### 502798605 05/07/2014 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2845201

SUBMISSION TYPE:		NEW ASSIGNMENT	
NATURE OF CONVEYANCE:		ASSIGNMENT	
CONVEYING PARTY	DATA		
		Name Ex	ecution Date
ANDREE BLAUKAT		04/-	15/2014
OLIVER SCHADT		04/-	15/2014
DIETER DORSCH		04/-	15/2014
FRANK STIEBER		04/*	15/2014
RECEIVING PARTY D	ΑΤΑ		
Name:	MERC	MERCK PATENT GMBH	
Street Address:	FRANK	FRANKFURTER STRASSE 250	
City:	DARMS	DARMSTADT	
State/Country:	GERM	GERMANY	
Postal Code:	64293		
Property Typ	r	Number	
PROPERTY NUMBER	r	Neverteen	
	e	<b>Number</b> 14169891	
Property Typ Application Number:	e		
Property Typ Application Number: CORRESPONDENCE	e DATA	14169891	
Property Typ Application Number: CORRESPONDENCE Fax Number:	e DATA	(703)243-6410	vill be sent via
Property Typ Application Number: CORRESPONDENCE Fax Number: <i>Correspondence will</i> <i>US Mail.</i>	e DATA be sent to	14169891 (703)243-6410 the e-mail address first; if that is unsuccessful, it w	vill be sent via
Property Typ Application Number: CORRESPONDENCE Fax Number: <i>Correspondence will US Mail.</i> Email:	e DATA be sent to	14169891 (703)243-6410 the e-mail address first; if that is unsuccessful, it w MAIL@MWZB.COM	vill be sent via
Property Typ Application Number: CORRESPONDENCE Fax Number: <i>Correspondence will US Mail.</i> Email: Correspondent Name	e DATA be sent to	14169891 (703)243-6410 <i>the e-mail address first; if that is unsuccessful, it w</i> MAIL@MWZB.COM MILLEN WHITE ZELANO & BRANIGAN, P.C.	vill be sent via
Property Typ Application Number: CORRESPONDENCE Fax Number: <i>Correspondence will US Mail.</i> Email: Correspondent Name Address Line 1:	e DATA be sent to	(703)243-6410 <b>the e-mail address first; if that is unsuccessful, it w</b> MAIL@MWZB.COM MILLEN WHITE ZELANO & BRANIGAN, P.C. 2200 CLARENDON BLVD.	vill be sent via
Property Typ Application Number: CORRESPONDENCE Fax Number: <i>Correspondence will US Mail.</i> Email: Correspondent Name	e DATA be sent to	14169891 (703)243-6410 <i>the e-mail address first; if that is unsuccessful, it w</i> MAIL@MWZB.COM MILLEN WHITE ZELANO & BRANIGAN, P.C.	vill be sent via
Property Typ Application Number: CORRESPONDENCE Fax Number: <i>Correspondence will US Mail.</i> Email: Correspondent Name Address Line 1: Address Line 2:	e DATA be sent to	(703)243-6410 <i>the e-mail address first; if that is unsuccessful, it w</i> MAIL@MWZB.COM MILLEN WHITE ZELANO & BRANIGAN, P.C. 2200 CLARENDON BLVD. SUITE 1400	vill be sent via
Property Typ Application Number: CORRESPONDENCE Fax Number: <i>Correspondence will US Mail.</i> Email: Correspondent Name Address Line 1: Address Line 2: Address Line 4:	e DATA <i>be sent to</i> e: NUMBER:	(703)243-6410 <b>the e-mail address first; if that is unsuccessful, it w</b> MAIL@MWZB.COM MILLEN WHITE ZELANO & BRANIGAN, P.C. 2200 CLARENDON BLVD. SUITE 1400 ARLINGTON, VIRGINIA 22201	vill be sent via
Property Typ Application Number: CORRESPONDENCE Fax Number: <i>Correspondence will US Mail.</i> Email: Correspondent Name Address Line 1: Address Line 2: Address Line 4:	e DATA <i>be sent to</i> e: NUMBER:	(703)243-6410 the e-mail address first; if that is unsuccessful, it w MAIL@MWZB.COM MILLEN WHITE ZELANO & BRANIGAN, P.C. 2200 CLARENDON BLVD. SUITE 1400 ARLINGTON, VIRGINIA 22201 MERCK-3866-D01	vill be sent via
Property Typ Application Number: CORRESPONDENCE Fax Number: <i>Correspondence will US Mail.</i> Email: Correspondent Name Address Line 1: Address Line 2: Address Line 4: ATTORNEY DOCKET I	e DATA <i>be sent to</i> e: NUMBER:	(703)243-6410 the e-mail address first; if that is unsuccessful, it w MAIL@MWZB.COM MILLEN WHITE ZELANO & BRANIGAN, P.C. 2200 CLARENDON BLVD. SUITE 1400 ARLINGTON, VIRGINIA 22201 MERCK-3866-D01 JANET M. JACOBS	ill be sent via

