504694359 12/19/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4741081

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CHRISTOPHER FLORES	12/18/2017
ISHTIYAQUE AHMAD	06/22/2014
RAJAGOPAL BAKTHAVATCHALAM	06/24/2014
SIVARAMAKRISHNA BATTULA	06/26/2014
HENRICUS JACOBUS, MARIA GIJSEN	06/19/2014
SARAVANAN VADIVELU	06/26/2014
MARK WALL	06/12/2014

RECEIVING PARTY DATA

Name:	JANSSEN PHARMACEUTICA NV
Street Address:	TURNHOUTSEWEG 30
City:	BEERSE
State/Country:	BELGIUM
Postal Code:	B2340

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15202600

CORRESPONDENCE DATA

Fax Number:(703)848-2981Correspondence 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:703-584-3270

	100 304 0210
Email:	cwilky@rmsc2.com
Correspondent Name:	ROBERTS MLOTKOWSKI SAFRAN COLE & CALDERON, P.C.
Address Line 1:	7918 JONES BRANCH DRIVE, SUITE 500
Address Line 4:	MCLEAN, VIRGINIA 22102

ATTORNEY DOCKET NUMBER:	400364-20221
NAME OF SUBMITTER:	MICHAEL J. MLOTKOWSKI
SIGNATURE:	/Michael J. Mlotkowski/
DATE SIGNED:	12/19/2017

Total Attachments: 33

source=2017-12-19_Assignment#page1.tif source=2017-12-19 Assignment#page2.tif source=2017-12-19 Assignment#page3.tif source=2017-12-19_Assignment#page4.tif source=2017-12-19_Assignment#page5.tif source=2017-12-19 Assignment#page6.tif source=2017-12-19_Assignment#page7.tif source=2017-12-19_Assignment#page8.tif source=2017-12-19 Assignment#page9.tif source=2017-12-19 Assignment#page10.tif source=2017-12-19_Assignment#page11.tif source=2017-12-19_Assignment#page12.tif source=2017-12-19 Assignment#page13.tif source=2017-12-19_Assignment#page14.tif source=2017-12-19_Assignment#page15.tif source=2017-12-19_Assignment#page16.tif source=2017-12-19 Assignment#page17.tif source=2017-12-19 Assignment#page18.tif source=2017-12-19 Assignment#page19.tif source=2017-12-19 Assignment#page20.tif source=2017-12-19 Assignment#page21.tif source=2017-12-19 Assignment#page22.tif source=2017-12-19 Assignment#page23.tif source=2017-12-19 Assignment#page24.tif source=2017-12-19_Assignment#page25.tif source=2017-12-19 Assignment#page26.tif source=2017-12-19 Assignment#page27.tif source=2017-12-19 Assignment#page28.tif source=2017-12-19_Assignment#page29.tif source=2017-12-19 Assignment#page30.tif source=2017-12-19 Assignment#page31.tif source=2017-12-19_Assignment#page32.tif source=2017-12-19_Assignment#page33.tif

ASSIGNMENT

WHEREAS, CHRISTOPHER FLORES (hereinafter referred to as ASSIGNOR(S)), has/have invented certain new and useful inventions relating to SUBSTITUTED IMIDAZOLES AS N-TYPE CALCIUM CHANNEL BLOCKERS (hereinafter referred to as THE INVENTION) for which a U.S. Patent Application No. 15/202,600 was filed on July 6, 2016.

WHEREAS, JANSSEN PHARMACEUTICA NV, a corporation duly organized under and pursuant to the laws of the country of Belgium and whose address is TURNHOUTSEWEG 30, BEERSE, B2340 BELGIUM (hereinafter referred to as ASSIGNEE(S)), is/are desirous of acquiring the entire right, title and interest in and to THE INVENTION in the United States and throughout the world.

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, ASSIGNOR(S), by these presents does/do sell, assign and transfer unto said ASSIGNEE(S), the entire right, title and interest in and to THE INVENTION and THE APPLICATION throughout the United States of America, including any and all United States Letters Patent granted on any non-provisional, division, continuation, and reissue of THE APPLICATION; and the entire right, title and interest in and to THE INVENTION throughout the world, including the right to apply for patents and inventor certificates in respect thereof and to claim priority pursuant to rights accorded ASSIGNOR(S) under the terms of the Paris International Convention and all other available international conventions and treaties; and the entire right, title and interest in and to any and all applications filed throughout the world in respect of THE INVENTION and to any and all patents, patents of addition, utility models, patents of importation, revalidation patents and inventor certificates which may be granted throughout the world in respect of THE INVENTION.

