PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
------------------	----------------

NATURE OF CONVEYANCE: **ASSIGNMENT**

CONVEYING PARTY DATA

Name	Execution Date
Donald W. Ludovici	06/05/2009
Richard W. Connors	06/04/2009
Steven J. Coats	06/12/2009
Li Liu	06/05/2009
Bart L. De Corte	06/05/2009
Dana L. Johnson	06/05/2009
Mark J. Schulz	06/05/2009

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11329642

CORRESPONDENCE DATA

500885098

Fax Number: (732)524-2808

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

Phone: 732-524-2368 Email: ESmith63@its.jnj.com Correspondent Name: Philip S. Johnson

Address Line 1: One Johnson & Johnson Plaza

Address Line 4: New Brunswick, NEW JERSEY 08933-7003

ATTORNEY DOCKET NUMBER: PRD2418USNP

REEL: 022820 FRAME: 0469

PATENT

NAME OF SUBMITTER:	Evelina Smith
Total Attachments: 20	
source=Executed Assignments#page1.tif	
source=Executed Assignments#page2.tif	
source=Executed Assignments#page3.tif	
source=Executed Assignments#page4.tif	
source=Executed Assignments#page5.tif	
source=Executed Assignments#page6.tif	
source=Executed Assignments#page7.tif	
source=Executed Assignments#page8.tif	
source=Executed Assignments#page9.tif	
source=Executed Assignments#page10.tif	
source=Executed Assignments#page11.tif	
source=Executed Assignments#page12.tif	
source=Executed Assignments#page13.tif	
source=Executed Assignments#page14.tif	
source=Executed Assignments#page15.tif	
source=Executed Assignments#page16.tif	
source=Executed Assignments#page17.tif	
source=Executed Assignments#page18.tif	
source=Executed Assignments#page19.tif	
source=Executed Assignments#page20.tif	

DOCKET NO. PRD-2418USNP Joint Inventors Page 1 of 5

ASSIGNMENT

Serial No.

11/329,642

Filed

January 11, 2006

WHEREAS,

Donald W. Ludovici, residing at 1390 Masi Road, Quakertown, PA, 18951, USA; Richard W. Connors, residing at 424 Belle Lane, Harleysville, PA, 19438, USA; Steven W. Coats, residing at 1029 Brayton Court, Quakertown, PA, 18951, USA; Li Liu, residing at 271 Fox Chase Lane, Doylestown, PA, 18901, USA; Bart L. De Corte, residing at 1590 Winding Road, Southampton, PA, 18966, USA; Dana L. Johnson, residing at 1343 Lonely Cottage Road, Upper Black Eddy, PA, 18972, USA; Mark J. Schulz, residing at 4015 Carriage Drive, Skippack, PA, 19474, USA;

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

TRIAZOLOPYRIMIDINE DERIVATIVES

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

WHEREAS, Janssen Pharmaceutica NV, 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;

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 5th day of Tune, 2009.

(L.S.

STATE OF Pennsylvania,

COUNTY OF Montgomery)

BE IT REMEMBERED, That on this of day of June, 2009, before me, a Notary Public, personally appeared Donald W. Ludovici, 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 Maria I. Shchuka, Notary Public Lower Gwynedd Twp., Montgomery County My Commission Expires April 14, 2011

Member, Pennsylvania Association of Notaries

DOCKET NO. PRD-2418USNP Joint Inventors Page 3 of 5

IN TESTIMONY WHEREOF, Assignor has, 2009.	as hereunto set his hand and seal this	day of
Richard W. Conno	(L.S.) ors	
) ss.		
who executed the foregoing instrument in	connors, who I am satisfied is the person name my presence, and I having first made known to dge that he/she signed, sealed, and delivered the	ed in and him/her
	Notary Public	
IN TESTIMONY WHEREOF, Assignor ha	as hereunto set his hand and seal this	day of
Steven W. Coats	(L.S.)	
STATE OF) ss.		
COUNTY OF)		
executed the foregoing instrument in my p	ats, who I am satisfied is the person named in a resence, and I having first made known to him that he/she signed, sealed, and delivered the s	and who
	Notary Public	

