Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Thomas P. Markotan	01/09/2007
Robert W. Tuman	12/21/2006
Richard Alexander	01/09/2007
Jeremy M Travins	01/03/2007
Jan L. Sechler	01/14/2007
Anna C. Maroney	01/02/2007
Tianbao Lu	01/05/2007
Kristi A. Leonard	01/05/2007
Ehab Khalil	01/12/2007
Heather Rae Hufnagel	01/09/2007
Robert A. Galemmo	12/22/2006
Maxwell D. Cummings	01/09/2007
Richard W. Connors	12/28/2006
Dana L. Johnson	01/05/2007

RECEIVING PARTY DATA

Name:	Janssen Pharmaceutica N.V.
Street Address:	Turnhoutseweg 30
City:	Beerse
State/Country:	BELGIUM
Postal Code:	B-2340

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11612020

CORRESPONDENCE DATA

Fax Number: (732)524-2808

PATENT REEL: 019293 FRAME: 0892

500277025

X40.00

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 7325241495

Email: JNJUSPATENT@CORUS.JNJ.COM

Correspondent Name: Philip S. Johnson, Esq.

Address Line 1: One Johnson & Johnson Plaza

Address Line 4: New Brunswick, NEW JERSEY 08933

ATTORNEY DOCKET NUMBER: PRD-2584USNP

NAME OF SUBMITTER: Christine A, Kochmann

Total Attachments: 78

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ASSIGNMENT

Serial No.

11/612,020

Filed

December 18, 2006

WHEREAS.

Alexander, Richard, residing at: 40 Bristol Lane Newark, De 19711;
Connors, Richard W., residing at 424 Belle Lane, Harleysville, PA 19438;
Cummings, Maxwell D., residing at 659 West Valley Road, Wayne, PA 19087;
Galemmo, Robert A, residing at 323 Paoli Woods, Paoli, PA 19301;
Hufnagel, Heather Rae, residing at 64 Glen Manor Lane, Glenmoore, PA 19343;
Johnson, Dana L., residing at 1343 Lonely Cottage Road, Upper Black Eddy, PA 18972;
Khalil, Ehab, residing at 148 Mountain View Drive, West Chester, PA 19380;
Leonard, Kristi A., residing at 36 W. Mill Road, Flourtown, PA 19031;
Lu, Tianbao, residing at 42 Livery Drive, Churchville, PA 18966;
Maroney, Anna C., residing at 696 Meadowbrook Lane, Media, PA 19063;
Sechler, Jan L., residing at 5678 S. Deer Run Road, Doylestown, PA 18901;
Travins, Jeremy M., residing at 380 Township Line Road, Downingtown, PA,19335;
Tuman, Robert W., residing at 103 Homestead Court, Chalfont, PA 18914;
Markotan, Thomas P., residing at 506 Estate Rd, Morgantown, PA 19543;

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

TRIAZOLOPYRIDAZINES AS KINASE MODULATORS

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

WHEREAS, Janssen Pharmaceutica, N.V., a company under the law 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 to them moving, 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;

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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,	Assignor	has	hereunto	set	his	hand	and	seal	this	day	y of
	, 2006.	_										

		(L.S.)
	a	Richard ALEXANDER
STATE OF)
COUNTY OF) ss.)

BE IT REMEMBERED, That on this day of , 200__, before me, a Notary Public, personally appeared Richard Alexander, 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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day of

IN TESTIMONY WH , 2006.	EREOF, Assignor has her	reunto set his hand and seal t	his day of
	(L Richard W. Connors	S.)	
STATE OF) ss. COUNTY OF)		
Notary Public, persor and who executed thim/her the contents	he foregoing instrument in thereof, he/she did acknow	this day of , 200 Connors, who I am satisfied is the my presence, and I having firs wledge that he/she signed, seal he uses and purposes therein exp	e person named in st made known to led, and delivered
	. —	Notary Public	
IN TESTIMONY WE	IEREOF, Assignor has he	reunto set his hand and seal t	this day of
STATE OF) ss. COUNTY OF BE I	(L Maxwell D. Cummings)) F REMEMBERED, That or	S.) n this day of , 200), before me, a
Notary Public, perso in and who execute him/her the contents	nally appeared Maxwell D. (d the foregoing instrument i s thereof, he/she did ackno	Cummings, who I am satisfied is in my presence, and I having first wledge that he/she signed, seal ne uses and purposes therein exp	the person named st made known to led, and delivered
		Notary Public	

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day of

, 2006.				
	Galemmo, Robert A.	(L.S.)	,	
STATE OF) ss. COUNTY OF)			
Notary Public, persona and who executed the him/her the contents t	REMEMBERED, That ally appeared Robert A. e foregoing instrument hereof, he/she did ackr luntary act and deed for	Galemmo, who in my presenc nowledge that I	I am satisfied is e, and I having ne/she signed, s	first made known to sealed, and delivered
	-	İ	Notary Public	
IN TESTIMONY WHE , 2006.	EREOF, Assignor has	hereunto set h	is hand and sea	al this day of
	Heather Rae Hufnage	(L.S.)		
STATE OF)			
) ss. COUNTY OF)			
Notary Public, persona in and who executed him/her the contents	REMEMBERED, That ally appeared Heather F the foregoing instrumer thereof, he/she did ack pluntary act and deed fo	Rae Hufnagel, w nt in my preser nowledge that	tho I am satisfied ice, and I having he/she signed, s	j first made known to sealed, and delivered

IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this

DOCKET NO. PRD-2584USNP Joint Inventors Page 5 of 9

IN TESTIMONY WHI , 200	EREOF, Assignor has	s hereunto se	t his hand an	d seal this	day of
	Dana L. Johnson	(L.S.)			
STATE OF)				
) ss. COUNTY OF)				
Notary Public, persor and who executed the him/her the contents	REMEMBERED, That ally appeared Dana Jone foregoing instrument thereof, he/she did acoluntary act and deed	. Johnson, wh nt in my prese cknowledge th	o I am satisfie ence, and I ha at he/she sign	iving first mad led, sealed, ar	on named in le known to nd delivered
			Notary Publ	ic	
IN TESTIMONY WH	EREOF, Assignor ha	s hereunto se	t his hand an	d seal this	day of
	Ehab Khalil	(L.S.)			
STATE OF)				
) ss. COUNTY OF)				
Notary Public, perso who executed the for the contents thereof,	REMEMBERED, The nally appeared Ehab regoing instrument in reference the help and deed for the us	Khalil, who I a my presence, a lge that he/she	m satisfied is and I having fir signed, seale	st made know d, and delivere	med in and n to him/her
			Notani Buh	lio	

DOCKET NO. PRD-2584USNP Joint Inventors Page 6 of 9

IN TESTIMONY WH , 200	IEREOF, Assignor has I	hereunto set his hand and seal this	day of
	Kristi A. Leonard	(L.S.)	
STATE OF)		
) ss. COUNTY OF)		
Notary Public, perso and who executed thim/her the contents	he foregoing instrument thereof, he/she did ack	on this day of , 200, be Leonard, who I am satisfied is the persor in my presence, and I having first made nowledge that he/she signed, sealed, and the uses and purposes therein expressed	n named in e known to d delivered
		Notary Public	
IN TESTIMONY WI	HEREOF, Assignor has	hereunto set his hand and seal this	day of
		_ (L.S.)	
	Tianbao Lu		
STATE OF) ss.)		
COUNTY OF)		
Notary Public, person who executed the for the contents thereof	onally appeared Tianbao pregoing instrument in my , he/she did acknowledge	on this day of , 200, be Lu, who I am satisfied is the person nar presence, and I having first made known that he/she signed, sealed, and delivere and purposes therein expressed.	med in and to him/her
		Notary Public	

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IN TESTIMONY WHE , 200	REOF, Assignor has hereunto set his hand and seal this day of
	Anna C. Maroney (L.S.)
STATE OF)
) ss. COUNTY OF)
Notary Public, persona and who executed the him/her the contents the	REMEMBERED, That on this day of , 200, before me, a lly appeared Anna C. Maroney, who I am satisfied is the person named in foregoing instrument in my presence, and I having first made known to hereof, he/she did acknowledge that he/she signed, sealed, and delivered luntary act and deed for the uses and purposes therein expressed.
	Notary Public
IN TESTIMONY WHE	REOF, Assignor has hereunto set his hand and seal this day of
	Jan L. Sechler (L.S.)
STATE OF)
COUNTY OF)
Notary Public, persona who executed the fore the contents thereof, h	REMEMBERED, That on this day of , 200, before me, a ally appeared Jan L. Sechler, who I am satisfied is the person named in and going instrument in my presence, and I having first made known to him/her ne/she did acknowledge that he/she signed, sealed, and delivered the same t and deed for the uses and purposes therein expressed.

IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal the Tanuary , 2007.	nis 3 ²¹ day of
Jeremy M. Travins	
STATE OF \mathcal{P}_{Λ})) ss.	
COUNTY OF Chester)	
Notary Public, personally appeared Jeremy M. Travins, who I am satisfied is the and who executed the foregoing instrument in my presence, and I having first him/her the contents thereof, he/she did acknowledge that he/she signed, sealed the same as his/her voluntary act and deed for the uses and purposes therein expension Notarial SEAL DEBORAH L. DeRITO, Notary Public East Pikeland Twp., Chester County My Commission Expires June 3, 2009 IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal the 1, 200.	person named in made known to ed, and delivered ressed.
(L.S.)	
Robert W. Tuman	
STATE OF)	
) ss. COUNTY OF)	
BE IT REMEMBERED, That on this day of , 200_Notary Public, personally appeared Robert W. Tuman, who I am satisfied is the and who executed the foregoing instrument in my presence, and I having first him/her the contents thereof, he/she did acknowledge that he/she signed, sealed the same as his/her voluntary act and deed for the uses and purposes therein expenses.	made known to ed, and delivered
Notary Public	

DOCKET NO. PRD-2584USNP Joint Inventors Page 9 of 9

IN TESTIMON' , 20	Y WHERE()0	OF, Assignor	has hereunto	set his	hand	and	seal th	nis	day of
	Tho	omas P. Marko	tan (L.S.)						
STATE OF	.)							
COUNTY OF) ss.)							
Notary Public, pin and who exe him/her the cor the same as his	personally a ecuted the f intents there	oregoing instreof, he/she did	nas P. Markot ument in my p Lacknowledge	an, who presence that he	o I [°] am s e, and e/she s	satisf I hav signe	ied is ti /ing firs d, seak	he persor st made k ed, and c	n named known to
				N	otary P	ublic			

ASSIGNMENT

Serial No.

11/612,020

Filed

December 18, 2006

WHEREAS,

Alexander, Richard, residing at: 40 Bristol Lane Newark, De 19711;
Connors, Richard W., residing at 424 Belle Lane, Harleysville, PA 19438;
Cummings, Maxwell D., residing at 659 West Valley Road, Wayne, PA 19087;
Galemmo, Robert A, residing at 323 Paoli Woods, Paoli, PA 19301;
Hufnagel, Heather Rae, residing at 64 Glen Manor Lane, Glenmoore, PA 19343;
Johnson, Dana L., residing at 1343 Lonely Cottage Road, Upper Black Eddy, PA 18972;
Khalil, Ehab, residing at 148 Mountain View Drive, West Chester, PA 19380;
Leonard, Kristi A., residing at 36 W. Mill Road, Flourtown, PA 19031;
Lu, Tianbao, residing at 42 Livery Drive, Churchville, PA 18966;
Maroney, Anna C., residing at 696 Meadowbrook Lane, Media, PA 19063;
Sechler, Jan L., residing at 5678 S. Deer Run Road, Doylestown, PA 18901;
Travins, Jeremy M., residing at 380 Township Line Road, Downingtown, PA,19335;
Tuman, Robert W., residing at 103 Homestead Court, Chalfont, PA 18914;
Markotan, Thomas P., residing at 506 Estate Rd, Morgantown, PA

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

TRIAZOLOPYRIDAZINES AS KINASE MODULATORS

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

WHEREAS, Janssen Pharmaceutica, N.V., a company under the law 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 to them moving, 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 filling 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:

DOCKET NO. PRD-2584USNP Joint Inventors Page 2 of 9

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 WHE , 2006.	REOF, Assignor ha	s hereunto set	his hand and	d seal this	day of
	Richard ALE	XANDER (L.S.)			
STATE OF)				
COUNTY OF) ss.)				
BE IT Notary Public, persona and who executed the him/her the contents t the same as his/her vo	e foregoing instrume hereof, he/she did a	d Alexander, what in my prese cknowledge that	no I am satisfic ince, and I ha at he/she sign	ed is the pe ving first med, sealed,	nade known to and delivered
			Notary Publi	ic	•••••

DOCKET NO. PRD-2584USNP Joint Inventors Page 3 of 9

day of

IN TESTIMONY WHEREOF, Assignor has here, 2006.	unto set his hand and seal this day of
(L.S Richard W. Connors	5.)
STATE OF) ss. COUNTY OF BE IT REMEMBERED, That on to the same as his/her voluntary act and deed for the state of the s	nnors, who I am satisfied is the person named in my presence, and I having first made known to edge that he/she signed, sealed, and delivered
IN TESTIMONY WHEREOF, Assignor has here, 2006.	Notary Public unto set his hand and seal this day of
Maxwell D. Cummings STATE OF) ss. COUNTY OF BE IT REMEMBERED, That on the Notary Public, personally appeared Maxwell D. Curin and who executed the foregoing instrument in him/her the contents thereof, he/she did acknowlethe same as his/her voluntary act and deed for the	his day of , 200, before me, a mmings, who I am satisfied is the person named my presence, and I having first made known to edge that he/she signed, sealed, and delivered
-0.00-100-100-100-100-100-100-100-100-10	Notary Public

DOCKET NO. PRD-2584USNP Joint Inventors Page 4 of 9

IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this day of , 2006.
Galemmo, Robert A.
STATE OF)
) ss. COUNTY OF)
BE IT REMEMBERED, That on this day of , 200, before me, a Notary Public, personally appeared Robert A. Galemmo, 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
IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this day of , 2006.
(L.S.) Heather Rae Hufnagel
STATE OF)
OUNTY OF)
BE IT REMEMBERED, That on this day of , 200, before me, a Notary Public, personally appeared Heather Rae Hufnagel, 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.

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N TESTIMONY WH , 200	EREOF, Assignor h	as hereunto set h	nis hand and seal this	day of
	Dana L. Johnson	(L.S.)		
STATE OF) ss. COUNTY OF)			
Notary Public, persor and who executed the nim/her the contents	ne foregoing instrum thereof, he/she did	J. Johnson, who lent in my presence acknowledge that	day of , 200 l am satisfied is the pece, and I having first r he/she signed, sealed purposes therein expre	nade known to and delivered
			Notary Public	
N TESTIMONY WH , 200	EREOF, Assignor h	as hereunto set h	nis hand and seal this	day of
er Service	A.	(L.S.)		

STATE OF PENNSY/VARIA)
) ss.
COUNTY OF Delaware)

BE IT REMEMBERED, That on this 12 day of 501, 2007, before me, a Notary Public, personally appeared Ehab Khalil, 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.

COMMONWEALTH OF PENNSYLVANIA

Notartal Seal Brigid A. Smyth, Notary Public Radnor Two., Delaware County My Commission Expires Oct. 27, 2007

Member, Pennsylvania Association Of Notaries

DOCKET NO. PRD-2584USNP Joint Inventors Page 6 of 9

IN TESTIMONY WH , 200	IEREOF, Assignor has hereunto set his hand and seal this day o
	(L.S.) Kristi A. Leonard
STATE OF	
) ss. COUNTY OF)
Notary Public, perso and who executed t him/her the contents	REMEMBERED, That on this day of , 200, before me, a nally appeared Kristi A. Leonard, who I am satisfied is the person named in the foregoing instrument in my presence, and I having first made known to thereof, he/she did acknowledge that he/she signed, sealed, and delivered voluntary act and deed for the uses and purposes therein expressed.
	Notary Public
IN TESTIMONY WH , 200	IEREOF, Assignor has hereunto set his hand and seal this day of
	(L.S.) Tianbao Lu
STATE OF)
) ss. COUNTY OF)
Notary Public, perso who executed the fo the contents thereof,	REMEMBERED, That on this day of , 200, before me, a nally appeared Tianbao Lu, who I am satisfied is the person named in and regoing instrument in my presence, and I having first made known to him/her he/she did acknowledge that he/she signed, sealed, and delivered the same act and deed for the uses and purposes therein expressed.
	Notary Public

DOCKET NO. PRD-2584USNP Joint Inventors Page 7 of 9

IN TESTIMON, 2	NY WHE 200	REOF, Assignor	has hereunto	set his hand a	nd seal this	day of
		Anna C. Marone	(L.S.)			
STATE OF)				
COUNTY OF) SS.)				
and who exect him/her the co	persona cuted the ontents th	REMEMBERED, Illy appeared Ann foregoing instru nereof, he/she di untary act and de	ia C. Maroney, ment in my pr d acknowledge	esence, and I h that he/she sig	ied is the person aving first made ned, sealed, and	n named in e known to delivered
				Notary Pub	olic	
IN TESTIMON	NY WHE 200	REOF, Assignor	has hereunto	set his hand ar	nd seal this	day of
		Jan L. Sechler	(L.S.)			
STATE OF)				
COUNTY OF) ss.)				
who executed the contents the	persona the foreç nereof, he	REMEMBERED, Ily appeared Jan going instrument e/she did acknow and deed for the	L. Sechler, who in my presence ledge that he/s	o I am satisfied is e, and I having fil she signed, seale	s the person nar rst made known ed, and delivered	med in and to him/her
				Notary Pub	olic .	