ALSO, ASSIGNOR(S) hereby agrees/agree to execute any documents that legally may be required in connection with the filing, prosecution and maintenance of THE INVENTION or any other patent application(s) or inventor certificate(s) in the United States and in foreign countries for THE INVENTION, including additional documents that may be required to affirm the rights of ASSIGNEE in and to THE INVENTION, all without further consideration. ASSIGNOR(S) also agrees/agree, without further consideration and at ASSIGNEE'S/ASSIGNEES' expense, to identify and communicate to ASSIGNEE(s) at ASSIGNEE'S/ASSIGNEES' request documents and information concerning THE INVENTION that are within ASSIGNOR'S/ASSIGNORS' possession or control, and to provide further assurances and testimony on behalf of ASSIGNEE(s) that lawfully may be required of ASSIGNOR(S) in respect of the prosecution, maintenance and defense of any patent application or patent encompassed within the terms of this instrument.

ASSIGNOR(S) also agrees/agree, without further consideration and at ASSIGNEE'S/ASSIGNEES' expense, to transfer the right to sue for past infringement to ASSIGNEE and at ASSIGNEE'S/ASSIGNEES' request documents and information concerning the enforcement of the right to sue within ASSIGNOR(S) possession or control, and to provide further assurances and testimony on behalf of ASSIGNEE(S) that lawfully may be required of ASSIGNOR(S) in respect of the right to sue of any patent encompassed within the terms of this instrument.

ASSIGNOR'S/ASSIGNORS' obligation under this instrument shall extend to ASSIGNOR'S/ASSIGNORS' heirs, executors, administrators and other legal representatives.

ASSIGNOR(S) hereby grants/grant the firm of Roberts Mlotkowski Safran & Cole, P.C of McLean, Virginia, 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.

ASSIGNOR(S) hereby authorizes/authorize and requests/request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent referred to above to ASSIGNEE of the entire right, title and interest in and to the same, for ASSIGNEE's sole use and behalf; and for the use and behalf of ASSIGNEE's legal representatives and successors, to the full end of the term for which such Letters Patent may be granted, as fully and entirely as the same would have been held by ASSIGNORS had this assignment and sale not been made.

Date 18-DEC-2017

Signature of Assignor

Mores

CHRISTOPHER FLORES

DOCKET NO. **PRD3310** Joint Inventors

PATENT REEL: 033907 FRAME: 0326

ASSIGNMENT

WHEREAS,

Ishtiyaque AHMAD

c/o Jubilant Biosys Ltd, 96, Industrial Suburb, 2nd Stage Yeswanthpur, Bangalore-560 022 INDIA;

Rajagopal BAKTHAVATCHALAM

67 Hickory Lane Madison, CT 06443 USA;

Sivaramakrishna BATTULA

c/o Jubilant Biosys Ltd, 96, Industrial Suburb, 2nd Stage Yeswanthpur, Bangalore-560 022 INDIA;

Henricus, Jacobus, Maria GIJSEN

Sprundelsebaan 87 4838GM Breda The Netherlands;

Saravanan VADIVELU

c/o Jubilant Biosys Ltd, 96, Industrial Suburb, 2nd Stage Yeswanthpur, Bangalore-560 022 INDIA;

Mark WALL 108 Manor Drive Lansdale, PA 19446 USA

hereinafter called "Assignors", have made certain new and useful inventions or discoveries relating to

SUBSTITUTED IMIDAZOLES AS N-TYPE CALCIUM CHANNEL BLOCKERS

Page 1 of 8

EDX/

for which they have on the day of , 2013 executed an application for Letters Patent of the United States; and

WHEREAS, JANSSEN PHARMACEUTICA NV, a corporation of **BELGIUM**, (hereinafter called "Assignee"), is desirous of acquiring Assignors' entire right, title, and interest therein:

THEREFORE, BE IΤ KNOWN that for and in NOW, consideration of the sum of One Dollar and other valuable considerations, the receipt of which is hereby acknowledged, Assignors have sold, assigned, and transferred, and do hereby sell, assign and transfer unto said Assignee their entire right, title and interest in and to all said inventions and discoveries disclosed in said application whose identification above by serial number and filing date, when available, is hereby authorized, and in and to said application, all substitutions, divisions, and continuations thereof, and in and to all Letters Patent, United States and foreign, that may be granted for said inventions and discoveries, and in and to all extensions, renewals, and reissues thereof, the same to be held and enjoyed by said Assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by Assignors if this Assignment and sale had not been made;