DOCKET NO. PRD-2418USNP Joint Inventors Page 4 of 5

day of

IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this 5 June, 2009. COMMONWEALTH OF PENNSYLVANIA Notarial Seal STATE OF Pennsiflucians) ss.
COUNTY OF blonggomeny Maria I. Shchuka, Notary Public Lower Gwynedd Twp., Montgomery County My Commission Expires April 14, 2011 Member, Pennsylvania Association of Notaries BE IT REMEMBERED, That on this 5th day of Line, 2009, before me, a Notary Public, personally appeared Li Liu, 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 TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this 5 th June , 2009. COMMONWEALTH OF PENNSYLVANIA Bart L. De Corte Notarial Seal Maria I. Shchuka, Notary Public Lower Gwynedd Twp., Montgomery County My Commission Expires April 14, 2011 STATE OF Pennsylvania) ss. COUNTY OF Montgornery Member, Pennsylvania Association of Notaries BE IT REMEMBERED, That on this biday of land, 2009, before me, a Notary Public, personally appeared Bart L. De Corte, 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-2418USNP Joint Inventors Page 5 of 5

IN TESTIMONY WHEREOF	, Assignor has	hereunto set his hand	d and seal this 5th day of
	Donas Jul	(L.S.)	COMMONWEALTH OF PENNSYLVA
,	Dana L. Johns	on	Notarial Seal
STATE OF Pennsylva	equie		Maria I. Shchuka, Notary Public Lower Gwynedd Twp., Montgomery Cot My Commission Expires April 14, 201
COUNTY OF Montgo	meny	,	Member, Pennsylvania Association of Not
Public, personally appeared I executed the foregoing instru	ument in my pres acknowledge tha	n, who I am satisfied is sence, and I having fir at he/she signed, seale	0101
IN TESTIMONY WHEREOF , 2009.	, Assignor has	hereunto set his hand	d and seal this day of
	Mark J. Schulz	(L.S.)	
STATE OF	1		
STATE OF)) ss.		
COUNTY OF)		
Public, personally appeared I executed the foregoing instru	ment in my pres acknowledge tha	who I am satisfied is t sence, and I having firs at he/she signed, seale	, 2009, before me, a Notary the person named in and who st made known to him/her the ed, and delivered the same as ressed.
	-	Notary F	Public

ASSIGNMENT

Serial No.

11/329,642

Filed

January 11, 2006

WHEREAS,

Donald W. Ludovici, residing at 1390 Masi Road, Quakertown, PA, 18951, USA; Richard W. Connors, residing at 424 Belle Lane, Harleysville, PA, 19438, USA; Steven W. Coats, residing at 1029 Brayton Court, Quakertown, PA, 18951, USA; Li Liu, residing at 271 Fox Chase Lane, Doylestown, PA, 18901, USA; Bart L. De Corte, residing at 1590 Winding Road, Southampton, PA, 18966, USA; Dana L. Johnson, residing at 1343 Lonely Cottage Road, Upper Black Eddy, PA, 18972, USA; Mark J. Schulz, residing at 4015 Carriage Drive, Skippack, PA, 19474, USA;

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

TRIAZOLOPYRIMIDINE DERIVATIVES

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

WHEREAS, Janssen Pharmaceutica NV, 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;

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

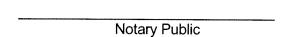
And for the consideration aforesaid, Assignors covenant and agree with said Assignee that he has a full and unencumbered title to the inventions and discoveries above described and hereby assigned, which title they warrant unto said Assignee, its successors and assigns;

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 , 2009.