DOCKET NO. PRD-2584USNP Joint Inventors Page 8 of 9

IN TESTIMONY WHI , 200	EREOF, Assignor has	hereunto set his hand and seal this	day of
	Jeremy M. Travins	_ (L.S.)	
STATE OF)		
) ss. COUNTY OF)		
Notary Public, personand who executed the him/her the contents	e foregoing instrument thereof, he/she did ack	on this day of , 200, b. M. Travins, who I am satisfied is the persion my presence, and I having first macrowledge that he/she signed, sealed, a rethe uses and purposes therein expresser	on named in de known to nd delivered
		Notary Public	
IN TESTIMONY WHI	EREOF, Assignor has	hereunto set his hand and seal this	day of
	Robert W. Tuman	_ (L.S.)	
STATE OF)		
) ss. COUNTY OF)		
Notary Public, person and who executed the him/her the contents	e foregoing instrument thereof, he/she did ack	on this day of , 200, b I. Tuman, who I am satisfied is the person in my presence, and I having first macknowledge that he/she signed, sealed, a per the uses and purposes therein expresses	de known to
		Notary Public	

DOCKET NO. PRD-2584USNP Joint Inventors Page 9 of 9

IN TESTIMONY WHE	REOF, Assignor ha	is hereunto se	t his hand and	d seal this	day of
, 200					
		(1.0)			
	Thomas P. Markota	(L.S.) n			
CTATE OF	,				
STATE OF) ss.)				
COUNTY OF)				
BE IT	REMEMBERED, Th	at on this	day of	, 200, b	efore me, a
Notary Public, persona	Illy appeared Thoma	s P. Markotan,	who I am satis	sfied is the pe	erson named
in and who executed thim/her the contents the	ne toregoing instrum hereof, he/she did a	ient in my pres cknowledge th:	ience, and I ha at he/she signi	aving tirst ma ed sealed a	de known to
the same as his/her vo					
				·	
			Notary Publi	С	

ASSIGNMENT

Serial No.

11/612,020

Filed

December 18, 2006

WHEREAS.

Alexander, Richard, residing at: 40 Bristol Lane Newark, De 19711;
Connors, Richard W., residing at 424 Belle Lane, Harleysville, PA 19438;
Cummings, Maxwell D., residing at 659 West Valley Road, Wayne, PA 19087;
Galemmo, Robert A, residing at 323 Paoli Woods, Paoli, PA 19301;
Hufnagel, Heather Rae, residing at 64 Glen Manor Lane, Glenmoore, PA 19343;
Johnson, Dana L., residing at 1343 Lonely Cottage Road, Upper Black Eddy, PA 18972;
Khalil, Ehab, residing at 148 Mountain View Drive, West Chester, PA 19380;
Leonard, Kristi A., residing at 36 W. Mill Road, Flourtown, PA 19031;
Lu, Tianbao, residing at 42 Livery Drive, Churchville, PA 18966;
Maroney, Anna C., residing at 696 Meadowbrook Lane, Media, PA 19063;
Sechler, Jan L., residing at 5678 S. Deer Run Road, Doylestown, PA 18901;
Travins, Jeremy M., residing at 380 Township Line Road, Downingtown, PA,19335;
Tuman, Robert W., residing at 103 Homestead Court, Chalfont, PA 18914;
Markotan, Thomas P., residing at 506 Estate Rd, Morgantown, PA

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

TRIAZOLOPYRIDAZINES AS KINASE MODULATORS

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

WHEREAS, Janssen Pharmaceutica, N.V., a company under the law 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 to them moving, 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;

DOCKET NO. PRD-2584USNP Joint Inventors Page 2 of 9

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.

, 2006.	N	TESTIMONY	WHEREOF,	Assignor	has	hereunto	set	his	hand	and	seal	this	day of
•		, 2006.		•									•

	Richard ALEXANDER
STATE OF)
COUNTY OF) ss.)

BE IT REMEMBERED, That on this day of , 200__, before me, a Notary Public, personally appeared Richard Alexander, 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

DOCKET NO. PRD-2584USNP Joint Inventors Page 3 of 9

IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this day of , 2006.
Richard W. Connors (L.S.)
STATE OF PA)
STATE OF PA)) ss. COUNTY OF Management) BE IT REMEMBERED. That on this 2 of day of Day 2006 before me a
BE IT REMEMBERED, That on this Z day of Dec., 200, before me, a Notary Public, personally appeared Richard W. Connors, 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.
NOTARIAL SEAL RELLIA LOUVE NOONY PLOIS LOWER BALFORD THE MONTGOMENT COUNTY By Commission Express Jan 27, 2010 Notary Public
IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this day of , 2006.
(L.S.) Maxwell D. Cummings
STATE OF)
) ss. COUNTY OF)
BE IT REMEMBERED, That on this day of , 200, before me, a Notary Public, personally appeared Maxwell D. Cummings, 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

DOCKET NO. PRD-2584USNP Joint Inventors Page 4 of 9

IN TESTIMONY WHE , 2006.	REOF, Assignor has	hereunto set his han	d and seal this	day of
	Galemmo, Robert A.	_ (L.S.)		
STATE OF)			
) ss. COUNTY OF)			
BE IT I Notary Public, persona and who executed the him/her the contents the the same as his/her volume.	e foregoing instrument nereof, he/she did ack	Galemmo, who I am s in my presence, and nowledge that he/she	I having first made I signed, sealed, and	named in known to
		Notary	Public	
IN TESTIMONY WHE , 2006.	REOF, Assignor has	hereunto set his han	d and seal this	day of
	Heather Rae Hufnage	_ (L.S.) el		
STATE OF)			
) ss. COUNTY OF)			
BE IT Notary Public, persona in and who executed thim/her the contents the same as his/her vo	he foregoing instrume hereof, he/she did acl	Rae Hufnagel, who Í ar nt in my presence, an knowledge that he/she	d I having first made is signed, sealed, and o	n named known to

DOCKET NO. PRD-2584USNP Joint Inventors Page 5 of 9

IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this day of , 200
(L.S.) Dana L. Johnson
STATE OF)
OUNTY OF)
BE IT REMEMBERED, That on this day of , 200, before me, a Notary Public, personally appeared Dana J. Johnson, 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
IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this day of , 200
(L.S.) Ehab Khalil
STATE OF)
COUNTY OF)
BE IT REMEMBERED, That on this day of , 200, before me, a Notary Public, personally appeared Ehab Khalil, 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

DOCKET NO. PRD-2584USNP Joint Inventors Page 6 of 9

IN TESTIMONY WH , 200	HEREOF, Assignor has	hereunto set his hand and seal this	day of
	Kristi A. Leonard	_ (L.S.)	
STATE OF)		
COUNTY OF)		
Notary Public, perso and who executed t him/her the contents	he foregoing instrument thereof, he/she did ack	on this day of , 200, befo Leonard, who I am satisfied is the person in in my presence, and I having first made knowledge that he/she signed, sealed, and or the uses and purposes therein expressed.	named in known to
		Notary Public	
IN TESTIMONY WH	HEREOF, Assignor has	hereunto set his hand and seal this	day of
	Tianbao Lu	_ (L.S.)	
STATE OF)		
) ss.)		
Notary Public, person who executed the for the contents thereof,	nally appeared Tianbao regoing instrument in my . he/she did acknowledge	on this day of , 200, before Lu, who I am satisfied is the person name of presence, and I having first made known to that he/she signed, sealed, and delivered and purposes therein expressed.	ed in and o him/her
		Notary Public	

DOCKET NO. PRD-2584USNP Joint Inventors Page 7 of 9

	IY WHE 00	REOF, Assignor has	hereunto set his hand and seal this day of
		Anna C. Maroney	_ (L.S.)
STATE OF) ss.)	
COUNTY OF	,)	
and who exec him/her the co	personauted the	e foregoing instrumen hereof, he/she did ac	t on this day of , 200, before me, a Maroney, who I am satisfied is the person named ir t in my presence, and I having first made known to knowledge that he/she signed, sealed, and delivered or the uses and purposes therein expressed.
			Notary Public
	IY WHE	REOF, Assignor has	hereunto set his hand and seal this day o
		Markey and the second s	_ (L.S.)
		Jan L. Sechler	
STATE OF) ss.)	
COUNTY OF	<i>)</i> 33.)	
who executed the contents the	persona the fore nereof, h	ally appeared Jan L. S egoing instrument in m e/she did acknowledç	t on this day of , 200, before me, a sechler, who I am satisfied is the person named in and by presence, and I having first made known to him/heige that he/she signed, sealed, and delivered the same and purposes therein expressed.
			Notary Public

DOCKET NO. PRD-2584USNP Joint Inventors Page 8 of 9

, 200	EREOF, Assignor has	hereunto set	his hand and	seal this	day of
	Jeremy M. Travins	_(L.S.)			
STATE OF) ss.)				
COUNTY OF)				
Notary Public, person and who executed the him/her the contents	REMEMBERED, That ally appeared Jeremy Male foregoing instrument thereof, he/she did ack oluntary act and deed for	M. Travins, whoin my preseknowledge that	o I am satisfied nce, and I havii it he/she signed	ng first made l I, sealed, and	named in known to
			Notary Public	***************************************	
IN TESTIMONY WH , 200	EREOF, Assignor has	hereunto set	his hand and	seal this	day of
	Robert W. Tuman	_ (L.S.)			
STATE OF)				
COUNTY OF)				
Notary Public, persor and who executed the him/her the contents	REMEMBERED, That nally appeared Robert Vone foregoing instrument thereof, he/she did act to and deed for any act and deed for the structure of	V. Tuman, wh t in my prese knowledge tha	o I am satisfied nce, and I havii at he/she signed	is the person ing first made land	known to
			Notary Public		

DOCKET NO. PRD-2584USNP Joint Inventors Page 9 of 9

IN TESTIMONY WHE , 200	REOF, Assignor h	as hereunto se	et his hand ar	nd seal this	day of
	Thomas P. Markot	(L.S.)			
	THOMAS I . MAINOL	ali			
STATE OF)				
) ss. COUNTY OF)				
BE IT Notary Public, persona in and who executed t him/her the contents t the same as his/her vo	the foregoing instru hereof, he/she did	as P. Markotan ment in my pre acknowledge tl	i, who I am sat esence, and I h hat he/she sigr	isfied is the p naving first m ned, sealed,	person named ade known to and delivered
			Notary Pub	lic	•••

ASSIGNMENT

Serial No.