And Assignors hereby authorize and request the Commissioner of Patents of the United States to issue said Letters Patent in accordance with this Assignment;

And for the consideration aforesaid, Assignors covenant and agree with said Assignee that he/she has a full and unencumbered title to the inventions and discoveries above described and hereby assigned, which title they warrant unto said Assignee, its successors and assigns;

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IN TESTIMONY WHEREOF, Assignors have hereunto set their hands and seals this 22 day of June, 2014.

(L.S.) Ishtiyaque AHMAD

STATE OF) ss. COUNTY OF

BE IT REMEMBERED, That on this day of appeared Ishtiyaque AHMAD, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and $\ensuremath{\mathbb{I}}$ having first made known to him/her the contents thereof, he/she did acknowledge that he/she signed, sealed, and delivered the same as his/her voluntary act and deed for the uses and purposes therein expressed.

Notary Public

PATENT REEL: 033907 FRAME: 0329

Page 3 of 8

IN TESTIMONY WHEREOF, Assignors have hereunto set their hands and seals this day of _____, 2014.

(L.S.)

Rajagopal BAKTHAVATCHALAM

BE IT REMEMBERED, That on this day of 2014, before me, a Notary Public, personally appeared **Rajagopal BAKTHAVATCHALAM**, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him/her the contents thereof, he/she did acknowledge that he/she signed, sealed, and delivered the same as his/her voluntary act and deed for the uses and purposes therein expressed.

Notary Public

Page 4 of 8

IN TESTIMONY WHEREOF, Assignors have hereunto set their hands and seals this 26 day of \overline{June} , 2014.

<u>B</u>-<u>M</u>(L.S.) Sivaramakrishna BATTULA

STATE OF)) ss. COUNTY OF)

BE IT REMEMBERED, That on this _____ day of ______, 2014, before me, a Notary Public, personally appeared **Sivaramakrishna BATTULA**, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him/her the contents thereof, he/she did acknowledge that he/she signed, sealed, and delivered the same as his/her voluntary act and deed for the uses and purposes therein expressed.

Notary Public

Dana 5 af 0

IN TESTIMONY WHEREOF, Assignors have hereunto set their hands and seals this _____ day of _____, 2014.

_____ (L.S.)

Henricus, Jacobus, Maria GIJSEN

STATE OF ____)) ss. COUNTY OF)

BE IT REMEMBERED, That on this _____ day of _____, 2014, before me, a Notary Public, personally appeared Henricus, Jacobus, Maria GIJSEN, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him/her the contents thereof, he/she did acknowledge that he/she signed, sealed, and delivered the same as his/her voluntary act and deed for the uses and purposes therein expressed.

Notary Public

Page 6 of 8

IN TESTIMONY WHEREOF, Assignors have hereunto set their hands and seals this 26 day of <u>June</u>, 2014.



BE IT REMEMBERED, That on this day of , 2014, before me, a Notary Public, personally appeared **Saravanan VADIVELU**, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him/her the contents thereof, he/she did acknowledge that he/she signed, sealed, and delivered the same as his/her voluntary act and deed for the uses and purposes therein expressed.

Notary Public

Dogo 7 of 9

IN TESTIMONY WHEREOF, Assignors have hereunto set their hands and seals this _____ day of _____, 2014.

Mark WALL

BE IT REMEMBERED, That on this _____ day of _____, 2014, before me, a Notary Public, personally appeared Mark WALL, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him/her the contents thereof, he/she did acknowledge that he/she signed, sealed, and delivered the same as his/her voluntary act and deed for the uses and purposes therein expressed.

