PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Yongqi Deng	08/23/2011
Gerald W. Shipps Jr.	08/24/2011
Sie-Mun Lo	08/19/2011
Liang Zhu	08/24/2011
Alan B. Cooper	08/22/2011
Kiran Muppalla	08/19/2011

RECEIVING PARTY DATA

Name:	chering Corporation	
Street Address:	2000 Galloping Hill Road	
City:	Kenilworth	
State/Country:	NEW JERSEY	
Postal Code:	07033	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13819366

CORRESPONDENCE DATA

Fax Number: 7325944720

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

732-594-0586 Phone: us_efs@merck.com Email:

Correspondent Name: Merck

Address Line 1: 126 East Lincoln Avenue

Address Line 2: RY 86-2011A

Address Line 4: Rahway, NEW JERSEY 07065

ATTORNEY DOCKET NUMBER: OC20107157-US-PCT

REEL: 029884 FRAME: 0195

PATENT

NAME OF SUBMITTER:	Henry C. Jeanette
Total Attachments: 16	
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PATENT REEL: 029884 FRAME: 0196

WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,

(1)	YONGQI DENG	located at	NEWTON, MA	02459
(2)	GERALD W. SHIPPS, JR.	located at	STONEHAM, MA	02180
(3)	SIE-MUN LO	located at	SPRINGFIELD, VA	22150
(4)	LIANG ZHU	located at	WALTHAM, MA	02453
(5)	ALAN B. COOPER	located at	WEST CALDWELL, NJ,	07006
(6)	KIRAN MUPPALLA	located at	CRANFORD, NJ	07016

(hereinafter ASSIGNOR(S)), is/are the inventor(s) of the invention described in an application for Patents having the Attorney Docket Number indicated above and the following Title of the Invention:

INDAZOLE DERIVATIVES USEFUL AS ERK INHIBITORS

and in the following application(s):

U.S. Provisional Application No.	<u>31/379,176</u> filed on <u>09/01/2010;</u>	
U.S. Application No.	having a filing date of; and	
PCT International Application No	having a filing date of	

WHEREAS I/WE covenant that the rights and property herein conveyed are free and clear of any encumbrance, and that I/we have the full right to convey the same as herein expressed.

WHEREAS, Schering Corporation, a corporation organized under the laws of the State of New Jersey, having an office at 2000 Galloping Hill Road, Kenilworth, New Jersey 07033, and its successors, assigns and legal representatives (hereinafter **ASSIGNEE**), is desirous of obtaining the entire right, title and interest in, to and under the invention disclosed in said application or applications;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I/we, said ASSIGNOR(S), do each hereby sell, assign and transfer or confirm the grant and assignment to said ASSIGNEE my/our entire right, title and interest in all countries of the world in and to my/our invention described in said application for Patents, in and to the right to file patent applications in the name of ASSIGNEE, its designee, or in any or all of our names, at its election, on the aforesaid invention in all countries of the world, together with all rights of priority in the aforesaid countries deriving from the above-identified application for Patents under the International Convention for the Protection of Industrial Property, under the Inter-American Convention relating to Inventions, Patents, Designs and Industrial Models and under any other international arrangement relating to patents or intellectual property, in and to any and all Letters Patent that are granted from the aforesaid application for Patents, in and to any applications claiming priority benefits to a provisional patent application or other applications filed on said invention, and in and to any continuations, divisions, reexaminations, reissues, renewals and extensions thereof of any of said Letters Patent, the same to be held and enjoyed by said ASSIGNEE, to the full ends of the terms for which all Letters Patent therefore may be granted, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

AND I/WE HEREBY covenant and agree that we will at any time, upon the request and at the expense of ASSIGNEE, without further compensation or charge to said ASSIGNEE, execute and deliver any and all documents that may be necessary or desirable to perfect the title to the foregoing invention, patent applications, and Letters Patent and continuations, divisions, reexaminations, reissues, renewals and extensions thereof in the name of ASSIGNEE, including the execution and procurement of any and all further documents evidencing this assignment and sale as may be necessary or desirable for recording the same in the Patent Office of any country concerned, and will make all rightful oaths and declarations and do all lawful acts requisite for procuring the same or for aiding therein.

