	CLS-007PR																						
NAME OF SUBMITTER:	KERRY K. COMISKEY																						

SIGNATURE:	/Kerry K. Comiskey/
DATE SIGNED:	11/06/2018
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ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, made by Jennifer M. Frost; Marina Pliushchev; Yunsong Tong; Lawrence A. Black; Xiangdong Xu; Lei Shi; Qingwei I. Zhang; Seungwon Chung; Ramzi Farah Sweis; and Michael J. Dart (hereinafter referred to as Assignors), residing at 635 Yorktown Lane, Gurnee, Illinois 60031; 337 Albert Drive, Vernon Hills, Illinois 60061; 1408 Braxton Road, Libertyville, Illinois 60048; 150 Puukolii Road, Apt. 33, Lahaina, Hawaii 96761; 4 River Oaks Circle West, Buffalo Grove, Illinois 60089; 1908 Trevino Terrace, Vernon Hills, Illinois 60061; 1820 S Falcon Drive, Libertyville, Illinois 60048; 1512 Virginia Avenue, Libertyville, Illinois 60048; 1012 Plaister Avenue, Lake Bluff, Illinois 60044; and 844 Yale Lane, Highland Park, Illinois 60035, respectively;

WHEREAS, Assignors have invented certain new and useful improvements in MODULATORS OF THE INTEGRATED STRESS PATHWAY, set forth in a Provisional application for Letters Patent of the United States, already filed on November 2, 2017 as U.S. Application No. 62/580742; and

WHEREAS, AbbVie Inc., a Delaware corporation having its principal place of business at 1 North Waukegan Road, North Chicago, Illinois 60064 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefore and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use

and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Provisional application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignors hereby request the Commissioner for Patents and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

AND Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document:

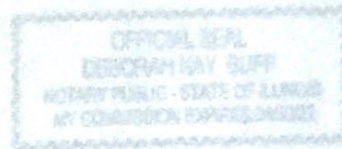
10-11-2018 GOODWIN PROCTER LLP

All practitioners at Customer Number 051414

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

On the 10th day of October, 2018, before me, Jennifer M. Frost, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Notary Public



Jennifer M. Frost

Jennifer M. Frost

Date: 10-23-2018

United States of America)
State of Illinois) ss.:
County of Lake)

On this 23rd day of Oct, 2018, before me
personally came Jennifer M. Frost, to me known to be the individual
described in and who executed the foregoing instrument, and acknowledged execution
of the same.

Deborah Kay Buff
Notary Public



CLS-007PR

PATENT

REEL: 047424 FRAME: 0868

Marina Pliushchev
Marina Pliushchev

Date: 10/19/2018

United States of America)
State of Illinois) ss.:
County of Lake)

On this 19th day of Oct., 2018, before me
personally came Marina Pliushchev, to me known to be the individual
described in and who executed the foregoing instrument, and acknowledged execution
of the same.

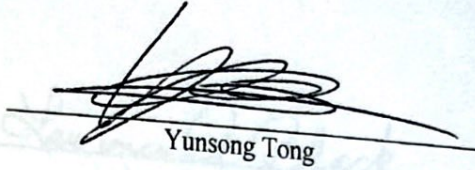
Deborah Kay Buff
Notary Public



CLS-007PR

PATENT
REEL: 047424 FRAME: 0869

Date: 10/19/2018


Yunsong Tong

United States of America

State of

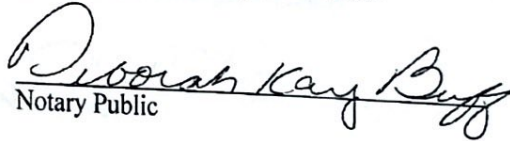
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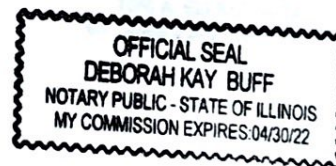
County of

Lake

) ss.:
)

On this 19th day of Oct., 2018, before me
personally came Yunsong Tong, to me known to be the individual
described in and who executed the foregoing instrument, and acknowledged execution
of the same.