11/612,020

Filed

December 18, 2006

WHEREAS.

Alexander, Richard, residing at: 40 Bristol Lane Newark, De 19711;
Connors, Richard W., residing at 424 Belle Lane, Harleysville, PA 19438;
Cummings, Maxwell D., residing at 659 West Valley Road, Wayne, PA 19087;
Galemmo, Robert A, residing at 323 Paoli Woods, Paoli, PA 19301;
Hufnagel, Heather Rae, residing at 64 Glen Manor Lane, Glenmoore, PA 19343;
Johnson, Dana L., residing at 1343 Lonely Cottage Road, Upper Black Eddy, PA 18972;
Khalil, Ehab, residing at 148 Mountain View Drive, West Chester, PA 19380;
Leonard, Kristi A., residing at 36 W. Mill Road, Flourtown, PA 19031;
Lu, Tianbao, residing at 42 Livery Drive, Churchville, PA 18966;
Maroney, Anna C., residing at 696 Meadowbrook Lane, Media, PA 19063;
Sechler, Jan L., residing at 5678 S. Deer Run Road, Doylestown, PA 18901;
Travins, Jeremy M., residing at 380 Township Line Road, Downingtown, PA,19335;
Tuman, Robert W., residing at 103 Homestead Court, Chalfont, PA 18914;
Markotan, Thomas P., residing at 506 Estate Rd, Morgantown, PA 19543;

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

TRIAZOLOPYRIDAZINES AS KINASE MODULATORS

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

WHEREAS, Janssen Pharmaceutica, N.V., a company under the law 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 to them moving, 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 filling 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:

DOCKET NO. PRD-2584USNP Joint Inventors Page 2 of 9

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, Assignor has hereunto set his hand and seal this day of , 2006.

	Richard ALEXANDER
STATE OF)
COUNTY OF) SS.)

BE IT REMEMBERED, That on this day of , 200__, before me, a Notary Public, personally appeared Richard Alexander, 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

DOCKET NO. PRD-2584USNP Joint Inventors Page 3 of 9

IN TESTIMONY WHE , 2006.	REOF, Assignor has	hereunto set his	hand and seal this	day of
	Richard W. Connors	_ (L.S.)		
STATE OF) ss. COUNTY OF)			
	e foregoing instrumen hereof, he/she did acl	W. Connors, who I t in my presence, knowledge that he	and I having first maken signed, sealed,	rson named in ade known to and delivered
			otary Public	_
IN TESTIMONY WHE , 2006.	REOF, Assignor has	hereunto set his	hand and seal this	day of
STATE OF) ss. COUNTY OF	Maxwell D. Cumming)	_ (L.S.) gs		
BE IT Notary Public, persona in and who executed thim/her the contents the the same as his/her vo	the foregoing instrume hereof, he/she did ac	D. Cummings, who ent in my presence knowledge that he	o I am satisfied is the p , and I having first m /she signed, sealed,	ade known to and delivered
	·	No	otary Public	_

IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this 22 day of DECEMBER 2006. STATE OF BE IT REMEMBERED, That on this 33 day of 13, 2006, before me, a Notary Public, personally appeared Robert A. Galemmo, 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. Notarial Seai Linda M. Lieberman, Notary Public Easttown Twp., Chester County My Commission Expires July 10, 2009 IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this day of , 2006. Heather Rae Hufnagel (L.S.) STATE OF) ss. **COUNTY OF** BE IT REMEMBERED, That on this day of , 200__, before me, a

Notary Public, personally appeared Heather Rae Hufnagel, 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.

DOCKET NO. PRD-2584USNP Joint Inventors Page 5 of 9

IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this day o , 200
Dana L. Johnson
STATE OF)
COUNTY OF)
BE IT REMEMBERED, That on this day of , 200, before me, a Notary Public, personally appeared Dana J. Johnson, 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
IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this day of , 200
Ehab Khalil
STATE OF)
) ss. COUNTY OF)
BE IT REMEMBERED, That on this day of , 200, before me, a Notary Public, personally appeared Ehab Khalil, 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

DOCKET NO. PRD-2584USNP Joint Inventors Page 6 of 9

(L.S.) Kristi A. Leonard	
MistrA. Econard	
STATE OF)	
COUNTY OF)	
BE IT REMEMBERED, That on this day of , 200, before me, a Notary Public, personally appeared Kristi A. Leonard, 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.	in to
Notary Public	
IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this day of a contract of the contract of th	of
Tianbao Lu	
STATE OF)	
COUNTY OF)	
BE IT REMEMBERED, That on this day of , 200, before me, a Notary Public, personally appeared Tianbao Lu, 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/he 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.	d er
Notary Public	

DOCKET NO. PRD-2584USNP Joint Inventors Page 7 of 9

IN TESTIMON, 2	IY WHERE 00	OF, Assignor has	hereunto set h	is hand and s	eal this	day of
	Ār	na C. Maroney	_ (L.S.)			
STATE OF)				
COUNTY OF) ss.)				
and who exec him/her the co	personally uted the fo ntents ther	MEMBERED, That appeared Anna Coregoing instrument eof, he/she did act and deed for the stary act	Maroney, who I t in my presence knowledge that I	am satisfied is e, and I having ne/she signed,	g first made kr sealed, and de	amed in nown to
			ı	Notary Public		
IN TESTIMON	IY WHERE 00	OF, Assignor has	hereunto set hi	is hand and s	eal this	day of
	Ja	n L. Sechler	_ (L.S.)			
STATE OF)				
COUNTY OF .) ss.)				
who executed the contents the	personally the foregoi nereof, he/s	MEMBERED, That appeared Jan L. S ng instrument in m he did acknowledg nd deed for the use:	echler, who I am y presence, and e that he/she sig	satisfied is the I having first m ned, sealed, a	person named ade known to l nd delivered the	l in and him/her
				Notary Public	***************************************	

DOCKET NO. PRD-2584USNP Joint Inventors Page 8 of 9

	NY WHE 200	EREOF, Assignor has hereunto set his hand and seal this	s day of
	·	Jeremy M. Travins	
STATE OF)	
COUNTY OF) ss.)	
and who exect him/her the co	persona cuted the ontents t	REMEMBERED, That on this day of , 200_ally appeared Jeremy M. Travins, who I am satisfied is the pe foregoing instrument in my presence, and I having first thereof, he/she did acknowledge that he/she signed, sealed bluntary act and deed for the uses and purposes therein expressions.	erson named in made known to delivered
		Notary Public	STT TTTT SMOOTH
	NY WHE 200	EREOF, Assignor has hereunto set his hand and seal this	day of
		(L.S.) Robert W. Tuman	
STATE OF)	
COUNTY OF) ss.)	
and who execution him/her the co	, persona cuted the ontents t	REMEMBERED, That on this day of , 200 ally appeared Robert W. Tuman, who I am satisfied is the perent of the perent of the perent of the perent of the second of the secon	erson named in made known to l, and delivered
		Notany Public	

DOCKET NO. PRD-2584USNP Joint Inventors Page 9 of 9

IN TESTIMONY WH	IEREOF, Assignor has hereu	into set his hand a	and seal this	day of
, 200				
•				
	(L.S	.)		
	Thomas P. Markotan	•,		
OT	<u>.</u>			
STATE OF)			
) ss. COUNTY OF	1			
000111101	,			
BE IT	REMEMBERED, That on the	nis day of	, 200, bef	ore me, a
Notary Public, persor	nally appeared Thomas P. Ma	rkotan, who I am sa	atisfied is the pers	on named
in and who executed	the foregoing instrument in r	ny presence, and I	having first made	known to
nimi/her the contents	thereof, he/she did acknowled	dge that he/she sig	gned, sealed, and	delivered
the same as ms/ner v	roluntary act and deed for the i	uses and purposes t	.nerein expressea.	
		Notary Pu	hlic	

ASSIGNMENT

Serial No.