I/WE HEREBY authorize **ASSIGNEE** to insert in this Instrument the Application Number(s) and the filing date(s) of said application for Patents when officially notified thereof.

This document may be executed in any number of counterparts, each of which so executed shall be deemed to be an original, but all such components shall together constitute but one and the same document.

Executed this 23 day of August, 201.
YONGQI DENG
ACKNOWLEDGEMENT
State of New Jersey) S.s.:
County of SUFFOLK)
On this day of MGUST, 2011, personally appeared before me YONGQI DENG to me known, and known by me to be the same person described in and who executed the foregoing instrument, and acknowledged that he (she) executed the same, of his (her) own free will for the purpose set forth.
(Seal) Watoria for
Notary Public
VICTORIA TAYLOR Motory Public Commissional in Massacatements My Commission Emphres February 21, 2014
Executed this 29th day of August , 2011.
2/100-01.
GERALD W. SHIPPS, JR.
ACKNOWLEDGEMENT
MASSITUHUSETIS
State of New Jersey)) s.s.:
County of SUFFOLK)
On this AHA day of MAGUET, 2011, personally appeared before me GERALD W. SHIPPS, JR. to me known, and known by me to be the same person described in and who executed the foregoing instrument, and acknowledged that he (she) executed the same, of his (her) own free will for the purpose set forth.
(Seal) With the Notary Public

Executed this	day of		, 20	
SIE-MUN LO				
ACKNOWLEDGEN	IENT			
State of New Jer	sey)) s.s.:		
County of)		
SIE-MUN LO to n	ne known, and k rument, and ack	nown by me to	be the sa	personally appeared before me ame person described in and who executed executed the same, of his (her) own free will
(Seal)				
	Notary Public	;		•
Executed this 24	day of/	<u> 4ug</u>	, 20 <u>//</u>	-
MASS State of New Jer County of SUF	McHusetts sey)) s.s.:)		
LIANG ZHU, to I	me known, and trument, and acl	known by me t	o be the	20 1, personally appeared before me same person described in and who executed e) executed the same, of his (her) own free will
(Seal)	Notary Public		No. of the last of	-
1	VICTORIA Notary F Communication of	*v60865		

Executed this	_day of	,	20					
ALAN B. COOPE	R							
ACKNOWLEDGEM	ENT							
State of New Jers)) s.s.:						
County of)						
ALAN B. COOPE executed the fore	day of	nd known ind acknow	by me to	o be the	same person	described	in and	who
(Seal)								
	Notary Public		10.2000	•				
Executed this	_ day of		, 20					
KIRAN MUPPALI	L A		***************************************	-				
ACKNOWLEDGEN	IENT							
State of New Jers	sey)) s.s.:						
County of)						
KIRAN MUPPAL executed the fore	day of _ LA to me known, a egoing instrument, a ne purpose set forth	and known and acknow	by me t	to be the	personally same person she) executed	n described	in and	who
(Seal)								
	Notary Public			-				

WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,

(1)	YONGQI DENG	located at	NEWTON, MA	02459
(2)	GERALD W. SHIPPS, JR.	located at	STONEHAM, MA	02180
(3)	SIE-MUN LO	located at	SPRINGFIELD, VA	22150
(4)	LIANG ZHU	located at	WALTHAM, MA	02453
(S)	ALAN B. COOPER	located at	WEST CALDWELL, NJ,	07006
(6)	KIRAN MUPPALLA	located at	CRANFORD, NJ	07016

(hereinafter ASSIGNOR(S)), is/are the inventor(s) of the invention described in an application for Patents having the Attorney Docket Number indicated above and the following Title of the Invention:

INDAZOLE DERIVATIVES USEFUL AS ERK INHIBITORS

and in	the fo	llowing	applicat	tion((s):	
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U.S. Provisional Application No. 6	1/379,176 filed on 09/01/2010;	
U.S. Application No.	having a filing date of	; and
PCT International Application No.	having a filing	g date of

WHEREAS I/WE covenant that the rights and property herein conveyed are free and clear of any encumbrance, and that I/we have the full right to convey the same as herein expressed.