502798605

source=Declaration-Assignment#page2.tif

#### PATENT REEL: 032839 FRAME: 0098

source=Declaration-Assignment#page3.tif source=Declaration-Assignment#page4.tif

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN	
APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGN	EE

1

Title of Invention	PYRIDAZINONE DERIVATIVES		
As the below nan	ned inventor, I hereby declare that:		
This declaration			
is directed to:	X United States Application or PCT International Application number 14/169.891 filed on 1/31/11		
The above-identi	fied application was made or authorized to be made by me.		
I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.			
AND WHEREAS			
MERCK PATENT GMBH Frankfurter Strasse 250			
	64202 Dormstadt Germany		
hereinafter referred to as the ASSIGNEE, is desirous of acquiring the entire right, title, and interest in and to said invention and all patent(s) listed above, including any and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, including any and all renewals, reissues, reexaminations and extensions thereof.			
ASSIGNOR her- right, title and in and all Letters P thereof, and in a to accrue with re invention, SAID including any ar which may be g right to sue for o arising from or renewals, reissu representatives, enjoyed the sam	WITNESSETH that for good and valuable consideration, the receipt whereof is hereby acknowledged, eby assigns, sells, and transfers to ASSIGNEE, its assigns and legal representatives, the entire and exclusive therest in and to said invention and patent(s), including any and all divisions and continuations thereof, and any atent which may be granted therefor, including any and all renewals, reissues, reexaminations and extensions and to any and all U.S. (including provisional) or foreign priority and/or convention rights or benefits accruing or espect to the filing or securing of patents in the United States and/or any countries foreign thereto concerning said of ASSIGNEE, its assigns and legal representatives to have, hold, exercise, and enjoy said invention and patent, dall earlier priority rights (U.S. and foreign),divisions and continuations thereof, any and all Letters Patent ranted therefor, including any and all renewals, reissues, reexaminations and extensions thereof, including the damages occurring before the assignment, with all the rights, powers, privileges and advantages in anywise appertaining thereto, for and during the term or terms of any and all such Letters Patent, including any and all es, reexaminations and extensions thereof, for the use and benefit of ASSIGNEE and its assigns and legal in as ample and beneficial a manner to all intents and purposes as the ASSIGNOR might or could have held and tee, if the assignment had not been made.		
and foreign con	ASSIGNOR hereby agrees to execute all papers that may be necessary to file applications in the United States intries for said invention and to assign the same to said ASSIGNEE, its assigns and legal representatives and to er papers that may be needed in connection with securing Letters Patents thereon.		
AND any and all divi	ASSIGNOR authorizes and requests the Commissioner of Patents and Trademarks to issue a Letters Patent on sions 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 properly record this document.			
	IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR		
l her fine or impriso	eby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by nment of not more than five (5) years, or both.		
	E OF INVENTOR Andrea BLAUKAT Date: 15/04/14		
Inventor:	Andree BLAUKAT Date: 20101/17		
Signature:	10HR VF		

Millen, White, Zelano & Branigan, P.C. Attorneys at Law ARLINGTON COURTHOUSE PLAZA 2200 CLARENDON BOULEVARD | SUITE 1400 | ARLINGTON VA 22201 TELEPHONE: 703.243.6333 | FAX: 703.243.6410 EMAIL: MAIL@MWZB.COM

