PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date	
Peter J. CONNOLLY	10/14/2010	
Shu-Chen LIN	10/19/2010	
Mark J. MACIELAG	10/21/2010	
Yue-Mei ZHANG	10/14/2010	

RECEIVING PARTY DATA

Name:	Janssen Pharmaceutica N.V.
Street Address:	Turnhoutseweg 30
City:	Beerse
State/Country:	BELGIUM
Postal Code:	B2340

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13451652

CORRESPONDENCE DATA

Fax Number: (732)524-2808 Phone: 7325243711

Email: JNJUSPATENT@CORUS.JNJ.COM

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

via US Mail.

Correspondent Name: Philip S. JOHNSON
Address Line 1: JOHNSON & JOHNSON
Address Line 2: One Johnson & Johnson Plaza
Address Line 4: New Brunswick, NEW JERSEY 08933

ATTORNEY DOCKET NUMBER:	PRD 3120USDIV1
NAME OF SUBMITTER:	Eleanor MARINO

PATENT

REEL: 028080 FRAME: 0896

\$40,00 134516

Total Attachments: 10
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ASSIGNMENT

Welsh + Mc Kean Roads Po Box 176,
WHEREAS, Peter J. Connolly of 74-Delwick Lane, New
No. NJ; Shu-Chen Lin of 10 Manning Court, High Bridge, (PT)
J. Macielag of Welsh & Mc Kean Roads Providence, NJ; Shu-Chen Lin of 10 Manning Court, High Bridge, NJ; Mark J. Macielag of Welsh & Mc Kean Roads, P.O. Box 776, Spring House, PA and Yue-Mei Zhang of Welsh & Mc Kean Roads, P.O. Box 776, Spring House, PA respectively (hereinafter called "Assignors"), have made certain new and useful inventions or discoveries relating to

PYRAZINES AS DELTA OPIOID RECEPTOR MODULATORS

for which they have executed an application for Letters Patent of the United States Patent and Trademark Office; and

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

THEREFORE, IT KNOWN that for and BENOW, 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;

for the consideration aforesaid, Assignors covenant and agree with said Assignee that he 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;

And for the consideration aforesaid, Assignors further covenant and agree that they will, whenever requested, but without cost to them promptly communicate to said Assignee or its representatives any facts known to them relating to said inventions and discoveries, testify in any interference or legal proceedings involving said inventions and discoveries, and execute any additional papers that may be necessary to enable said Assignee or its representatives, successors, nominees, or assigns to secure full and complete protection for the said inventions and discoveries or that may be necessary to vest in said Assignee the complete title to the said inventions and discoveries and patents hereby conveyed and to enable it to record said title.

IN TESTIMONY WHEREOF, Assignors have hereunto set their hands and seals this Him day of October, 2010

Peter J. Compolly (L.S.)

STATE OF Pennytrania COUNTY OF Montgomery.

BE IT REMEMBERED, That on this 14th day of October 2010, before me, a Notary Public, personally appeared Peter J. Connolly who I am satisfied are the persons named in and who executed the foregoing instrument in my presence, and I having first made known to them the contents thereof, they did acknowledge that they signed, sealed, and delivered the same as their voluntary act and deed for the uses and purposes therein expressed.

Chrotine M Racler
Notary Public

COMMONWEALTH OF PENNSYLVANIA

Notarial Seal

Christine M. Razler, Notary Public Lower Gwynedd Twp., Montgomery County My Commission Expires Nov. 19, 2011

Member, Pennsylvania Association of Notaries

IN TESTIMONY WHEREOF, hands and seals this da			nereunto	set	their
Shu-Chen Lir	n			(L.S	.)
STATE OF)) ss.					
BE IT REMEMBERED, 2010, before me, a Notary Pu Lin, who I am satisfied a executed the foregoing instr first made known to them acknowledge that they signed, their voluntary act and deed expressed.	ublic, per re the per ument in r the cont , sealed,	sonally ersons my pres tents t and del	appeare named in ence, and thereof, livered t	d Shu n and d I h they he sa	d who naving did
	-	Nota	ry Public	 :	

IN TESTIMONY WHEREOF, Assignors have hereunto set their hands and seals this $2/f^{2}$ day of 0.000, 2010

Mark J Macielag (L.S.)

STATE OF Pennsylvania country of Montgomery ss.

BE IT REMEMBERED, That on this day of of, 2010, before me, a Notary Public, personally appeared Mark J. Macielag, who I am satisfied are the persons named in and who executed the foregoing instrument in my presence, and I having first made known to them the contents thereof, they did acknowledge that they signed, sealed, and delivered the same as their voluntary act and deed for the uses and purposes therein expressed.