WHEREAS, Schering Corporation, a corporation organized under the laws of the State of New Jersey, having an office at 2000 Galloping Hill Road, Kenilworth, New Jersey 07033, and its successors, assigns and legal representatives (hereinafter **ASSIGNEE**), is desirous of obtaining the entire right, title and interest in, to and under the invention disclosed in said application or applications:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I/we, said ASSIGNOR(S), do each hereby sell, assign and transfer or confirm the grant and assignment to said ASSIGNEE my/our entire right, title and interest in all countries of the world in and to my/our invention described in said application for Patents, in and to the right to file patent applications in the name of ASSIGNEE, its designee, or in any or all of our names, at its election, on the aforesaid invention in all countries of the world, together with all rights of priority in the aforesaid countries deriving from the above-identified application for Patents under the International Convention for the Protection of Industrial Property, under the Inter-American Convention relating to Inventions, Patents, Designs and Industrial Models and under any other international arrangement relating to patents or intellectual property, in and to any and all Letters Patent that are granted from the aforesaid application for Patents, in and to any applications claiming priority benefits to a provisional patent application or other applications filed on said invention, and in and to any continuations, divisions, reexaminations, reissues, renewals and extensions thereof of any of said Letters Patent, the same to be held and enjoyed by said ASSIGNEE, to the full ends of the terms for which all Letters Patent therefore may be granted, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

AND I/WE HEREBY covenant and agree that we will at any time, upon the request and at the expense of **ASSIGNEE**, without further compensation or charge to said **ASSIGNEE**, execute and deliver any and all documents that may be necessary or desirable to perfect the title to the foregoing invention, patent applications, and Letters Patent and continuations, divisions, reexaminations, reissues, renewals and extensions thereof in the name of **ASSIGNEE**, including the execution and procurement of any and all further documents evidencing this assignment and sale as may be necessary or desirable for recording the same in the Patent Office of any country concerned, and will make all rightful oaths and declarations and do all lawful acts requisite for procuring the same or for aiding therein.

I/WE HEREBY authorize **ASSIGNEE** to insert in this Instrument the Application Number(s) and the filing date(s) of said application for Patents when officially notified thereof.

This document may be executed in any number of counterparts, each of which so executed shall be deemed to be an original, but all such components shall together constitute but one and the same document.

PATENT PATENT: REEL: 029884 FRAME: 0201

Executed this day of	,	20		
YONGQI DENG				
ACKNOWLEDGEMENT				
State of New Jersey)) s.s.:			
County of)			
On this day YONGQI DENG to me known the foregoing instrument, and for the purpose set forth.	n, and known by me	to be the same	person describe	
(Seal)				
Notary P	ublic			
Executed this day of		20		
GERALD W. SHIPPS, JR.	1.1,141,042,000,000,000			
ACKNOWLEDGEMENT				
State of New Jersey)			
County of) s.s.:)			
On this da GERALD W. SHIPPS, JR. t who executed the foregoing (her) own free will for the pur	to me known, and ki instrument, and ac	nown by me to	be the same pe	
(Seal)				
Notary P	hublic hubbana			

Page 2 of 4
Computer Generated Template "Assignment-Schering Corporation. Single Assignee Worldwide" (Assignment) Merck Sharp & Dohme Corp. 07/09/2010 REEL: 029884 FRAME: 0202