	Donald W. Ludovici	_ (L.S.)
STATE OF)	
) s. COUNTY OF)	

BE IT REMEMBERED, That on this day of , 2009, before me, a Notary Public, personally appeared Donald W. Ludovici, 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-2418USNP Joint Inventors Page 3 of 5

IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this day o , 2009.
Richard W. Connors STATE OF) ss. COUNTY OF (L.S.)
BE IT REMEMBERED, That on this day of , 2009, 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.
Notary Public
IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this day of , 2009.
STATE OF) ss. COUNTY OF)
BE IT REMEMBERED, That on this day of , 2009, before me, a Notary Public, personally appeared Steven W. Coats, 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-2418USNP Joint Inventors Page 4 of 5

IN TESTIMONY WHEREO, 2009.	OF, Assignor has	hereunto set	his hand a	nd seal this	day of
	Li Liu	(L.S.)			
STATE OF)				
COUNTY OF) ss.)				
BE IT REMIPUTE Public, personally appeared the foregoing instrument in thereof, he/she did acknow voluntary act and deed for the statement of	my presence, ar vledge that he/sh	n satisfied is th nd I having firs e signed, seal	ne person na it made knov ed, and deli	amed in and wn to him/he	r the contents
			Notary Pub	lic	
IN TESTIMONY WHEREO , 2009.	PF, Assignor has	hereunto set	his hand ar	nd seal this	day of
	Bart L. De Cor	(L.S.)			
STATE OF)				
COUNTY OF) ss.)				
BE IT REME Public, personally appeared executed the foregoing inst contents thereof, he/she did his/her voluntary act and de	rument in my pre d acknowledge tha	e, who I am sa sence, and I h at he/she signe	tisfied is the aving first med, sealed, a	person name ade known t and delivered	to him/her the
			Notary Pub	lic	

DOCKET NO. PRD-2418USNP Joint Inventors Page 5 of 5

IN TESTIMONY WHEREOF , 2009.	, Assignor has hereunto set his hand and seal this day of
	(L.S.) Dana L. Johnson
STATE OF)
COUNTY OF) ss.)
Public, personally appeared E executed the foregoing instrucentents thereof, he/she did a	IBERED, That on this day of , 2009, before me, a Notary Dana L. Johnson, who I am satisfied is the person named in and who ment in my presence, and I having first made known to him/her the acknowledge that he/she signed, sealed, and delivered the same as I for the uses and purposes therein expressed.
	Notary Public
IN TESTIMONY WHEREOF, 2009.	Assignor has hereunto set his hand and seal this day of
\sim	Mark J. Schulz
STATE OF PA)
STATE OF PA COUNTY OF Montgoming) ss. ')
BE IT REMEM Public, personally appeared M executed the foregoing instru- contents thereof, he/she did a	BERED, That on this \int day of $k^n k 2009$, before me, a Notary Mark J. Schulz, who I am satisfied is the person named in and who ment in my presence, and I having first made known to him/her the acknowledge that he/she signed, sealed, and delivered the same as I for the uses and purposes therein expressed.
	Aline R Tillular Notary Jublic

COMMISSION OF PERINEYL VANIA

NOTARIAL SEAL
ALINA R. ZIELINSKI Notary Public
Upper Providence Trip., Montgomery County
My Commission Expires November 10, 2012

DOCKET NO. PRD-2418USNP Joint Inventors Page 1 of 5

ASSIGNMENT

Serial No.

11/329,642

Filed

January 11, 2006

WHEREAS.

Donald W. Ludovici, residing at 1390 Masi Road, Quakertown, PA, 18951, USA; Richard W. Connors, residing at 424 Belle Lane, Harleysville, PA, 19438, USA; Steven J. Coats, residing at 764 Alberta Drive, McDonough, GA, 30252, USA; Li Liu, residing at 271 Fox Chase Lane, Doylestown, PA, 18901, USA; Bart L. De Corte, residing at 1590 Winding Road, Southampton, PA, 18966, USA; Dana L. Johnson, residing at 1343 Lonely Cottage Road, Upper Black Eddy, PA, 18972, USA; Mark J. Schulz, residing at 4015 Carriage Drive, Skippack, PA, 19474, USA;

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

TRIAZOLOPYRIMIDINE DERIVATIVES

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

WHEREAS, Janssen Pharmaceutica NV, 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-2418USNP Joint Inventors Page 2 of 5

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
, 2009.	-										-	

		Donald W. Ludovici	_ (L.S.)
STATE OF) 00)	
COUNTY OF) ss.)	