COMMONWEALTH OF PENNSYLVANIA

Christine M Rayler-

Notarial Seal Christine M. Razler, Notary Public Lower Gwynedd Twp.. Montgomery County My Commission Expires Nov. 19, 2011

Member, Pennsylvania Association of Notarles

IN TESTIMONY WHEREOF, Assignors have hereunto set their hands and seals this 14 day of 0cf., 2010

Yue-Mei Zhang (£.S.)

STATE OF Pennylana county of Minigrating

BE IT REMEMBERED, That on this μ^{th} day of μ^{th} , 2010, before me, a Notary Public, personally appeared Yue-Mei Zhang, who I am satisfied are the persons named in and who executed the foregoing instrument in my presence, and I having first made known to them the contents thereof, they did acknowledge that they signed, sealed, and delivered the same as their voluntary act and deed for the uses and purposes therein expressed.

Christine M Rayler Notary Public

COMMONWEALTH OF PENNSYLVANIA

Notarial Sea Christine M. Razier, Notary Public Lower Gwynedd Twp., Montgomery Count My Commission Expires No. 19, 2011

Member, Penasylvania Association of Votaries

ASSIGNMENT

WHEREAS, Peter J. Connolly of 74 Delwick Lane, New Providence, NJ; Shu-Chen Lin of 10 Manning Court, High Bridge, 4875 Redfield Road NJ; Mark J. Macielag of Welsh & Mc Kean Roads, P.O. Box 776, Doylestown, PA Spring House, PA and Yue-Mei Zhang of Welsh & Mc Kean Roads, P.O. Box 776, Spring House, PA respectively (hereinafter called "Assignors"), have made certain new and useful inventions or discoveries relating to

PYRAZINES AS DELTA OPIOID RECEPTOR MODULATORS

for which they have executed an application for Letters Patent of the United States Patent and Trademark Office; and

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

NOW, THEREFORE, BE IT KNOWN that for 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 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;

And for the consideration aforesaid, Assignors further covenant and agree that they will, whenever requested, but without cost to them promptly communicate to said Assignee or its representatives any facts known to them relating to said inventions and discoveries, testify in any interference or legal proceedings involving said inventions and discoveries, and execute any additional papers that may be necessary to enable said Assignee or its representatives, successors, nominees, or assigns to secure full and complete protection for the said inventions and discoveries or that may be necessary to vest in said Assignee the complete title to the said inventions and discoveries and patents hereby conveyed and to enable it to record said title.

IN TESTIMONY WHEREOF, Assignors have hereunto set their hands and seals this $$\operatorname{day}$ \ of \ \ , \ 2010$

Peter J. Connolly

STATE OF)

OUNTY OF)

BE IT REMEMBERED, That on this day of , 2010, before me, a Notary Public, personally appeared Peter J. Connolly who I am satisfied are the persons named in and who executed the foregoing instrument in my presence, and I having first made known to them the contents thereof, they did acknowledge that they signed, sealed, and delivered the same as their voluntary act and deed for the uses and purposes therein expressed.

Notary Public

IN TESTIMONY WHEREOF, Assignors have hereunto set their hands and seals this 19 day of $\mathcal{O}\mathrm{ct}$, 2010

Shu-lhan hi (L.S.)

STATE OF PA)

) ss.

COUNTY OF Bucks

BE IT REMEMBERED, That on this 19 day of Oct, 2010, before me, a Notary Public, personally appeared Shu-Chen Lin, who I am satisfied are the persons named in and who executed the foregoing instrument in my presence, and I having first made known to them the contents thereof, they did acknowledge that they signed, sealed, and delivered the same as their voluntary act and deed for the uses and purposes therein expressed.

Notary Public

NOTARIAL SEAL
CHIRAYU SHAH
NOTARIY PUBLIC
BENSALEM TWP. BUCKS COUNTY
My Commission Expires Aug 2, 2011

hands and seals	this day	_	2010	o sec thei
	Mark J. Macie	elag	. .	(L.S.)
STATE OF) COUNTY OF)) ss.			
BE IT 2010, before me Macielag, who I executed the forfirst made knowledge that their voluntary expressed.	am satisfied regoing instrumous to them to they signed,	blic, pers are the p ment in my the conte sealed, a	sonally appe persons named presence, ents thereof nd delivered	ared Mark J d in and who and I havind f, they did the same a
			Notary Publ	ic

			Assignors day of			set	their
	;	Yue-Mei Zh	ang			(L.S	.)
STATE OF	•) ss.					
Zhang, wh executed first mad acknowledd	ore me, o I am the fore de known ge that untary a	a Notary satisfied going instant to the they signe	That on Public, per are the rument in the cord, sealed, and for the	ersonal person: my pre itents and de	ly appear is named in sence, an thereof, elivered to	n an d I h they the sa	ue-Mei d who naving y did ame as
				Nota	ary Public	:	

RECORDED: 04/20/2012