Executed this 19 th day of <u>August</u> ,	20 <u>//</u> .
Sylly /6	
ACKNOWLEDGEMENT	
State of New Jersey)	
County of frifty / VA) s.s.:	
On this <u>/ / day of</u> And, SIE-MUN LO to me known, and known by me to b	20 <u>11</u> , personally appeared before me the same person described in and who executed he (she) executed the same, of his (her) own free will
(Seal)	·
Notary Public	
RAKESH K. BABBAR NOTARY PUBLIO COMMONWEALTH OF VIRGINIA MY COMMISSION EXPIRES MAR. 31, 2618 COMMISSION # 7284817	
Executed this day of,	20
LIANG ZHU	
ACKNOWLEDGEMENT	
State of New Jersey)) s.s.:	
County of)	
LIANG ZHU. to me known, and known by me to	, 20, personally appeared before me be the same person described in and who executed he (she) executed the same, of his (her) own free will
(Seal)	
Notary Public	

Executed this	day of		, 20					
ALAN B. COOPE	R							
ACKNOWLEDGEN	IENT							
State of New Jers	sey)) s.s.:						
County of) 5.5						
On this ALAN B. COOPI executed the fore own free will for the	egoing instrumer	n, and known nt, and acknow	by me to	be the	same persor	described	in and wr	10
(Seal)								
***************************************	Notary Public							
Executed this	day of		, 20					
KIRAN MUPPAL	LA							
ACKNOWLEDGE	MENT							
State of New Jer	sey)						
County of) s.s.:)						
On this KIRAN MUPPAL executed the fore own free will for the	egoing instrume	n, and known nt, and acknow	by me t	be the	personally same persor she) executed	n described	in and wh	10
(Seal)								
	Notary Public			•				

WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,

(1)	YONGQI DENG	located at	NEWTON, MA	02459
(2)	GERALD W. SHIPPS, JR.	located at	STONEHAM, MA	02180
(3)	SIE-MUN LO	located at	SPRINGFIELD, VA	22150
(4)	LIANG ZHU	located at	WALTHAM, MA	02453
(5)	ALAN B. COOPER	located at	WEST CALDWELL, NJ,	07006
(6)	KIRAN MUPPALLA	located at	CRANFORD, NJ	07016

(hereinafter ASSIGNOR(S)), is/are the inventor(s) of the invention described in an application for Patents having the Attorney Docket Number indicated above and the following Title of the Invention:

INDAZOLE DERIVATIVES USEFUL AS ERK INHIBITORS

and in the following application(s):

U.S. Provisional Application No. 6	<u>1/379,176</u> filed on <u>09/01/2010;</u>	
U.S. Application No.	having a filing date of	; and
PCT International Application No.	having a filing o	date of

WHEREAS I/WE covenant that the rights and property herein conveyed are free and clear of any encumbrance, and that I/we have the full right to convey the same as herein expressed.

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NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I/we, said ASSIGNOR(S), do each hereby sell, assign and transfer or confirm the grant and assignment to said ASSIGNEE my/our entire right, title and interest in all countries of the world in and to my/our invention described in said application for Patents, in and to the right to file patent applications in the name of ASSIGNEE, its designee, or in any or all of our names, at its election, on the aforesaid invention in all countries of the world, together with all rights of priority in the aforesaid countries deriving from the above-identified application for Patents under the International Convention for the Protection of Industrial Property, under the Inter-American Convention relating to Inventions, Patents, Designs and Industrial Models and under any other international arrangement relating to patents or intellectual property, in and to any and all Letters Patent that are granted from the aforesaid application for Patents, in and to any applications claiming priority benefits to a provisional patent application or other applications filed on said invention, and in and to any continuations, divisions, reexaminations, reissues, renewals and extensions thereof of any of said Letters Patent, the same to be held and enjoyed by said ASSIGNEE, to the full ends of the terms for which all Letters Patent therefore may be granted, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

AND I/WE HEREBY covenant and agree that we will at any time, upon the request and at the expense of ASSIGNEE, without further compensation or charge to said ASSIGNEE, execute and deliver any and all documents that may be necessary or desirable to perfect the title to the foregoing invention, patent applications, and Letters Patent and continuations, divisions, reexaminations, reissues, renewals and extensions thereof in the name of ASSIGNEE, including the execution and procurement of any and all further documents evidencing this assignment and sale as may be necessary or desirable for recording the same in the Patent Office of any country concerned, and will make all rightful oaths and declarations and do all lawful acts requisite for procuring the same or for aiding therein.