BE IT REMEMBERED, That on this day of , 2009, before me, a Notary Public, personally appeared Donald W. Ludovici, 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 V , 2009.	VHEREOF, Assignor has I	nereunto set his hand	and seal this	day of
STATE OF) ss.	Richard W. Connors)	(L.S.)		
Public, personally a who executed the fithe contents thereof	TREMEMBERED, That or appeared Richard W. Conrioregoing instrument in my of, he/she did acknowledge act and deed for the uses a	ors, who I am satisfied presence, and I having that he/she signed, se	g first made known to aled, and delivered the	d in and him/her
	-	Notary P	ublic	
IN TESTIMONY W June , 2009.	/HEREOF, Assignor has h	nereunto set his hand	and seal this 12	day of
STATE OF Georg	Steven J. Coats			
STATE OF George) ss. COUNTY OF Dak	داه)			
BE I Public, personally a executed the forego contents thereof, he	T REMEMBERED, That on ppeared Steven WCCoats, bing instrument in my presents of the did acknowledge that and deed for the uses and	who I am satisfied is the ence, and I having first he/she signed, sealed	ne person named in a made known to him I, and delivered the sessed. The control of the sessed of th	and who /her the

DOCKET NO. PRD-2418USNP Joint Inventors Page 4 of 5

IN TESTIMONY WHEREO , 2009.	F, Assignor has hereunto set his hand and seal this day of
	Li Liu (L.S.)
STATE OF)
COUNTY OF) ss.)
Public, personally appeared the foregoing instrument in thereof, he/she did acknow	MBERED, That on this day of , 2009, before me, a Notar Li Liu, who I am satisfied is the person named in and who execute my presence, and I having first made known to him/her the content ledge that he/she signed, sealed, and delivered the same as his/he uses and purposes therein expressed.
	Notary Public
IN TESTIMONY WHEREO, 2009.	F, Assignor has hereunto set his hand and seal this day o
	Bart L. De Corte
STATE OF)
COUNTY OF) ss.)
Public, personally appeared executed the foregoing instruction contents thereof, he/she did	MBERED, That on this day of , 2009, before me, a Notary Bart L. De Corte, who I am satisfied is the person named in and who ument in my presence, and I having first made known to him/her the acknowledge that he/she signed, sealed, and delivered the same as d for the uses and purposes therein expressed.
	Notary Public

DOCKET NO. PRD-2418USNP Joint Inventors Page 5 of 5

IN TESTIMONY WHEREON , 2009.	F, Assignor has hereunto set his hand and seal this	day o
	Dana L. Johnson	
STATE OF)	
COUNTY OF) ss.)	
Public, personally appeared executed the foregoing instruction tents thereof, he/she did	MBERED, That on this day of , 2009, before me, a ND Dana L. Johnson, who I am satisfied is the person named in an ument in my presence, and I having first made known to him/h acknowledge that he/she signed, sealed, and delivered the said for the uses and purposes therein expressed.	d who er the
	Notary Public	
IN TESTIMONY WHEREOF , 2009.	F, Assignor has hereunto set his hand and seal this	day of
	Mark J. Schulz (L.S.)	
STATE OF)	
COUNTY OF) ss.)	
Public, personally appeared lexecuted the foregoing instruction that the second in the	MBERED, That on this day of , 2009, before me, a N Mark J. Schulz, who I am satisfied is the person named in and iment in my presence, and I having first made known to him/he acknowledge that he/she signed, sealed, and delivered the sand for the uses and purposes therein expressed.	t who
	Notary Public	

ASSIGNMENT

Serial No.