11/612,020

Filed

December 18, 2006

WHEREAS,

Alexander, Richard, residing at: 40 Bristol Lane Newark, De 19711;
Connors, Richard W., residing at 424 Belle Lane, Harleysville, PA 19438;
Cummings, Maxwell D., residing at 659 West Valley Road, Wayne, PA 19087;
Galemmo, Robert A, residing at 323 Paoli Woods, Paoli, PA 19301;
Hufnagel, Heather Rae, residing at 64 Glen Manor Lane, Glenmoore, PA 19343;
Johnson, Dana L., residing at 1343 Lonely Cottage Road, Upper Black Eddy, PA 18972;
Khalil, Ehab, residing at 148 Mountain View Drive, West Chester, PA 19380;
Leonard, Kristi A., residing at 36 W. Mill Road, Flourtown, PA 19031;
Lu, Tianbao, residing at 42 Livery Drive, Churchville, PA 18966;
Maroney, Anna C., residing at 696 Meadowbrook Lane, Media, PA 19063;
Sechler, Jan L., residing at 5678 S. Deer Run Road, Doylestown, PA 18901;
Travins, Jeremy M., residing at 380 Township Line Road, Downingtown, PA,19335;
Tuman, Robert W., residing at 103 Homestead Court, Chalfont, PA 18914;
Markotan, Thomas P., residing at 506 Estate Rd, Morgantown, PA

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

TRIAZOLOPYRIDAZINES AS KINASE MODULATORS

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

WHEREAS, Janssen Pharmaceutica, N.V., a company under the law 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 to them moving, 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:

DOCKET NO. PRD-2584USNP Joint Inventors Page 2 of 9

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,	Assignor	has	hereunto	set	his	hand	and	seal	this	
	, 2006.		Ü						u., u	vvu.		

day of

	Richard ALEXANDER		
STATE OF)		
COUNTY OF) ss.)		

BE IT REMEMBERED, That on this day of , 200_, before me, a Notary Public, personally appeared Richard Alexander, 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

DOCKET NO. PRD-2584USNP Joint Inventors Page 3 of 9

day of

IN TESTIMONY WHEF , 2006.	REOF, Assignor I	nas hereunto s	et his hand and seal this	day of
	Richard W. Conne	(L.S.) ors		
STATE OF) ss.)			
COUNTY OF)			
Notary Public, personall and who executed the him/her the contents th	foregoing instrum ereof, he/she did	rd W. Connors, nent in my pre acknowledge t	day of , 200, b who I am satisfied is the pers sence, and I having first mad hat he/she signed, sealed, a and purposes therein expresse	de known to nd delivered
			Notary Public	
IN TESTIMONY WHEF , 2006.	REOF, Assignor I	nas hereunto s	et his hand and seal this	day of
STATE OF) ss. COUNTY OF	Maxwell D. Cumn)	(L.S.) nings		
Notary Public, personall in and who executed the him/her the contents the	ie foregoing instru ereof, he/she did	ell D. Cumming Iment in my pro acknowledge t	day of , 200, be s, who I am satisfied is the pe esence, and I having first mad hat he/she signed, sealed, ar and purposes therein expresse	de known to
		***************************************	Notary Public	

DOCKET NO. PRD-2584USNP Joint Inventors Page 4 of 9

day of

	•	Galemmo, Rober	(L.S.)			
STATE OF	\)				
COUNTY OF) SS.)				
and who exect him/her the co	personally cuted the ontents the	foregoing instrun ereof, he/she did	rt A. Galemmo nent in my pro acknowledge	esence, and I h that he/she sig	, 200, before sfied is the person the person the person that is the person to the person that is the person t	n named in known to I delivered
				Notary Pul	blic	
IN TESTIMON	NY WHEF 2006.	EOF, Assignor I	nas hereunto	set his hand a	ind seal this	day of
		Heather Rae Hufi	(L.S.)			
STATE OF	\)				
COUNTY OF) SS.)				
in and who ex him/her the co	personally secuted the entents the	e foregoing instru ereof, he/she did	ner Rae Hufnag ument in my pi acknowledge	resence, and I I that he/she sig	, 200, before tisfied is the personatisfied is the personation first made gned, sealed, and herein expressed.	on named known to delivered

IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this

, 2006.

DOCKET NO. PRD-2584USNP Joint Inventors Page 5 of 9

IN TESTIMONY WH , 200	EREOF, Assignor has hereunto set his hand and seal this day of
	(L.S.) Dana L. Johnson
STATE OF)
COUNTY OF)
Notary Public, person and who executed thim/her the contents	REMEMBERED, That on this day of , 200, before me, a nally appeared Dana J. Johnson, who I am satisfied is the person named in the foregoing instrument in my presence, and I having first made known to thereof, he/she did acknowledge that he/she signed, sealed, and delivered oluntary act and deed for the uses and purposes therein expressed.
	Notary Public
IN TESTIMONY WH	EREOF, Assignor has hereunto set his hand and seal this day of
	(L.S.) Ehab Khalil
STATE OF)
) ss. COUNTY OF)
Notary Public, person who executed the for the contents thereof,	REMEMBERED, That on this day of , 200, before me, a nally appeared Ehab Khalil, who I am satisfied is the person named in and egoing instrument in my presence, and I having first made known to him/her he/she did acknowledge that he/she signed, sealed, and delivered the same ct and deed for the uses and purposes therein expressed.
	Notary Public

DOCKET NO. PRD-2584USNP Joint Inventors Page 6 of 9

, 200	EHEUF, Assignor nas	s nereunto se	t his hand ar	nd seal this	day of
	Kristi A. Leonard	(L.S.)	·		
STATE OF) ss. COUNTY OF)				
Notary Public, persor and who executed the him/her the contents	REMEMBERED, That nally appeared Kristi Annel of the foregoing instrument thereof, he/she did accordinately act and deed	Leonard, what in my present oknowledge the	ence, and I ha at he/she sign	ed is the perso aving first mad ned, sealed, an	n named in e known to id delivered
			Notary Pub	lic	
IN TESTIMONY WH , 200	IEREOF, Assignor ha	s hereunto se	t his hand ar	nd seal this	day of
	Tianbao Lu	(L.S.)			
STATE OF) ss. COUNTY OF)				
Notary Public, person who executed the for the contents thereof,	REMEMBERED, The nally appeared Tianba regoing instrument in nate he/she did acknowled act and deed for the use	o Lu, who I a ny presence, a ge that he/she	ınd I having fir signed, seale	rst made knowr d, and delivere	med in and to him/her
			Notary Pub	lic	

DOCKET NO. PRD-2584USNP Joint Inventors Page 7 of 9

IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this 2^{10} day of 3^{10} , 3^{10} .
Anna C. Marongy
STATE OF PA)
) ss. COUNTY OF MONTSOMERY)
BE IT REMEMBERED, That on this day of day of 2007, before me, a Notary Public, personally appeared Anna C. Maroney, 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. Notarial Seal Debra L. Moore, Notary Public Collegeville Boro, Montgomery County My Commission Expires Feb. 17, 2007 Notary Public Notary Public
IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this day of , 200
Jan L. Sechler
STATE OF)
) ss. COUNTY OF)
BE IT REMEMBERED, That on this day of , 200_, before me, a Notary Public, personally appeared Jan L. Sechler, 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

, 200	EREOF, Assignor has	s hereunto set his hand and seal	this day of
	Jeremy M. Travins	(L.S.)	
STATE OF)		
) ss. COUNTY OF)		
Notary Public, persona and who executed the him/her the contents t	e foregoing instrumer thereof, he/she did ac	t on this day of , 20 M. Travins, who I am satisfied is that in my presence, and I having fire knowledge that he/she signed, sea or the uses and purposes therein expenses.	e person named in rst made known to aled, and delivered
		Notary Public	
IN TESTIMONY WHE , 200	EREOF, Assignor has	s hereunto set his hand and seal	this day of
	Robert W. Tuman	(L.S.)	
STATE OF)		
) ss. COUNTY OF)		
Notary Public, personand who executed the him/her the contents to	e foregoing instrumer thereof, he/she did ac	at on this day of , 2000. W. Tuman, who I am satisfied is the in my presence, and I having fire sknowledge that he/she signed, sea for the uses and purposes therein expenses.	st made known to aled, and delivered
		Notary Public	THE STATE AND ASSESSED.

DOCKET NO. PRD-2584USNP Joint Inventors Page 9 of 9

IN TESTIMONY WHER	EOF, Assignor has h	ereunto set	his hand ar	nd seal this	day of
, 200					
_		(L.S.)			
Ī	homas P. Markotan	. ,			
STATE OF)				
) ss.					
COUNTY OF)				
BE IT R	EMEMBERED, That o	on this	day of	, 200, l	pefore me, a
Notary Public, personally	appeared Thomas P.	. Markotan, v	who I am sat	tisfied is the p	erson named
in and who executed the					
him/her the contents the the same as his/her volu					
and dame ad morner void	mary dot and dood for	ano doos and	, barboses a	iciciii capicoo	cu.
			Noton, Dub	Jia	м.
			Notary Pub	ль	

ASSIGNMENT

Serial No.