Notary Public

_____ (L.S.)

Page 8 of 8

DOCKET NO. PRD3310 Joint Inventors

ASSIGNMENT

WHEREAS,

Ishtiyaque AHMAD

c/o Jubilant Biosys Ltd, 96, Industrial Suburb, 2nd Stage Yeswanthpur, Bangalore-560 022 INDIA;

Rajagopal BAKTHAVATCHALAM 67 Hickory Lane

Madison, CT 06443 USA;

Sivaramakrishna BATTULA

c/o Jubilant Biosys Ltd, 96, Industrial Suburb, 2nd Stage Yeswanthpur, Bangalore-560 022 INDIA;

Henricus, Jacobus, Maria GIJSEN Sprundelsebaan 87 4838GM Breda The Netherlands;

Saravanan VADIVELU c/o Jubilant Biosys Ltd, 96, Industrial Suburb, 2nd Stage Yeswanthpur, Bangalore-560 022 INDIA;

Mark WALL 108 Manor Drive Lansdale, PA 19446 USA

hereinafter called "Assignors", have made certain new and useful inventions or discoveries relating to

SUBSTITUTED IMIDAZOLES AS N-TYPE CALCIUM CHANNEL BLOCKERS

Page 1 of 8

EPM

for which they have on the day of , 2013 executed an application for Letters Patent of the United States; and

WHEREAS, JANSSEN PHARMACEUTICA NV, a corporation of BELGIUM, (hereinafter called "Assignee"), is desirous of acquiring Assignors' entire right, title, and interest therein:

for and in NOW. THEREFORE, ΒE IT KNOWN that Dollar and other valuable consideration of the sum of One considerations, the receipt of which is hereby acknowledged, Assignors have sold, assigned, and transferred, and do hereby sell, assign and transfer unto said Assignee their entire right, title and interest in and to all said inventions and discoveries disclosed in said application whose identification above by serial number and filing date, when available, is hereby authorized, and in and to said application, all substitutions, divisions, and continuations thereof, and in and to all Letters Patent, United States and foreign, that may be granted for said inventions and discoveries, and in and to all extensions, renewals, and reissues thereof, the same to be held and enjoyed by said Assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by Assignors if this Assignment and sale had not been made;

And Assignors hereby authorize and request the Commissioner of Patents of the United States to issue said Letters Patent in accordance with this Assignment;

And for the consideration aforesaid, Assignors covenant and agree with said Assignee that he/she has a full and unencumbered title to the inventions and discoveries above described and hereby assigned, which title they warrant unto said Assignee, its successors and assigns;

IN TESTIMONY WHEREOF, Assignors have hereunto set their hands and seals this _____ day of _____, 2014.

_____ (L.S.) Ishtiyaque AHMAD

STATE OF ____)) ss. COUNTY OF

_____day of BE IT REMEMBERED, That on this , 2014, before me, a Notary Public, personally appeared Ishtiyaque AHMAD, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him/her the contents thereof, he/she did acknowledge that he/she signed, sealed, and delivered the same as his/her voluntary act and deed for the uses and purposes therein expressed.

Notary Public

Page 3 of 8

IN TESTIMONY WHEREOF, Assignors have hereunto set their hands and seals this day of _____, 2014.

(L.S.)

Rajagopal BAKTHAVATCHALAM

BE IT REMEMBERED, That on this day of 2014, before me, a Notary Public, personally appeared **Rajagopal BAKTHAVATCHALAM**, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him/her the contents thereof, he/she did acknowledge that he/she signed, sealed, and delivered the same as his/her voluntary act and deed for the uses and purposes therein expressed.

Notary Public

Page 4 of 8

IN TESTIMONY WHEREOF, Assignors have hereunto set their hands and seals this day of , 2014.

(L.S.)

Sivaramakrishna BATTULA

STATE OF ____)) ss. COUNTY OF)

1. 40 6

BE IT REMEMBERED, That on this <u>day</u> of , 2014, before me, a Notary Public, personally appeared **Sivaramakrishna BATTULA**, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him/her the contents thereof, he/she did acknowledge that he/she signed, sealed, and delivered the same as his/her voluntary act and deed for the uses and purposes therein expressed.

Notary Public

Page 5 of 8

		IN 1	ESTIMO	NY WHE	REOF	', P	ssignors	have	hereunto	set	their
hands	and	seal	s this	1gh	day	of	Tune		2014.		

(L.S.) Henricus, Jacobus, Maria GIJSEN

STATE OF ____) ss. COUNTY OF ____)

The above signature(s) has been seen by us, Notary -1011 Coppens at Vosselaar, and we certify it to be genuinely the signature(s) of Henricus, Jacobus, Maria GIJSEN



Notary Public

Page 6 of 8

IN TESTIMONY WHEREOF, Assignors have hereunto set their hands and seals this _____ day of _____, 2014.

(L.S.)