11/329,642

Filed

January 11, 2006

WHEREAS,

Donald W. Ludovici, residing at 1390 Masi Road, Quakertown, PA, 18951, USA; Richard W. Connors, residing at 424 Belle Lane, Harleysville, PA, 19438, USA; Steven W. Coats, residing at 1029 Brayton Court, Quakertown, PA, 18951, USA; Li Liu, residing at 271 Fox Chase Lane, Doylestown, PA, 18901, USA; Bart L. De Corte, residing at 1590 Winding Road, Southampton, PA, 18966, USA; Dana L. Johnson, residing at 1343 Lonely Cottage Road, Upper Black Eddy, PA, 18972, USA; Mark J. Schulz, residing at 4015 Carriage Drive, Skippack, PA, 19474, USA;

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

TRIAZOLOPYRIMIDINE DERIVATIVES

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

WHEREAS, Janssen Pharmaceutica NV, 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-2418USNP Joint Inventors Page 2 of 5

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 . 2009.

	Donald W. Ludovici	_ (L.S.)
STATE OF)	
) s: COUNTY OF)	

BE IT REMEMBERED, That on this day of , 2009, before me, a Notary Public, personally appeared Donald W. Ludovici, 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	

June, 2009.	reunto set his hand and seal this (o - day of	
STATE OF YEACEA)	S.)	
STATE OF YEW JUSTY)		
) ss. COUNTY OF YYEACEA)		
BE IT REMEMBERED, That on the Public, personally appeared Richard W. Connot who executed the foregoing instrument in my p	this the day of pune, 2009, before me, a Notary ars, who I am satisfied is the person named in and resence, and I having first made known to him/her hat he/she signed, sealed, and delivered the same	
IRMA MARINO NOTARY PUBLIC OF NEW JERSEY Commission Expires 7/27/2010	Notary Public	
IN TESTIMONY WHEREOF, Assignor has he , 2009.	ereunto set his hand and seal this day of	
(l Steven W. Coats	L.S.)	
STATE OF)		
) ss. COUNTY OF)		
BE IT REMEMBERED, That on this day of , 2009, before me, a Notary Public, personally appeared Steven W. Coats, 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-2418USNP Joint Inventors Page 4 of 5

IN TESTIMONY WHEREOF , 2009.	F, Assignor has hereunto set his hand and seal this day of		
	Li Liu (L.S.)		
STATE OF)) ss.		
COUNTY OF)		
BE IT REMEMBERED, That on this day of , 2009, before me, a Notary Public, personally appeared Li Liu, 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, 2009.	Assignor has hereunto set his hand and seal this day of		
	Bart L. De Corte		
STATE OF)) ss.		
COUNTY OF)		
Public, personally appeared I	MBERED, That on this day of , 2009, before me, a Notary Bart L. De Corte, who I am satisfied is the person named in and who		
contents thereof, he/she did	Iment in my presence, and I having first made known to him/her the acknowledge that he/she signed, sealed, and delivered the same as d for the uses and purposes therein expressed.		
	Notary Public		

DOCKET NO. PRD-2418USNP Joint Inventors Page 5 of 5

IN TESTIMONY WHEREOF , 2009.	Assignor has hereunto set his hand and seal this da	ay of	
-	Dana L. Johnson		
STATE OF)) ss.		
COUNTY OF)		
BE IT REMEMBERED, That on this day of , 2009, before me, a Notary Public, personally appeared Dana L. 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 , 2009.	, Assignor has hereunto set his hand and seal this da	ay of	
	Mark J. Schulz (L.S.)		
STATE OF)		
COUNTY OF) ss.)		
	BERED, That on this day of , 2009, before me, a No		
Public, personally appeared Mark J. Schulz, 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		
, , ,			

RECORDED: 06/12/2009