11/612.020

Filed

December 18, 2006

WHEREAS,

Alexander, Richard, residing at: 40 Bristol Lane Newark, De 19711;
Connors, Richard W., residing at 424 Belle Lane, Harleysville, PA 19438;
Cummings, Maxwell D., residing at 659 West Valley Road, Wayne, PA 19087;
Galemmo, Robert A, residing at 323 Paoli Woods, Paoli, PA 19301;
Hufnagel, Heather Rae, residing at 64 Glen Manor Lane, Glenmoore, PA 19343;
Johnson, Dana L., residing at 1343 Lonely Cottage Road, Upper Black Eddy, PA 18972;
Khalil, Ehab, residing at 148 Mountain View Drive, West Chester, PA 19380;
Leonard, Kristi A., residing at 36 W. Mill Road, Flourtown, PA 19031;
Lu, Tianbao, residing at 42 Livery Drive, Churchville, PA 18966;
Maroney, Anna C., residing at 696 Meadowbrook Lane, Media, PA 19063;
Sechler, Jan L., residing at 5678 S. Deer Run Road, Doylestown, PA 18901;
Travins, Jeremy M., residing at 380 Township Line Road, Downingtown, PA,19335;
Tuman, Robert W., residing at 103 Homestead Court, Chalfont, PA 18914;
Markotan, Thomas P., residing at 506 Estate Rd, Morgantown, PA 19543;

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

TRIAZOLOPYRIDAZINES AS KINASE MODULATORS

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

WHEREAS, Janssen Pharmaceutica, N.V., a company under the law 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 to them moving, 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;

DOCKET NO. PRD-2584USNP Joint Inventors Page 2 of 9

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, , 2006.	Assignor has hereunto set his hand and seal this	day of
	(L.S.) Richard ALEXANDER	
STATE OF		
COUNTY OF) ss.)	
Notary Public, personally appliand who executed the foregonim/her the contents thereof,	MBERED, That on this day of , 200, before eared Richard Alexander, who I am satisfied is the person narbing instrument in my presence, and I having first made knowledse that he/she signed, sealed, and delact and deed for the uses and purposes therein expressed.	med in own to

Notary Public

DOCKET NO. PRD-2584USNP Joint Inventors Page 3 of 9

IN TESTIMONY WHEREO, 2006.	F, Assignor has	hereunto set h	is hand and se	al this d	lay of
Ric	nard W. Connors	_ (L.S.)			
STATE OF) ss. COUNTY OF)				
BE IT REM Notary Public, personally ap and who executed the fore him/her the contents thereof the same as his/her volunta	going instrument of, he/she did ack	 Connors, who in my presence nowledge that 	I am satisfied is e, and I having he/she signed,	first made know sealed, and deliv	ned in wn to
		A	Notary Public		
IN TESTIMONY WHEREC , 2006.	F, Assignor has	hereunto set h	is hand and se	al this d	ay of
STATE OF) ss. COUNTY OF	well D. Cumming)	_ (L.S.) s			
BE IT REM Notary Public, personally ap in and who executed the for him/her the contents thereof the same as his/her volunta	regoing instrumer of, he/she did ack	D. Cummings, wont in my present in my present in my present in my break in a contract in the c	ho I am satisfied ce, and I having he/she signed, s	g first made know sealed, and deliv	amed wn to
			Notary Public	-	

DOCKET NO. PRD-2584USNP Joint Inventors Page 4 of 9

IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this day of , 2006.
Galemmo, Robert A.
STATE OF)
) ss. COUNTY OF)
BE IT REMEMBERED, That on this day of , 200, before me, a Notary Public, personally appeared Robert A. Galemmo, 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
IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this day of , 2006.
——————————————————————————————————————
STATE OF)
) ss. COUNTY OF)
BE IT REMEMBERED, That on this day of , 200, before me, a Notary Public, personally appeared Heather Rae Hufnagel, 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.

DOCKET NO. PRD-2584USNP Joint Inventors Page 5 of 9

IN TESTIMONY V , 200_	VHEREOF, Assignor ha 	s hereunto set his hand and seal this	day of
	Dana L. Johnson	(L.S.)	
STATE OF)		
COUNTY OF))		
Notary Public, pers and who executed him/her the conter	I the foregoing instruments thereof, he/she did a	at on this day of , 200, ld. Johnson, who I am satisfied is the person in my presence, and I having first match the signed, sealed, a for the uses and purposes therein express	son named in ade known to and delivered
		Notary Public	-
IN TESTIMONY V , 200_		s hereunto set his hand and seal this	day of
	Ehab Khalil	(L.S.)	
STATE OF)		
) ss COUNTY OF	.)		
Notary Public, pers who executed the the contents thereo	foregoing instrument in n of, he/she did acknowled	at on this day of , 200, lat on this day of , 200, late the person not be personed at the personed that he/she signed, sealed, and delive as and purposes therein expressed.	wn to him/her
		Notary Public	-

DOCKET NO. PRD-2584USNP Joint Inventors Page 6 of 9

IN TESTIMONY , 200	WHEREOF, Assignor has hereunto set his hand and seal this day of
	(L.S.) Kristi A. Leonard
STATE OF)
COUNTY OF	SS.)
Notary Public, pe and who execute him/her the contri	E IT REMEMBERED, That on this day of , 200, before me, a ersonally appeared Kristi A. Leonard, who I am satisfied is the person named in ed the foregoing instrument in my presence, and I having first made known to ents thereof, he/she did acknowledge that he/she signed, sealed, and delivered her voluntary act and deed for the uses and purposes therein expressed.
	Notary Public
IN TESTIMONY , 200	WHEREOF, Assignor has hereunto set his hand and seal this day of
	(L.S.) Tianbao Lu
STATE OF)
COUNTY OF	ss.)
who executed the the contents there	E IT REMEMBERED, That on this day of , 200, before me, a ersonally appeared Tianbao Lu, who I am satisfied is the person named in and e foregoing instrument in my presence, and I having first made known to him/her eof, he/she did acknowledge that he/she signed, sealed, and delivered the same try act and deed for the uses and purposes therein expressed.
	Notary Public

DOCKET NO. PRD-2584USNP Joint Inventors Page 7 of 9

IN TESTIMON , 2	IY WHEF 00	REOF, Assignor I	nas hereunto	set his hand a	ınd seal this	day of
	į	Anna C. Maroney	(L.S.)			
STATE OF)				
COUNTY OF) ss.)				
Notary Public, and who exec him/her the co	personall uted the intents the	EMEMBERED, Ty appeared Anna foregoing instrumereof, he/she didentary act and dee	C. Maroney, ent in my pro acknowledge	esence, and I h that he/she sic	fied is the personaving first mad ned, sealed, a	de known to nd delivered
				Notary Pul	blic	
IN TESTIMON , 2	IY WHEF 00	REOF, Assignor I	nas hereunto	set his hand a	nd seal this	day of
		lan L. Sechler	(L.S.)			
STATE OF)				
COUNTY OF) ss.)				
the contents th	personall the foreg- ereof, he	EMEMBERED, T y appeared Jan L oing instrument in /she did acknowle and deed for the u	. Sechler, who my presence edge that he/s	I am satisfied , and I having f he signed, seal	is the person na irst made know ed, and delivere	amed in and not
			***************************************	Notary Pul		

DOCKET NO. PRD-2584USNP Joint Inventors Page 8 of 9

day of

, 200	
	(L.S.) Jeremy M. Travins
STATE OF)
) ss. COUNTY OF)
Notary Public, persona and who executed the him/her the contents the	REMEMBERED, That on this day of , 200, before me, a lly appeared Jeremy M. Travins, who I am satisfied is the person named in foregoing instrument in my presence, and I having first made known to nereof, he/she did acknowledge that he/she signed, sealed, and delivered untary act and deed for the uses and purposes therein expressed.
	Notary Public
hec , 200 <u>6</u> .	REOF, Assignor has hereunto set his hand and seal this 2/st day of Land W. Tumm (C.S.) Robert W. Tuman
STATE OF PA)
) ss.	۶)
Notary Public, persona and who executed the him/her the contents the	REMEMBERED, That on this 215th day of DEC, 2006, before me, a fly appeared Robert W. Tuman, who I am satisfied is the person named in a foregoing instrument in my presence, and I having first made known to nereof, he/she did acknowledge that he/she signed, sealed, and delivered funtary act and deed for the uses and purposes therein expressed.

IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this

COMMONWEALTH OF PENNSYLVANIA Notarial Seal

Phillip M. Silmser, Notary Public New Britian Twp., Bucks County My Commission Expires Aug. 9, 2008

Member, Pennsylvania Association Of Notaries

DOCKET NO. PRD-2584USNP Joint Inventors Page 9 of 9

IN TESTIMONY WHE	EREOF, Assignor ha	as hereunto se	t his hand ar	nd seal this	day of
, 200					
		(L.S.)			
	Thomas P. Markota	n			
STATE OF)				
) ss.	,				
COUNTY OF)				
BE IT	REMEMBERED, Th	at on this	day of	200 be	efore ma a
Notary Public, persona	ally appeared Thoma	s P. Markotan,	who I am sat	isfied is the pe	rson named
in and who executed t	the foregoing instrun	nent in my pres	sence, and I h	naving first mad	de known to
him/her the contents t	thereof, he/she did a	icknowledge th	at he/she sigr	ned, sealed, ar	nd delivered
the same as his/her vo	oluntary act and deed	for the uses ar	nd purposes th	ierein expresse	d.
		-	Notary Pub	lic	

ASSIGNMENT

Serial No.