Effective, September 16, 2012

## DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE

÷

Title of	PYRIDAZINONE DERIVATIVES	
Invention		
As the below named inventor, I hereby declare that:		
This declaration	The attached application, or	
is directed to:	X United States Application or PCT International Application number <u>14/169.891</u> filed on <u>1/31/11</u>	
The above-identified application was made or authorized to be made by me.		
I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.		
AND WHEREAS MERCK PATENT GMBH Frankfurter Strasse 250 64293 Darmstadt, Germany hereinafter referred to as the ASSIGNEE, is desirous of acquiring the entire right, title, and interest in and to said invention and all patent(s) listed above, including any and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, including any and all renewals, reissues, reexaminations and extensions thereof.		
ASSIGNOR here right, title and im and all Letters Pa thereof, and in ar to accrue with re invention, SAID including any an- which may be gr right to sue for d arising from or a renewals, reissue representatives, i	WITNESSETH that for good and valuable consideration, the receipt whereof is hereby acknowledged, by assigns, sells, and transfers to ASSIGNEE, its assigns and legal representatives, the entire and exclusive terest in and to said invention and patent(s), including any and all divisions and continuations thereof, and any atent which may be granted therefor, including any and all renewals, reissues, reexaminations and extensions at to any and all U.S. (including provisional) or foreign priority and/or convention rights or benefits accruing or spect to the filing or securing of patents in the United States and/or any countries foreign thereto concerning said ASSIGNEE, its assigns and legal representatives to have, hold, exercise, and enjoy said invention and patent, d all earlier priority rights (U.S. and foreign), divisions and continuations thereof, any and all Letters Patent anted therefor, including any and all renewals, reissues, reexaminations and extensions thereof, including the amages occurring before the assignment, with all the rights, powers, privileges and advantages in anywise ppertaining thereto, for and during the term or terms of any and all such Letters Patent, including any and all es, reexaminations and extensions thereof, for the use and benefit of ASSIGNEE and its assigns and legal in as ample and beneficial a manner to all intents and purposes as the ASSIGNOR might or could have held and e, if the assignment had not been made.	
and foreign coun	ASSIGNOR hereby agrees to execute all papers that may be necessary to file applications in the United States increase for said invention and to assign the same to said ASSIGNEE, its assigns and legal representatives and to ar papers that may be needed in connection with securing Letters Patents thereon.	
AND any and all divis	ASSIGNOR authorizes and requests the Commissioner of Patents and Trademarks to issue a Letters Patent on ions 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 properly record this document.		
	IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR	
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.		
***************************************	OF INVENTOR Oliver SCHADT A A Date: 15,04,2014	
Signature:	U. Joha dl	

Millen, White, Zelano & Branigan, P.C. Attorneys at Law Arlington Courthouse Plaza 2200 Clarendon Boulevard | Suite 1400 | Arlington VA 22201 Telephone: 703.243.6333 | Fax: 703.243.6410 Email: mail@mwzb.com

Effective, September 16, 2012

PATENT REEL: 032839 FRAME: 0101

# DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE

Title of Invention	PYRIDAZINONE DERIVATIVES
As the below nan	ned inventor, I hereby declare that:
This declaration	The attached application, or
is directed to:	X United States Application or PCT International Application number <u>14/169.891</u> filed on <u>1/31/11</u>
The above-identi	fied application was made or authorized to be made by me.
I believe that I an	n the original inventor or an original joint inventor of a claimed invention in the application.
all patent(s) listed	MERCK PATENT GMBH Frankfurter Strasse 250 64293 Darmstadt, Germany ed to as the ASSIGNEE, is desirous of acquiring the entire right, title, and interest in and to said invention and d above, including any and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, d all renewals, reissues, reexaminations and extensions thereof.
ASSIGNOR here right, title and int and all Letters Pa thereof, and in air to accrue with rei invention, SAID including any and which may be gra- right to sue for da arising from or a renewals, reissue representatives, i	WITNESSETH that for good and valuable consideration, the receipt whereof is hereby acknowledged, eby assigns, sells, and transfers to ASSIGNEE, its assigns and legal representatives, the entire and exclusive terest in and to said invention and patent(s), including any and all divisions and continuations thereof, and any itent which may be granted therefor, including any and all renewals, reissues, reexaminations and extensions of to any and all U.S. (including provisional) or foreign priority and/or convention rights or benefits accruing or spect to the filing or securing of patents in the United States and/or any countries foreign thereto concerning said ASSIGNEE, its assigns and legal representatives to have, hold, exercise, and enjoy said invention and patent, d all earlier priority rights (U.S. and foreign),divisions and continuations thereof, any and all Letters Patent: anted therefor, including any and all renewals, reissues, reexaminations and extensions thereof, including the amages occurring before the assignment, with all the rights, powers, privileges and advantages in anywise ppertaining thereto, for and during the term or terms of any and all such Letters Patent, including any and all s, reexaminations and extensions thereof, for the use and benefit of ASSIGNEE and its assigns and legal n as ample and beneficial a manner to all intents and purposes as the ASSIGNOR might or could have held and e, if the assignment had not been made.
and foreign coun	ASSIGNOR hereby agrees to execute all papers that may be necessary to file applications in the United States tries for said invention and to assign the same to said ASSIGNEE, its assigns and legal representatives and to r papers that may be needed in connection with securing Letters Patents thereon.
AND A any and all divisi	ASSIGNOR authorizes and requests the Commissioner of Patents and Trademarks to issue a Letters Patent on ions and continuations thereof, to ASSIGNEE, its assigns and legal representatives, in accordance herewith.
The un assignment infor properly record t	idersigned hereby grant(s) the law firm of Millen, White, Zelano & Branigan, P.C. the power to insert on this mation which may be necessary or desirable in order for the United States Patent and Trademark Office to this document.
	IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR
l hereb fine or imprisoni	by acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by ment of not more than five (5) years, or both.
	OF INVENTOR Dieter DORSCH Date: 15.09.2014
Inventor:	Date: Use: 15.09.2019
Signature:	Diety Davel
L	
	MILLEN, WHITE, ZELANO & BRANIGAN, P.C.