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Executed this	day of		, 20	
YONGQI DENG				
ACKNOWLEDGEM	IENT			
State of New Jers	sey)	s.s.:	
County of		ý		
YONGQI DENG to	rument, and	and known by	y me to be the	20, personally appeared before me e same person described in and who executed) executed the same, of his (her) own free will
(Seal)				
	Notary Pu	blic		
Executed this	day of		. 20	
			,	
GERALD W. SHI	PPS, JR.			
ACKNOWLEDGEN	MENT			
State of New Jer	sey)	s.s.:	
County of)	5.5	
GERALD W. SHI	e foregoing i	me known, a nstrument, ar	and known by	20, personally appeared before me me to be the same person described in and ged that he (she) executed the same, of his
(Seal)				•
	Notary Pu	blic		•

Executed this day of	, 20		
SIE-MUN LO		_	
ACKNOWLEDGEMENT			
State of New Jersey)) s.s.:		
County of) 3.3		
On this day of SIE-MUN LO to me known, and known the foregoing instrument, and acknowle for the purpose set forth.	by me to be the	, personally appeared before me same person described in and who ex e) executed the same, of his (her) own	ecuted n free will
(Seal)			
Notary Public		_	
Executed this day of	, 20	·	
		_	
LIANG ZHU			
ACKNOWLEDGEMENT			
State of New Jersey)		
County of) s.s.:)		
On this day of LIANG ZHU. to me known, and known the foregoing instrument, and acknowle for the purpose set forth.	n by me to be th		o executed
(Seal)			
Notary Public			

Executed this <u>> ></u> day of <u>August</u> , 20 <u>11</u> .
ALAN B. COOPER
ACKNOWLEDGEMENT
State of New Jersey)
County of Unan) s.s.:
On this day of day of day of 2011, personally appeared before me ALAN B. COOPER to me known, and known by me to be the same person described in and who executed the foregoing instrument, and acknowledged that he (she) executed the same, of his (her) own free will for the purpose set forth.
(Seal) Jaws O Scott
Notary Public
DAWN A. SCOTT NOTARY PUBLIC OF NEW JERSEY Commission Expires March 5, 2013
Executed this day of, 20
KIRAN MUPPALLA
ACKNOWLEDGEMENT
State of New Jersey
) s.s.: County of)
On this day of, 20, personally appeared before me KIRAN MUPPALLA to me known, and known by me to be the same person described in and who executed the foregoing instrument, and acknowledged that he (she) executed the same, of his (her) own free will for the purpose set forth.
(Seal)
Notary Public

WORLDWIDE ASSIGNMENT

WHEREAS, I/WE,

(1)	YONGQI DENG,	located at	NEWTON, MA	02459
(2)	GERALD W. SHIPPS, JR.	located at	STONEHAM, MA	02180
(3)	SIE-MUN LO	located at	SPRINGFIELD, VA	22150
(4)	LIANG ZHU	located at	WALTHAM, MA	02453
(5)	ALAN B. COOPER	located at	WEST CALDWELL, NJ,	07006
(6)	KIRAN MUPPALLA	located at	CRANFORD, NJ	07016

(hereinafter ASSIGNOR(S)), is/are the inventor(s) of the invention described in an application for Patents having the Attorney Docket Number indicated above and the following Title of the Invention:

INDAZOLE DERIVATIVES USEFUL AS ERK INHIBITORS

	and ii	n the	following	application	S):
--	--------	-------	-----------	-------------	---	----

U.S. Provisional Application No. 61	<u>/379,176</u> filed on <u>09/01/2010;</u>
U.S. Application No.	having a filing date of; and
PCT International Application No	having a filing date of

WHEREAS I/WE covenant that the rights and property herein conveyed are free and clear of any encumbrance, and that I/we have the full right to convey the same as herein expressed.