Notary Public



Lawrence A. Black
Lawrence A. Black

Date: 10/25/2018

United States of America)
State of HI) ss.:
County of Mau)

On this 25 day of October, 2018, before me
personally came Lawrence A. Black, to me known to be the individual
described in and who executed the foregoing instrument, and acknowledged execution
of the same.



Teri A. Elliot
Notary Public

TERI A. ELLIOT, NOTARY PUBLIC
MY COMMISSION EXPIRES: FEB 19, 2020

CLS-007PR

PATENT
REEL: 047424 FRAME: 0871

11-1-2018
Date

Xiangdong Xu
Xiangdong Xu

Witnessed by:

(1) [Signature]
Signature of Witness

Le Wang
Print Witness Name

11/1/2018
Date

Vernon Hills, USA
Witness' City and Country of Residence

(2) [Signature]
Signature of Witness

Daniel T. Cohen
Print Witness Name

Nov 1/2018
Date

Lincolnwood, USA
Witness' City and Country of Residence

CLS-007PR

PATENT
REEL: 047424 FRAME: 0872

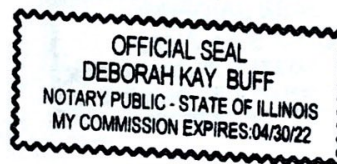
Date: 10/24/2018

Lei Shi
Lei Shi

United States of America)
State of ILLINOIS) ss.:
County of Lake)

On this 24th day of Oct., 2018, before me
personally came Lei Shi, to me known to be the individual
described in and who executed the foregoing instrument, and acknowledged execution
of the same.

Deborah Kay Buff
Notary Public



Qingwei I. Zhang

Qingwei I. Zhang

Date:

10/25/2018

United States of America)

State of

Illinois

) ss.:

County of

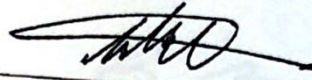
Lake

On this 25th day of October, 2018, before me
personally came Qingwei I. Zhang, to me known to be the individual
described in and who executed the foregoing instrument, and acknowledged execution
of the same.

[Signature]

Notary Public





Seungwon Chung

Date: 10/25/2018

United States of America)
State of Illinois) ss.:
County of Lake)

On this 25th day of October, 2018, before me
personally came Seungwon Chung, to me known to be the individual
described in and who executed the foregoing instrument, and acknowledged execution
of the same.



Notary Public



Date:

10-28-2018

Ramzi Farah Sweis

United States of America

State of

ILLINOIS

) ss.:

County of

DUPAGE

On this

28

day of

October

2018

personally came

Ramzi Farah Sweis

, before me

described in and who executed the foregoing instrument, and acknowledged execution of the same.

Rahachel
Notary Public



CLS-007PR

PATENT
REEL: 047424 FRAME: 0876

ASSIGNMENT hereby assigns all right of the entire right, title and interest in and to
PATENT AND PATENT APPLICATIONS.

Michael J. Dart
Michael J. Dart

Date: Oct. 29, 2018

United States of America)
State of Illinois) ss.:
County of Lake)

On this 29th day of Oct., 2018, before me
personally came Michael J. Dart, to me known to be the individual
described in and who executed the foregoing instrument, and acknowledged execution
of the same.

Deborah Kay Buff
Notary Public



CLS-007PR

PATENT
REEL: 047424 FRAME: 0877

ASSIGNEE hereby accepts receipt of the entire right, title and interest in and to
the PATENTS AND PATENT APPLICATIONS.

11/1/18
Date

By: ABBVIE INC.

Signature

Johanna M. Corbin

Printed Name of Signor

Assistant Secretary

Title/Authority of Signor

CLS-007PR

RECORDED: 11/06/2018

PATENT
REEL: 047424 FRAME: 0878