502925773 08/07/2014

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2972372

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
AXEL BECKER	05/12/2014
CLEMENS KUEHN	03/15/2014
CHRISTOPH SAAL	03/15/2014
OLIVER SCHADT	03/15/2014
DIETER DORSCH	03/15/2014
HEINZ-HERMANN BOKEL	03/15/2014
FRANK STIEBER	03/15/2014
CRISTINA DONINI	03/15/2014

RECEIVING PARTY DATA

Name:	MERCK PATENT GMBH
Street Address:	FRANKFURTER STRASSE 250
City:	DARMSTADT
State/Country:	GERMANY
Postal Code:	64293

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14158182

CORRESPONDENCE DATA

Fax Number: (703)243-6410

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 703-243-6333
Email: MAIL@MWZB.COM

Correspondent Name: MILLEN WHITE ZELANO & BRANIGAN, P.C. Address Line 1: 2200 CLARENDON BLVD., SUITE 1400

Address Line 2: BRION P. HEANEY/DAP

Address Line 4: ARLINGTON, VIRGINIA 22201

ATTORNEY DOCKET NUMBER:	MERCK-3870-D01
NAME OF SUBMITTER:	BRION P. HEANEY
SIGNATURE:	/Brion P. Heaney/

502925773 REEL: 033486 FRAME: 0046

DATE SIGNED:	08/07/2014	
	This document serves as an Oath/Declaration (37 CFR 1.63).	
Total Attachments: 8		
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source=KuehnDualDeclarationAssignme	ent#page1.tif	
source=SaalDualDeclarationAssignment#page1.tif		
source=SchadtDualDeclarationAssignment#page1.tif		
source=DorschDualDeclarationAssignment#page1.tif		
source=BokelDualDeclarationAssignment#page1.tif		
source=StieberDualDeclarationAssignment#page1.tif		
source=DoniniDualDeclarationAssignme	ent#page1.tif	

Title of Invention	NOVEL POLYMORPHIC FORMS OF 3-(1-(3-[5-(1-METHYL-PIPERIDIN-4-YLMETHOXY)- PYRIMIDIN-2-YLJ-BENZYL}-6-OXO-1,6-DIHYDRO-PYRIDAZIN-3-YL)-BENZONITRILE HYDROCHLORIDE SALT AND PROCESSES OF MANUFACTURING THEREOF
As the below nan	ed inventor, Thereby declare that:
This declaration	The attached application, or
is directed to:	United States Application or PCT International Application number 14/158.182 filed on January 17, 2014
The above-identif	fied application was made or authorized to be made by me.
I believe that I am	n the original inventor or an original joint inventor of a claimed invention in the application.
AND WHEREAS	
all patent(s) listed	Merck Patent GmbH Frankfurter Strasse 250 Darmstadt, GERMANY 64293 od to as the ASSIGNEE, is desirous of acquiring the entire right, title, and interest in and to said invention and above, including any and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, all renewals, reissues, reexaminations and extensions thereof.
ASSIGNOR here right, title and int and all Letters Pa thereof, and in an to accrue with res invention, SAID including any and which may be greatight to sue for de trising from or a renewals, reissue, representatives, in	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 erest in and to said invention and patent(s), including any and all divisions and continuations thereof, and any tent which may be granted therefor, including any and all renewals, reissues, reexaminations and extensions d 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, it all earlier priority rights (U.S. and foreign), divisions and continuations thereof, any and all Letters Patent unted therefor, including any and all renewals, reissues, reexaminations and extensions thereof, including the images occurring before the assignment, with all the rights, powers, privileges and advantages in anywise opertaining 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 ASSIGNEB 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 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 ASSIGNEB, its assigns and legal representatives and to rappers that may be needed in connection with securing Letters Patents thereon.
	ASSIGNOR authorizes and requests the Commissioner of Patents and Trademarks to issue a Letters Patent on one and continuations thereof, to ASSIGNEE, its assigns and legal representatives, in accordance herewith.
	dersigned 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 his document.
	IN TESTIMONY WHERBOF this assignment is executed by ASSIGNOR.
	y acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by nent of not more than five (5) years, or both.
LEGAL NAME	
Inventor:	Axel BECKER Date: 14 05 14
Signature:	AND TO THE RESIDENCE OF THE PARTY OF THE PAR

Millen, White, Zelano & Branigan, P.C.
Attorneys at Law
Arlington Courthouse Plaza
2200 Clarendon Boulevard | Suite 1400 | Arlington V a 2220 |
Telephone: 703.243.6333 | Fax: 703.243.6410
Email: mail@mwzb.com