Attorneys at Law Arlington Courthouse Plaza 2200 Clarendon Boulevard | Suite 1400 | Arlington VA 22201 Telephone: 703.243.6333 | Fax: 703.243.6410 Email: mail@mwzb.com

Effective, September 16, 2012

### PATENT REEL: 032839 FRAME: 0102

DECLARATION (37 CFR 1.63)	FOR UTILITY OR DESIGN AF	PLICATION USING AN
APPLICATION DATA SHEET	(37 CFR 1.76) AND ASSIGNME	NT FOR SINGLE ASSIGNEE

Title of Invention	PYRIDAZINONE DERIVATIVES		
As the below pen	ned inventor, I hereby declare that:		
This declaration			
	X United States Application or PCT International Application number <u>14/169,891</u> filed on <u>1/31/11</u>		
is directed to:			
The above-identified application was made or authorized to be made by me.			
	I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.		
AND WHEREA	MERCK PATENT GMBH		
	Frankfurter Strasse 250		
haraingtar rafam	64293 Darmstadt, Germany red to as the ASSIGNEE, is desirous of acquiring the entire right, title, and interest in and to said invention and		
hereinafter referred to as the ASSIGNEE, is desirous of acquiring the entire fight, the, and interest in and to said invention and all patent(s) listed above, including any and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, including any and all renewals, reissues, reexaminations and extensions thereof.			
1	WITNESSETH that for good and valuable consideration, the receipt whereof is hereby acknowledged,		
L COLOR L	able easime calle and transfers to ASSIGNEF, its assigns and legal representatives, the entire and exclusive		
A has also and in	terest in and to said invention and patent(s), including any and all divisions and continuations thereof, and any atent which may be granted therefor, including any and all renewals, reissues, reexaminations and extensions		
1	a day any and all H S. (including provisional) or foreign priority and/or convention rights or penetits accruing or		
the second sectors and	angest to the filling or securing of patents in the Linited Stales and/or any countries loreign increase concerning sale		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ASSIGNEE, its assigns and legal representatives to have, hold, exercise, and enjoy said invention and patent, and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, any and all Letters Patent		
and the many house	nonted therefore including any and all renewals, reissues, reexaminations and extensions increased, including the		
right to sue for o	amages occurring before the assignment, with all the rights, powers, privileges and advantages in anywise		
I an annual a materia	an reasoning tions 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 he, if the assignment had not been made.		
and foreign cou	ASSIGNOR hereby agrees to execute all papers that may be necessary to file applications in the United States intries for said invention and to assign the same to said ASSIGNEE, its assigns and legal representatives and to her papers that may be needed in connection with securing Letters Patents thereon.		
-			
AND any and all divi	ASSIGNOR authorizes and requests the Commissioner of Patents and Trademarks to issue a Letters Patent on islons and continuations thereof, to ASSIGNEE, its assigns and legal representatives, in accordance herewith.		
That	indersigned hereby grant(s) the law firm of Millen, White, Zelano & Branigan, P.C. the power to insert on this		
assignment info	principlical necessity granics) in a law time or training, and the United States Patent and Trademark Office to principlical necessary or desirable in order for the United States Patent and Trademark Office to I this document.		
	IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR		
lher	eby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by		
	nment of not more than five (5) years, or both.		
	E OF INVENTOR Frank STIEBER I Date: 15, 4.2014		
Inventor:	Frank STIEBER Date: Date:		
Signature:	$- \kappa \leq 1/2$		
L			
	MILLEN, WHITE, ZELANO & BRANIGAN, P.C.		

Attorneys at Law Arlington Courthouse Plaza 2200 Clarendon Boulevard | Suite 1400 | Arlington VA 22201 Telephone: 703.243.6333 | Fax: 703.243.6410 Email: mail@mwzb.com

Effective, September 16, 2012

### PATENT REEL: 032839 FRAME: 0103

**RECORDED: 05/07/2014**