11/612,020

Filed

December 18, 2006

WHEREAS,

Alexander, Richard, residing at: 40 Bristol Lane Newark, De 19711;
Connors, Richard W., residing at 424 Belle Lane, Harleysville, PA 19438;
Cummings, Maxwell D., residing at 659 West Valley Road, Wayne, PA 19087;
Galemmo, Robert A, residing at 323 Paoli Woods, Paoli, PA 19301;
Hufnagel, Heather Rae, residing at 64 Glen Manor Lane, Glenmoore, PA 19343;
Johnson, Dana L., residing at 1343 Lonely Cottage Road, Upper Black Eddy, PA 18972;
Khalil, Ehab, residing at 148 Mountain View Drive, West Chester, PA 19380;
Leonard, Kristi A., residing at 36 W. Mill Road, Flourtown, PA 19031;
Lu, Tianbao, residing at 42 Livery Drive, Churchville, PA 18966;
Maroney, Anna C., residing at 696 Meadowbrook Lane, Media, PA 19063;
Sechler, Jan L., residing at 5678 S. Deer Run Road, Doylestown, PA 18904;
Travins, Jeremy M., residing at 380 Township Line Road, Downingtown, PA, 19335;
Tuman, Robert W., residing at 103 Homestead Court, Chalfont, PA 18914;
Markotan, Thomas P., residing at 506 Estate Rd, Morgantown, PA 19543;

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

TRIAZOLOPYRIDAZINES AS KINASE MODULATORS

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

WHEREAS, Janssen Pharmaceutica, N.V., a company under the law 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 to them moving, 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 filling 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:

DOCKET NO. PRD-2584USNP Joint Inventors Page 2 of 9

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 , 2006.	, Assignor has hereunto set his hand and seal this	day of
	Richard ALEXANDER	
STATE OF		
COUNTY OF) ss.)	
Notary Public, personally app and who executed the foreg him/her the contents thereof	MBERED, That on this day of , 200, before beared Richard Alexander, who I am satisfied is the person nar joing instrument in my presence, and I having first made known he/she did acknowledge that he/she signed, sealed, and deviact and deed for the uses and purposes therein expressed.	med in own to
	Notary Public	

DOCKET NO. PRD-2584USNP Joint Inventors Page 3 of 9

day of

IN TESTIMONY WHE , 2006.	REOF, Assignor has	s hereunto set	his hand and seal t	his day of
	Richard W. Connors	(L.S.)		
STATE OF) ss. COUNTY OF)			
BE IT Notary Public, persona and who executed the him/her the contents t the same as his/her vo	e foregoing instrumen hereof, he/she did ac	W. Connors, what in my presen- knowledge that	o I am satisfied is the ce, and I having firs he/she signed, seal	t made known to ed, and delivered
		****	Notary Public	Additional Confession of the C
IN TESTIMONY WHE , 2006.	REOF, Assignor has	hereunto set l	nis hand and seal th	his day of
STATE OF) ss. COUNTY OF	Maxwell D. Cummin	(L.S.) gs		
BE IT I Notary Public, persona in and who executed t him/her the contents the the same as his/her vo	he foregoing instrume hereof, he/she did ac	D. Cummings, vent in my present in my present in the contract of the contract	who I am satisfied is t nce, and I having firs he/she signed, seale	st made known to ed, and delivered
			Notary Public	Mark Annual Control of the Control o

DOCKET NO. PRD-2584USNP Joint Inventors Page 4 of 9

IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this day of , 2006.
Galemmo, Robert A.
STATE OF)
COUNTY OF)
BE IT REMEMBERED, That on this day of , 200_, before me, a Notary Public, personally appeared Robert A. Galemmo, 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
IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this day of , 2006.
Heather Rae Hufnagel
STATE OF)
COUNTY OF)
BE IT REMEMBERED, That on this day of , 200, before me, a Notary Public, personally appeared Heather Rae Hufnagel, 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.

DOCKET NO. PRD-2584USNP Joint Inventors Page 5 of 9

IN TESTIMONY WHE , 200	EREOF, Assignor ha	as hereunto s	et his hand and	seal this	day of
	Dana L. Johnson	(L.S.)			
STATE OF) ss.)				
COUNTY OF)				
BE IT Notary Public, persona and who executed the him/her the contents t the same as his/her vo	e foregoing instrume hereof, he/she did a	J. Johnson, w ent in my pres acknowledge t	sence, and I havi hat he/she signed	ng first made d, sealed, and	n named in e known to d delivered
			Notary Public		
IN TESTIMONY WHE , 200	EREOF, Assignor ha	as hereunto s	et his hand and	seal this	day of
	Ehab Khalil	(L.S.)			
STATE OF)				
) ss. COUNTY OF)				
BE IT Notary Public, persona who executed the fore the contents thereof, h as his/her voluntary ac	going instrument in e/she did acknowled	Khalil, who I my presence, dge that he/sh	am satisfied is the and I having first e signed, sealed,	e person nar made known and delivered	ned in and to him/her
			Notary Public		

DOCKET NO. PRD-2584USNP Joint Inventors Page 6 of 9

IN TESTIMON	NY WHERE(200 <u> </u>	DF, Assignor h	as hereunto	set his han	d and sea	l this	day of
	Kris	ti A. Leonard	(L.S.)				
STATE OF)					
COUNTY OF) SS.)					
and who exect him/her the co	personally a cuted the for ontents there	IEMBERED, The peared Kristing instrument of, he/she did any act and deed	A. Leonard, ent in my pro acknowledge	who I am sa esence, and that he/she	itisfied is the I having fi signed, se	first made kr ealed, and d	amed in nown to
			<u></u>	Notary	Public	MANAA-garaya ya waxaa aa	
IN TESTIMON	NY WHEREC	DF, Assignor h	as hereunto	set his hand	d and seal	l this	day of
	Tiar	nbao Lu	(L.S.)				
STATE OF)					
COUNTY OF) SS.)					
who executed the contents the	personally a the foregoin nereof, he/sh	EMBERED, The peared Tianberg instrument in edid acknowled deed for the use	ao Lu, who l my presence dge that he/s	l am satisfie , and I havir he signed, s	d is the pe ng first mad ealed, and	erson named de known to delivered th	l in and him/her
				Notary	Public		

DOCKET NO. PRD-2584USNP Joint Inventors Page 7 of 9

	NY WHERE 200	OF, Assignor f	nas hereunto se	t his hand and seal this	day of
	An	na C. Maroney	(L.S.)		
STATE OF COUNTY OF) ss.)			
and who exect him/her the co	personally a cuted the fo ontents there	regoing instrun oof, he/she did	a C. Maroney, whent in my prese acknowledge the	day of , 200, b no I am satisfied is the pers ence, and I having first ma at he/she signed, sealed, a nd purposes therein express	on named in de known to and delivered
				Notary Public	
	NY WHERE 200	OF, Assignor I	has hereunto se	t his hand and seal this	day of
	Jai	n L. Sechler	<u>(L.S.)</u>		
STATE OF)			
COUNTY OF) SS.)			
who executed the contents the	personally the foregoin hereof, he/s	ng instrument in he did acknowl	Secnier, who i n my presence, a edge that he/she	day of A, 2007, be am satisfied is the person not and I having first made known signed, sealed, and deliver es therein expressed. Notary Public COMMONWEALTH OF PENNS Notarial Seal Joanne M. Pinto, Notary Pul Lower Makefield Twp., Bucks Of My Commission Expires Jan. 24	YLVANIA

PATENT REEL: 019293 FRAME: 0955

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, 200 day of
Jeremy M. Travins
STATE OF)
) ss. COUNTY OF)
BE IT REMEMBERED, That on this day of , 200_, before me, a Notary Public, personally appeared Jeremy M. Travins, 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
IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this day of , 200
(L.S.) Robert W. Tuman
STATE OF)
) ss. COUNTY OF)
BE IT REMEMBERED, That on this day of , 200_, before me, a Notary Public, personally appeared Robert W. Tuman, 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 TESTIMON	Y WHEREOF, Assi	gnor has hereunto	set his hand a	nd seal this	day of
, 20	00				-
		(L.S.)			
	Thomas P.				
STATE OF)				
) ss.				
COUNTY OF)				
	BE IT REMEMBEF	PD That on this	day of	200 he	afore me a
	personally appeared				
	ecuted the foregoing				
	ntents thereof, he/sl				
the same as his	s/her voluntary act a	nd deed for the uses	s and purposes t	herein expresse	d.
			Notary Pul	olic	

ASSIGNMENT

Serial No.

11/612,020

Filed

December 18, 2006

WHEREAS.

Alexander, Richard, residing at: 40 Bristol Lane Newark, De 19711;
Connors, Richard W., residing at 424 Belle Lane, Harleysville, PA 19438;
Cummings, Maxwell D., residing at 659 West Valley Road, Wayne, PA 19087;
Galemmo, Robert A, residing at 323 Paoli Woods, Paoli, PA 19301;
Hufnagel, Heather Rae, residing at 64 Glen Manor Lane, Glenmoore, PA 19343;
Johnson, Dana L., residing at 1343 Lonely Cottage Road, Upper Black Eddy, PA 18972;
Khalil, Ehab, residing at 148 Mountain View Drive, West Chester, PA 19380;
Leonard, Kristi A., residing at 36 W. Mill Road, Flourtown, PA 19031;
Lu, Tianbao, residing at 42 Livery Drive, Churchville, PA 18966;
Maroney, Anna C., residing at 696 Meadowbrook Lane, Media, PA 19063;
Sechler, Jan L., residing at 5678 S. Deer Run Road, Doylestown, PA 18901;
Travins, Jeremy M., residing at 380 Township Line Road, Downingtown, PA,19335;
Tuman, Robert W., residing at 103 Homestead Court, Chalfont, PA 18914;
Markotan, Thomas P., residing at 506 Estate Rd, Morgantown, PA 19543;

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

TRIAZOLOPYRIDAZINES AS KINASE MODULATORS

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

WHEREAS, Janssen Pharmaceutica, N.V., a company under the law 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 to them moving, 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;

DOCKET NO. PRD-2584USNP Joint Inventors Page 2 of 15

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, Assignor has hereunto set his hand and seal this day of , 200 7. Jan

Maldlahmy (L.S.)
Richard ALEXANDER

STATE OF Rensylvania) ss. COUNTY OF Mantigenery)

BE IT REMEMBERED, That on this day of Jan, 2001, before me, a Notary Public, personally appeared Richard Alexander, 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.

