## 502580813 11/25/2013

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT2626851

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

## **CONVEYING PARTY DATA**

Name	Execution Date
NIKOLAI (MYKOLA) IGNATYEV	08/13/2013
MICHAEL SCHULTE	08/12/2013
KENTARO KAWATA	09/05/2013
TOMOHISA GOTO	09/05/2013
EDUARD BERNHARDT	08/01/2013
VERA BERNHARDT-PITCHOUGINA	08/01/2013
HELGE WILLNER	07/29/2013

### RECEIVING PARTY DATA

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## PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14119893

## **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER: MERCK-4149 PATENT

502580813 REEL: 031665 FRAME: 0278

NAME OF SUBMITTER:	MICHAIAH COPP	
Signature:	/Michaiah Copp/	
Date:	11/25/2013	
Total Attachments: 3 source=4149_EXECUTED_Assignment#page1.tif source=4149_EXECUTED_Assignment#page2.tif source=4149_EXECUTED_Assignment#page3.tif		

PATENT REEL: 031665 FRAME: 0279

# ASSIGNMENT

ATTY, DOCKET NO.

WHEREAS the below named inventor (if only one inventor is named below) or inventors (if plural inventors are named below) hereinafter referred to as the ASSIGNOR invented a certain improvement(s) relating to

]	U.S. Pr	rovisional Application Serial No.	was filed in the United States Patent and Trademark Office on	·
Z	A U.S.	Non-Provisional		
		Application Serial No. fo	o be filed in the United States Patent and Trademark Office was er Letters Patent was filed in the U.S. Patent and Trademark Office on PCT/EP2012/002179 was filed on 23 May 2012, designating the United States of the U.S. Patent and Trademark Office was expected to the U.S. Patent and Trademark Office on Patent and Patent and Trademark Office on Patent an	
	AND V	WHEREAS MERCK PAT	FENT GESELLSCHAFT	

MIT BESCHRÄNKTER HAFTUNG Darmstadt, Germany

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hereinafter referred to as the ASSIGNEE, is desirous of acquiring the entire right, title, and interest in and to said invention and all application(s) listed above, including any and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues, reexaminations and extensions thereof.

NOW, WINESETH that for good and valuable consideration, the receipt whereof is hereby acknowledged, ASSIGNOR hereby assigns, sells, and transfers to ASSIGNOE, its assigns and legal representatives, the entire and exclusive right, title and interest in and to said invention and application(s), including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted therefor, including any and all renewals, reissues, reexaminations and extensions thereof, and in and to any and all U.S. (including provisional) or foreign priority anti/or convention rights or beaching accruing or to accrue with respect to the filling or securing of patents in the United States and/or any countries foreign thereto convention rights or beaching accruing any and legal representatives to have, hold, exercise, and enjoy said invention and application, including any and all carlier priority rights (U.S. and foreign), divisions and continuations thereof, any and all Letters Patent which may be granted therefor, including any and all renewals, reissues, reexaminations and extensions thereof, including the right to sue for damages occurring before the assignment, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and daring the term or terms of any and all such Letters Patent when granted, including any and all renewals, reissues, reexaminations and extensions thereof, for the use and benefit of ASSIGNEE and its assigns and legal representatives, in as ample and beneficial a manner to all intents and purposes as the ASSIGNOR might or could have held and enjoyed the same, if the assignment had not been made.

AND ASSIGNOR hereby agrees to execute all papers that may be necessary to file applications in the United States and foreign countries for said invention and to assign the same to said ASSIGNEE, its assigns and legal representatives and to execute any other papers that may be needed in connection with filing said applications and securing Letters Patents thereon.

AND ASSIGNOR authorizes and requests the Commissioner of Patents and Trademarks to issue a Letters Patent on said application, and on any and all divisions and continuations thereof, to ASSIGNEE, its assigns and legal representatives, in accordance herewith.

The undersigned hereby grant(s) the law firm of Millen, White, Zelano & Branigan, P.C. the power to insert on this assignment information which may be necessary or desirable in order for the United States Patent and Trademark Office to property record this document.

IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR

201 FULL NAME OF SOLE OR FIRST NAMED INVENTOR	INVENTOR'S SIGNATURE	DATE
Nikolai (Mykola) Ignatyev	Nivolai/Atykola/Ignakyev	13.00.2013
202 FULL NAME OF SECOND JOINT INVENTOR		DATE
Michael Schulte		12.2.2013
203 FULL NAME OF THIRD JOINT INVENTOR	INVENTOR'S SIGNATORE	DATE
Kentaro Kawata		
204 FULL NAME OF FOURTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Tomohisa Goto		
203 FULL NAME OF FIFTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Eduard Bernhardt		
266 FULL NAME OF SIXTH JOINT INVENTOR	inventor's signature	DATE
Vera Bernhardt-Pitchougina		
207 FULL NAME OF SEVENTH JOINT INVENTOR	inventor's signature	DATE
Helge Willner		
208 FULL NAME OF EIGHTH JOINT INVENTOR	INVENTOE'S SIGNATURE	DATE
209 FULL NAME OF NINTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE

PATENT REEL: 031665 FRAME: 0280

# ASSIGNMENT

ATTY: DOCKET NO

WHEREAS the below named inventor (if only one inventor is named below) or inventors (if plural inventors are named below) hereinafter referred to as the ASSIGNOR invented a certain improvement(s) relating to

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and for w	hich one	or more of the following apply:		
	U.S. Pre	ovisional Application Serial No. wa	s filed in the United States Patent and Trademark Office on	
Ø	A U.S.	A U.S. Non-Provisional		
		Application Serial No. for Lette	iled in the United States Patent and Trademark Office was executed on even date, rs Patent was filed in the U.S. Patent and Trademark Office on EP2012/002179 was filed on 23 May 2012, designating the United States.	
	AND W	VHEREAS MERCK PATENT ( MIT BESCHRÄNK Darmstadt, German	TERHAFTUNG	

hereinafter referred to as the ASSIGNEE, is desirous of acquiring the entire right, title, and interest in and to said invention and all application(s) listed above, including any and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues, reexaminations and extensions thereof.

NOW, WITNESSETH that for good and valuable consideration, the receipt whereof is hereby acknowledged. ASSIGNOR hereby assigns, sells, and transfers to ASSIGNEE, its assigns and legal representatives, the entire and exclusive right, title and interest in and to said invention and application(s), including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted therefor, including any and all renewals, reissues, reexaminations and extensions thereof, and in and to any and all U.S. (including provisional) or foreign priority and/or convention rights or benefits accruing or to accrue with respect to the filling or securing of patents in the United States and/or any countries foreign thereto concerning said reveation. SAID ASSIGNEE, its assigns and legal representatives to have, hold, exercise, and enjoy said invention and application, including any and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, any and all Letters Patent which may be granted therefor, including any and all renewals, reissues, reexaminations and extensions thereof, including the right to suc for damages occurring before the assignment, with all the rights, powers, privileges and advantages in anywise arising from or appertanting thereto, for and during the term or terms of any and all such Letters Patent when granted, including any and all renewals, reissues, reexaminations and extensions thereof, for the use and benefit of ASSIGNEE and its assigns and legal representatives, in as anaple and beneficial a manner to all intents and purposes as the ASSIGNOR might or could have held and enjoyed the same, if the assignment had not been made.

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201 FULL NAME OF SOCE OR FIRST NAMED INVENTOR	INVENTORS SIGNATURE	DATE
Nikolai (Mykola) Ignatyev		
292 FULL NAME OF SECOND JOINT INVENTOR	inventor's signature	DATE
Michael Schulte		
203 FULL NAME OF THIRD JOINT INVENTOR	INVENTUE'S SIGNATURE	DATE
Kentaro Kawata	ws 12 23	5 PEP 2013
204 FULL NAME OF FOURTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Tomohisa Goto	To wo hisa Goto	5.581.2013
203 FULL NAME OF FIFTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Eduard Bernhardt		
206 FULL NAME OF SIXTH JOINT INVENTOR	EIVENFOR'S SIGNATURE	DATE
Vera Bernhardt-Pitchougina		
207 FULL NAME OF SEVENTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Helge Willner		
208 FULL NAME OF HIGHTH JOINT INVENTOR	INVERTOR'S SIGNATURE	DATE
209 FULL NAME OF NINTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
		1

PATENT REEL: 031665 FRAME: 0281

## ASSIGNMENT

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and for w	hich one or	more of the following apply:	
	U.S. Prov	sional Application Serial No.	was filed in the United States Patent and Trademark Office on
$\boxtimes$	A U.S. No	n-Provisional	
		Application Serial No. fr	to be filed in the United States Patent and Trademark Office was executed on even date. or Letters Patent was filed in the U.S. Patent and Trademark Office on p. PCT/EP2012/002179 was filed on 23 May 2012, designating the United States.
	AND WH	MERCK PA	TENT GESELLSCHAFT IRÄNKTER HAFTUNG Permany

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Nikolai (Mykola) Ignatyev		
202 FULL NAME OF SECOND JOINT INVENTOR	INVENTUR'S SIGNATURE	DATE
Michael Schulte		
203 FULL NAME OF THIRD JOEST INVENTOR	INVENTOR'S SIGNATURE	DATE
Kentaro Kawata		
204 FULL NAME OF FOURTH JOINT INVENTOR	INVENTOR'S SKRIATURE	DATE
Tomohisa Goto		
205 FULL NAME OF FIFTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Eduard Bernhardt	Benkanset	07 08 2013
206 FULL NAME OF SIXTH JOINT INVENTOR	LIVENTOR'S SIGNATURE	BATE
Vera Bernhardt-Pitchougina		01.08.2013
267 FULL NAME OF SEVENTH JOINT INVENTOR	INVESTOR'S SIGNATURE	DATE
Helge Willner	Jelye Jelle	28.07 2013
208 FULL NAME OF EIGHTH JOINT INVENTOR	/INVENTOR'S SIGNATURE	DATE
209 FULL NAME OF NEVTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
	***************************************	

PATENT REEL: 031665 FRAME: 0282

**RECORDED: 11/25/2013**