Saravanan VADIVELU

STATE OF)) ss. COUNTY OF)

BE IT REMEMBERED, That on this day of , 2014, before me, a Notary Public, personally appeared Saravanan VADIVELU, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him/her the contents thereof, he/she did acknowledge that he/she signed, sealed, and delivered the same as his/her voluntary act and deed for the uses and purposes therein expressed.

Notary Public

Page 7 of 8

IN TESTIMONY WHEREOF, Assignors have hereunto set their hands and seals this _____ day of _____, 2014.

Mark WALL

STATE OF))) SS. COUNTY OF)

BE IT REMEMBERED, That on this _____ day of _____, 2014, before me, a Notary Public, personally appeared Mark WALL, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him/her the contents thereof, he/she did acknowledge that he/she signed, sealed, and delivered the same as his/her voluntary act and deed for the uses and purposes therein expressed.

Notary Public

_____ (L.S.)

Page 8 of 8

DOCKET NO. PRD3310 Joint Inventors

ASSIGNMENT

WHEREAS, Is

Ishtiyaque AHMAD

c/o Jubilant Biosys Ltd, 96, Industrial Suburb, 2nd Stage Yeswanthpur, Bangalore-560 022 INDIA;

Rajagopal BAKTHAVATCHALAM 67 Hickory Lane

Madison, CT 06443 USA;

Sivaramakrishna BATTULA

c/o Jubilant Biosys Ltd, 96, Industrial Suburb, 2nd Stage Yeswanthpur, Bangalore-560 022 INDIA;

Henricus, Jacobus, Maria GIJSEN Sprundelsebaan 87 4838GM Breda The Netherlands;

Saravanan VADIVELU c/o Jubilant Biosys Ltd, 96, Industrial Suburb, 2nd Stage Yeswanthpur, Bangalore-560 022 INDIA;

Mark WALL 108 Manor Drive Lansdale, PA 19446 USA

hereinafter called "Assignors", have made certain new and useful inventions or discoveries relating to

SUBSTITUTED IMIDAZOLES AS N-TYPE CALCIUM CHANNEL BLOCKERS

PATENT REEL: 033207 FRAME: 0389

EPM

for which they have on the day of , 2013 executed an application for Letters Patent of the United States; and

WHEREAS, JANSSEN PHARMACEUTICA NV, a corporation of BELGIUM, (hereinafter called "Assignee"), is desirous of acquiring Assignors' entire right, title, and interest therein:

KNOWN that for and in BEITNOW, THEREFORE, consideration of the sum of One Dollar and other valuable considerations, the receipt of which is hereby acknowledged, Assignors have sold, assigned, and transferred, and do hereby sell, assign and transfer unto said Assignee their entire right, title and interest in and to all said inventions and discoveries disclosed in said application whose identification above by serial number and filing date, when available, is hereby authorized, and in and to said application, all substitutions, divisions, and continuations thereof, and in and to all Letters Patent, United States and foreign, that may be granted for said inventions and discoveries, and in and to all extensions, renewals, and reissues thereof, the same to be held and enjoyed by said Assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by Assignors if this Assignment and sale had not been made;

And Assignors hereby authorize and request the Commissioner of Patents of the United States to issue said Letters Patent in accordance with this Assignment;

And for the consideration aforesaid, Assignors covenant and agree with said Assignee that he/she has a full and unencumbered title to the inventions and discoveries above described and hereby assigned, which title they warrant unto said Assignee, its successors and assigns;

> PATENT REEL: 038207 FRAME: 0389

Page 2 of 8

IN TESTIMONY WHEREOF, Assignors have hereunto set their hands and seals this _____ day of _____, 2014.

(L.S.)

Ishtiyaque AHMAD

STATE OF)) ss. COUNTY OF)

BE IT REMEMBERED, That on this day of , 2014, before me, a Notary Public, personally appeared **Ishtiyaque AHMAD**, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him/her the contents thereof, he/she did acknowledge that he/she signed, sealed, and delivered the same as his/her voluntary act and deed for the uses and purposes therein expressed.

Notary Public

Page 3 of 8

IN TESTIMONY WHEREOF, Assignors have hereunto set their hands and seals this _____ day of _____, 2014.

(L.S.)

Rajagopal BAKTHAVATCHALAM

STATE	OF)		
)	ss.	
COLINTS	Z OF	7)		

BE IT REMEMBERED, That on this <u>day</u> of , 2014, before me, a Notary Public, personally appeared **Rajagopal BAKTHAVATCHALAM**, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him/her the contents thereof, he/she did acknowledge that he/she signed, sealed, and delivered the same as his/her voluntary act and deed for the uses and purposes therein expressed.