Muladone J. Coonly

COMMONWEALTH OF PENNSYLVANIA

Notarial Seal

Geraldine F. Cooney, Notary Public Uwchlan Twp., Chester County My Commission Expires June 7, 2008

Member, Pennsylvania Association Of Notaries

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, 200	:REOF, Assignor	has hereunto s	et his hand ar	nd seal this	day of
	Richard W. Conr	(L.S.)			
STATE OF)				
) ss. COUNTY OF)				
BE IT	REMEMBERED,	That on this	day of	, 200, be	fore me, a
Notary Public, persona	ally appeared Richa	ard W. Connors,	who I am satis	fied is the perso	n named in
and who executed th	e foregoing instrur	ment in my pres	sence, and I h	aving first made	e known to
him/her the contents	thereof, he/she did	l acknowledge t	hat he/she sig	ned, sealed, an	d delivered
the same as his/her vo	oluntary act and de	ed for the uses a	and purposes th	nerein expressed	t.
		***************************************	Notary Pub	olic	

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IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this 9th day of January , 2007.

Maxwell D. Cummings

STATE OF Pennsylvania)

() ss.

COUNTY OF Montiphinery)

BE IT REMEMBERED, That on this day of Jon, 200, before me, a Notary Public, personally appeared Maxwell D. Cummings, 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

COMMONWEALTH OF PENNSYLVANIA

Notarial Seal Geraldine F. Cooney, Notary Public Uwchlan Twp., Chester County My Commission Expires June 7, 2008

Member, Pennsylvania Association Of Notaries

DOCKET NO. PRD-2584USNP Joint Inventors Page 5 of 15

	NY WHEREOF, 2006.	Assignor ha	s hereunto	set hi	s hand	and se	al this	day o
	Galem	ımo, Robert A	(L.S.) \.					
STATE OF))						
COUNTY OF) ss.)						
and who exec	BE IT REMENthe personally appearance the foregon tents thereof, is/her voluntary and the second tents are second to the second tents.	eared Robert sing instrume he/she did a	A. Galemm nt in my pi cknowledge	o, who resence that h	e, and I ne/she si	isfied is having igned, s	s the pe first m sealed,	ade known to and delivered
				1	Notary P	ublic		

DOCKET NO. PRD-2584USNP Joint Inventors Page 6 of 15

IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this day of January, 2007.

STATE OF PENNSYlvania)

BE IT REMEMBERED, That on this day of Jun, 200 1, before me, a

Notary Public, personally appeared Heather Rae Hufnagel, 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.

COMMONWEALTH OF PENNSYLVANIA

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Member, Pennsylvania Association Of Notaries

DOCKET NO. PRD-2584USNP Joint Inventors Page 7 of 15

IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this , 200 7.

STATE OF

Pennsylvania)

COUNTY OF

BE IT REMEMBERED, That on this $\mathcal{I}^{\mathcal{H}}$ day of \mathcal{I}_{an} , 200 \mathcal{I}_{an} , before me, a Notary Public, personally appeared Dana J. Johnson, 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.

kinidered Cooney

COMMONWEALTH OF PENNSYLVANIA

Notarial Seal

Geraldine F. Cooney, Notary Public Uwchlan Twp., Chester County My Commission Expires June 7, 2008

Member, Patinsylvanis Association Of Notaries

DOCKET NO. PRD-2584USNP Joint Inventors Page 8 of 15

	VY WHI 200	EREOF, Assignor	has hereunto	set his hand ar	nd seal this	day of
		Ehab Khalil	(L.S.)			
STATE OF	\ ~~)				
COUNTY OF) SS.)				
who executed the contents the	, person the fore hereof, l	REMEMBERED, ally appeared Eheegoing instrument he/she did acknown and deed for the	ab Khalil, who I in my presence /ledge that he/sl	, and I having fi ne signed, seale	the person narst made knowed, and deliver	n to him/her
				Notary Pub	lic	

DOCKET NO. PRD-2584USNP Joint Inventors Page 9 of 15

5th day of IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this , 200 7.

Kristi A. Leonard (L.S.)

STATE OF Pennsylvania)
) ss.
COUNTY OF Hontepn key)

BE IT REMEMBERED, That on this 5" day of Jan, 200 7, before me, a Notary Public, personally appeared Kristi A. Leonard, 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 J

COMMONWEALTH OF PENNSYLVANIA

Notarial Seal Geraldine F. Cooney, Nictary Public Uwchlan Twp. Chester County My Commission Expires June 7, 2008

Mamber, Pennsylvania Association Of Notaries

DOCKET NO. PRD-2584USNP Joint Inventors Page 10 of 15

IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this 47 day of √_{3,1} , 200<u>7</u>.

Tianbao Lu (L.S.)

STATE OF Rennsylvania)
) ss.
COUNTY OF Montgomery)

BE IT REMEMBERED, That on this 5th day of Jan, 200⁷, before me, a Notary Public, personally appeared Tianbao Lu, 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.

Mandera & Cookey Notary Public

COMMONWEALTH OF PENNSYLVANIA

Notarial Seal Geraldine F. Cooney, Notary Public Uwchlan Twp., Chester County My Commission Expires June 7, 2008

Member, Pennsylvania Association Of Notaries

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	NY WHE 200 <u> </u> .	ERÉOF, Assignor	has hereunto	set his hand	and seal this	day of
		Anna C. Marone	(L.S.) y			
STATE OF	١)				
COUNTY OF) ss.)				
	BE IT	REMEMBERED,	That on this	day of	, 200 <u> </u> , t	pefore me, a
Notary Public,	persona	ally appeared Anr	na C. Maroney,	who I am sati	sfied is the pers	on named in
and who exec	cuted the	e foregoing instru	ment in my pr	esence, and I	having first ma	de known to
him/her the co	ontents 1	hereof, he/she di	d acknowledge	that he/she s	igned, sealed, a	and delivered
the same as h	is/her vo	luntary act and de	ed for the uses	and purposes	therein express	ed.
				Notary P	ublic	-

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IN TESTIMON, 20	/ WHEREOF, 10	Assignor	has hereunto	set his	hand and	I seal this	day of
	Jan L.	Sechler	(L.S.)				
STATE OF)					
COUNTY OF	SS.)					
E	BE IT REMEN	BERED,	That on this	c	lay of	, 200,	before me, a
Notary Public, p	ersonally appe	eared Jan	L. Sechler, wh	o I am s	satisfied is	the person	named in and
who executed the	he foregoing in	ıstrument i	n my presenc	e, and I	having firs	t made kno	own to him/her
the contents the	ereof, he/she d	id acknow	ledge that he/	she sign	ed, sealed	, and deliv	ered the same
as his/her volun	tary act and de	ed for the	uses and purp	oses the	erein expre	ssed.	
				No	otary Public		weendate.

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IN TESTIMON) , 20	WHEREOF, 0	Assignor ha	s hereunto	set his	s hand	and se	al this	day of
	Jeremy	M. Travins	(L.S.)					
STATE OF)						
COUNTY OF	SS.)						
E	BE IT REMEN	BERED, Th	at on this	!	day of	, 2	200,	before me, a
Notary Public, p	ersonally appe	ared Jeremy	M. Travins	, who l	am sati	sfied is	the pe	rson named in
and who execu	ted the forego	ing instrume	nt in my pr	esence	, and I	having	first m	ade known to
him/her the con	tents thereof,	he/she did a	cknowledge	that h	e/she si	gned, s	sealed,	and delivered
the same as his	/her voluntary	act and deed	for the uses	and p	urposes	therein	expres	sed.
			4000000 translation of the same of the sam	N	lotary Pu	ıblic		normania.

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	NY WH! 200	EREOF, Assig	gnor has hereun	to set his	hand and	I seal this	day of
		Robert W. Tu	(L.S.)				
STATE OF	>)					
COUNTY OF) SS.)					
and who exec	person cuted th ontents	ally appeared e foregoing in thereof, he/sh	ED, That on this Robert W. Tumanstrument in my e did acknowled deed for the us	an, who I a presence, ge that he	, and I have/she signe	d is the personing first maded, sealed, a	ade known to and delivered
				No	otary Public	2	-

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IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this 9th day of

STATE OF PENNSYLVANIA)
SS.
COUNTY OF MONTEPNERY)

RECORDED: 05/15/2007

BE IT REMEMBERED, That on this \(\) day of \(\frac{1}{2} \tau_1 \), 200\(\frac{1}{2} \), before me, a Notary Public, personally appeared Thomas P. Markotan, 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.

Meraldene 9

COMMONWEALTH OF PENNSYLVANIA

Notarial Seal Geraldine F. Cooney, Notary Public Uwchlan Twp., Chester County My Commission Expires June 7, 2008

Member, Pannsvivania Association Of Notaries