WHEREAS, Schering Corporation, a corporation organized under the laws of the State of New Jersey, having an office at 2000 Galloping Hill Road, Kenilworth, New Jersey 07033, and its successors, assigns and legal representatives (hereinafter **ASSIGNEE**), is desirous of obtaining the entire right, title and interest in, to and under the invention disclosed in said application or applications:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I/we, said ASSIGNOR(S), do each hereby sell, assign and transfer or confirm the grant and assignment to said ASSIGNEE my/our entire right, title and interest in all countries of the world in and to my/our invention described in said application for Patents, in and to the right to file patent applications in the name of ASSIGNEE, its designee, or in any or all of our names, at its election, on the aforesaid invention in all countries of the world, together with all rights of priority in the aforesaid countries deriving from the above-identified application for Patents under the International Convention for the Protection of Industrial Property, under the Inter-American Convention relating to Inventions, Patents, Designs and Industrial Models and under any other international arrangement relating to patents or intellectual property, in and to any and all Letters Patent that are granted from the aforesaid applications filed on said invention, and in and to any continuations, divisions, reexaminations, reissues, renewals and extensions thereof of any of said Letters Patent, the same to be held and enjoyed by said ASSIGNEE, to the full ends of the terms for which all Letters Patent therefore may be granted, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

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Corp. 07/09/2010 PATENT REEL: 029884 FRAME: 0209

Executed this day of	, 20	
YONGQI DENG		
ACKNOWLEDGEMENT		
State of New Jersey)) s.s.:	
County of)	
YONGQI DENG to me known, and know	n by me to be the	20, personally appeared before me same person described in and who executed executed the same, of his (her) own free will
(Seal)		
Notary Public		
Executed this day of	, 20	
GERALD W. SHIPPS, JR.		
ACKNOWLEDGEMENT		
State of New Jersey)) s.s.:	
County of)	
GERALD W. SHIPPS, JR. to me know	n, and known by c, and acknowledg	20, personally appeared before me me to be the same person described in and ged that he (she) executed the same, of his
(Seal)		
Notary Public		

Page 2 of 4
Computer Generated Template "Assignment-Schering Corporation. Single Assignee Worldwide" (Assignment) Merck Sharp & Dohme Corp. 07/09/2010

Executed this day of		, 20	
SIE-MUN LO			-
ACKNOWLEDGEMENT			
State of New Jersey)) s.s.:		
County of)		
	y me to	be the sa	personally appeared before me ame person described in and who executed) executed the same, of his (her) own free will
(Seal)			
Notary Public			-
Executed thisday of		, 20	
LIANG ZHU			_
ACKNOWLEDGEMENT			
State of New Jersey)) s.s.:		
County of) 5.5		
	by me t	o be the	, 20, personally appeared before me same person described in and who executed e) executed the same, of his (her) own free will
(Seal)			
Notary Public			-

Executed this	day of	. 1	20				
ALAN B. COOPI	ER		ezhben kan kan keket eve				
ACKNOWLEDGE	WENT						
State of New Jer	rsey)					
County of) s.s.:)					
On this ALAN B. COOP executed the for own free will for t	egoing instrume	ent, and acknowle	, 20 by me to be edged that), personally the same person he (she) executed	appeared described the same,	before in and v of his (f	me vho ner)
(Seal)							
aapaqaaaaaaaaaaa	Notary Publ	is					
Executed this	day of	······································	20				
West allowers	eyelle	19 Aug 26 1					
KIRAN MUPPAL	LA						
ACKNOWLEDGE	MENT				÷		
State of New Je)					
County of M	<u>amouth</u>) s.s.:)					
On this KIRAN MUPPA! executed the for own free will for	LLA to me kno regoing instrum	ent, and acknowl	by me to be	0 personally e the same person he (she) executed	ı described	in and v	who
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