Notary Public

PATENT REEL: 044907 FRAME: 0498

Page 4 of 8

IN TESTIMONY WHEREOF, Assignors have hereunto set their hands and seals this _____ day of _____, 2014.

(L.S.)

Sivaramakrishna BATTULA

STATE OF)	
)	ss.
COUNTY OF)	

BE IT REMEMBERED, That on this _____ day of , 2014, before me, a Notary Public, personally appeared **Sivaramakrishna BATTULA**, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him/her the contents thereof, he/she did acknowledge that he/she signed, sealed, and delivered the same as his/her voluntary act and deed for the uses and purposes therein expressed.

Notary Public

Page 5 of 8

IN TESTIMONY WHEREOF, Assignors have hereunto set their hands and seals this _____ day of _____, 2014.

_____ (L.S.)

Henricus, Jacobus, Maria GIJSEN

STATE OF ____)) ss. COUNTY OF)

BE IT REMEMBERED, That on this _____ day of _____, 2014, before me, a Notary Public, personally appeared Henricus, Jacobus, Maria GIJSEN, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him/her the contents thereof, he/she did acknowledge that he/she signed, sealed, and delivered the same as his/her voluntary act and deed for the uses and purposes therein expressed.

Notary Public

Page 6 of 8

IN TESTIMONY WHEREOF, Assignors have hereunto set their hands and seals this _____ day of _____, 2014.

(L.S.)

Saravanan VADIVELU

BE IT REMEMBERED, That on this _____ day of _____, 2014, before me, a Notary Public, personally appeared Saravanan VADIVELU, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him/her the contents thereof, he/she did acknowledge that he/she signed, sealed, and delivered the same as his/her voluntary act and deed for the uses and purposes therein expressed.

Notary Public

Page 7 of 8

IN TESTIMONY WHEREOF, Assignors have hereunto set their hands and seals this 12 day of \overline{Jane} , 2014.

(L.S.)

STATE OF <u>PA</u>) COUNTY OF <u>Montgomeny</u> ss.

12th IT REMEMBERED, this BE That on day of 2014, before me, a Notary Public, personally appeared Mark WALL, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him/her the contents thereof, he/she did acknowledge that he/she signed, sealed, and delivered the same as his/her voluntary act and deed for the uses and purposes therein expressed.

Chnotin In Rayler

Notary Public

COMMONWEALTH OF PENNSYLVANIA Notariai Seei Christine M. Razler, Notary Public Lower Gwynedd Twp., Montgomery County My Commission Expires Dec. 14, 2015 MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

Page 8 of 8

DOCKET NO. PRD3310 Joint Inventors

ASSIGNMENT

WHEREAS,

Ishtiyaque AHMAD

c/o Jubilant Biosys Ltd, 96, Industrial Suburb, 2nd Stage Yeswanthpur, Bangalore-560 022 INDIA;

Rajagopal BAKTHAVATCHALAM

67 Hickory Lane Madison, CT 06443 USA;

Sivaramakrishna BATTULA

c/o Jubilant Biosys Ltd, 96, Industrial Suburb, 2nd Stage Yeswanthpur, Bangalore-560 022 INDIA;

Henricus, Jacobus, Maria GIJSEN Sprundelsebaan 87 4838GM Breda The Netherlands;

Saravanan VADIVELU

c/o Jubilant Biosys Ltd, 96, Industrial Suburb, 2nd Stage Yeswanthpur, Bangalore-560 022 INDIA;

Mark WALL 108 Manor Drive Lansdale, PA 19446 USA

hereinafter called "Assignors", have made certain new and useful inventions or discoveries relating to

SUBSTITUTED IMIDAZOLES AS N-TYPE CALCIUM CHANNEL BLOCKERS

PATENT REEL: 033207 FRAME: 0397

EPM

for which they have on the day of , 2013 executed an application for Letters Patent of the United States; and

WHEREAS, JANSSEN PHARMACEUTICA NV, a corporation of BELGIUM, (hereinafter called "Assignee"), is desirous of acquiring Assignors' entire right, title, and interest therein:

NOW, KNOWN that for THEREFORE, BE IT and in consideration of the sum of One Dollar and other valuable considerations, the receipt of which is hereby acknowledged, Assignors have sold, assigned, and transferred, and do hereby sell, assign and transfer unto said Assignee their entire right, title and interest in and to all said inventions and discoveries disclosed in said application whose identification above by serial number and filing date, when available, is hereby authorized, and in and to said application, all substitutions, divisions, and continuations thereof, and in and to all Letters Patent, United States and foreign, that may be granted for said inventions and discoveries, and in and to all extensions, renewals, and reissues thereof, the same to be held and enjoyed by said Assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by Assignors if this Assignment and sale had not been made:

And Assignors hereby authorize and request the Commissioner of Patents of the United States to issue said Letters Patent in accordance with this Assignment;

And for the consideration aforesaid, Assignors covenant and agree with said Assignee that he/she has a full and unencumbered title to the inventions and discoveries above described and hereby assigned, which title they warrant unto said Assignee, its successors and assigns;

Page 2 of 8

IN TESTIMONY WHEREOF, Assignors have hereunto set their hands and seals this _____ day of _____, 2014.

_____ (L.S.)

Ishtiyaque AHMAD

STATE OF _____)) SS. COUNTY OF)

BE IT REMEMBERED, That on this _____ day of _____, 2014, before me, a Notary Public, personally appeared Ishtiyaque AHMAD, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him/her the contents thereof, he/she did acknowledge that he/she signed, sealed, and delivered the same as his/her voluntary act and deed for the uses and purposes therein expressed.

Notary Public

PATENT REEL: 033207 FRAME: 0399

Page 3 of 8

IN TESTIMONY WHEREOF, Assignors have hereunto set their hands and seals this 34 day of June, 2014.

Rajagopal BAKTHAVATCHALAM (L.S.)

STATE OF Connechant COUNTY OF NEW LANG

of IT REMEMBERED, this dav BEThat on 2014, before me, a Notary Public, personally appeared Rajagopal BAKTHAVATCHALAM, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him/her the contents thereof, he/she did acknowledge that he/she signed, sealed, and delivered the same as his/her voluntary act and deed for the uses ALIRETTA C. MILLER and purposes therein expressed.

Notary Public My Commission expires 11/30/2014

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IN TESTIMONY WHEREOF, Assignors have hereunto set their hands and seals this _____ day of _____, 2014.

(L.S.)

Sivaramakrishna BATTULA

STATE OF)
) ss.
COUNTY OF	}

BE IT REMEMBERED, That on this <u>day</u> of , 2014, before me, a Notary Public, personally appeared **Sivaramakrishna BATTULA**, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him/her the contents thereof, he/she did acknowledge that he/she signed, sealed, and delivered the same as his/her voluntary act and deed for the uses and purposes therein expressed.

Notary Public

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IN TESTIMONY WHEREOF, Assignors have hereunto set their hands and seals this _____ day of _____, 2014.

(L.S.)

Henricus, Jacobus, Maria GIJSEN

STATE OF)) ss. COUNTY OF)

BE IT REMEMBERED, That on this _____ day of _____, 2014, before me, a Notary Public, personally appeared Henricus, Jacobus, Maria GIJSEN, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him/her the contents thereof, he/she did acknowledge that he/she signed, sealed, and delivered the same as his/her voluntary act and deed for the uses and purposes therein expressed.

Notary Public

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PATENT REEL: 046207 FRAME: 0462

IN TESTIMONY WHEREOF, Assignors have hereunto set their hands and seals this _____ day of _____, 2014.

(L.S.)

Saravanan VADIVELU

BE IT REMEMBERED, That on this _____ day of ______, 2014, before me, a Notary Public, personally appeared Saravanan VADIVELU, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him/her the contents thereof, he/she did acknowledge that he/she signed, sealed, and delivered the same as his/her voluntary act and deed for the uses and purposes therein expressed.

Notary Public

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IN TESTIMONY WHEREOF, Assignors have hereunto set their hands and seals this _____ day of _____, 2014.

Mark WALL

STATE OF)) ss. COUNTY OF)

BE IT REMEMBERED, That on this _____ day of ______, 2014, before me, a Notary Public, personally appeared Mark WALL, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him/her the contents thereof, he/she did acknowledge that he/she signed, sealed, and delivered the same as his/her voluntary act and deed for the uses and purposes therein expressed.

Notary Public

(L.S.)

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PATENT REEL: 088207 FRAME: 0468

RECORDED: 02/39/2014