Attorney Docket No: MERCK-3870-D01

Effective, September 16, 2012

Title of	NOVEL POLYMORPHIC FORMS OF 3-(1-(3-[5-(1-METHYL-PIPERIDIN-4-YLMETHOXY)-
Invention	PYRIMIDIN-2-YLJ-BENZYL)-6-OXO-1,6-DIHYDRO-PYRIDAZIN-3-YL)-BENZONITRILE
As the below near	HYDROCHLORIDE SALT AND PROCESSES OF MANUFACTURING THEREOF ied inventor, I hereby declare that:
	· · · · · · · · · · · · · · · · · · ·
This declaration	
is directed to:	United States Application or PCT International Application number 14/158,182 filed on January 17, 2014
The above-identit	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.
AND WHEREAS	×
	Meick Patent GmbH Frankfurter Strasse 250
	Darmstadt, GERMANY 64293
all patent(s) listed	ed to as the ASSIGNEE, is desirous of acquiring the entire right, little, and interest in and to said invention and a above, including any and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, all liternewals, reissues, reexaminations and extensions thereof.
ASSIGNOR here right, title and int and all Letters Pathereof, and in an to accrue with resinvention, SAID including any and which may be graright to sue for draising from or a remewals, reissue representatives, it enjoyed the same	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 erest in and to said invention and patent(s), including any and all divisions and continuations thereof, and any stent 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 spect to the filling 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, 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 appetraining thereto, for and during the term or terms of any and all such Letters Patent, including any and all so, 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 a if the assignment had not been made. ASSIGNOR hereby agrees to execute all papers that may be necessary to file applications in the United States
and foreign coun	tries for said invention and to assign the same to said ASSIGNEE, its assigns and legal representatives and to represent the result of t
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LEGAL NAME	80 1 7 7 7 7 7 7
Inventor:	Clemens KUEHN Date: Plater 13, 2014
Signature:	Colonia de Maria

Millen, White, Zelano & Branigan, P.C.
Attorneys at Law
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ASSIGNOR here right, title and int and all Letters Pathereof, and in an to accrue with resinvention, SAID including any and which may be gratight to sue for dearising 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 erest in and to said invention and patent(s), including any and all divisions and continuations thereof, and any tent which may be granted therefor, including any and all renewals, reissues, reexaminations and extensions d to any and all U.S. (including provisional) or foreign priority and/or convention rights or benefits accruing or spect to the filling 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, it all earlier priority rights (U.S. and foreign), divisions and continuations thereof, any and all Letters Patent unted 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 operataining 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 in as ample and beneficial a manner to all intents and purposes as the ASSIGNOR might or could have held and if the assignment had not been made.
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LEGAL NAME	
Inventor:	
Signature:	<u> </u>

Millen, White, Zelano & Branigan, P.C.
Attorneys at Law
Arlington Courthouse Plaza
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Telephone: 703.243.6333 | Fax; 703.243.6410
Email: mail@mwzb.com

Attempty Docket Not: MBRCK-3870-D01

Effective, September 16, 2012

NOVEL POLYMORPHIC FORMS OF 3-(1-(3-[5-(1-METHYL-PIPERIDIN-4-YLMETHOXY)-

Invention P'	YRIMIDIN-2-YL]-BENZYL}-6-OXO-1,6-DIHYDRO-PYRIDAZIN-3-YL)-BENZONITRILE YDROCHLORIDE SALT AND PROCESSES OF MANUFACTURING THEREOF
	inventor, Thereby declare that:
This declaration	The attached application, or
is directed to:	United States Application or PCT International Application number 14/158,182 ☐ filed on January 17, 2014
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I believe that I am the	e original inventor or an original joint inventor of a claimed invention in the application.
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	cknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by it of not more than five (5) years, or both.
LEGAL NAME OF Inventor: Oli	INVENTOR ver SCHADT // // Date: March 15, 2014
Signature:	7. Vla77

Millen, White, Zelano & Branigan, P.C.
Attorneys at Law
Arlington Courthouse Plaza
2200 Clarendon Bollevard | Suite 1400 | Arlington VA 2220 |
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Email: mail@mwzb.com

Attorney Docket No: MERCK-3870-D01

Title of

Effective. September 16, 2012

Title of Invention	PYRIMI	POLYMORPHIC FORMS OF 3-(1-{3-{5-(1-METHYL-PIPERIDIN-4-YLMETHOXY)- DIN-2-YL]-BENZYL]-6-OXO-1,6-DIHYDRO-PYRIDAZIN-3-YL)-BENZONITRILE CHLORIDE SALT AND PROCESSES OF MANUFACTURING THEREOF
As the below nan		CHLORIDE SALT AND PROCESSES OF MAINUPACTURING THEREOF Thereby declare that:
This declaration	بسبا	The attached application, or
is directed to:	X	United States Application or PCT International Application number 14/158.182 filed on January 17, 2014
The above-identit	hed applica	tion was made or authorized to be made by me.
I believe that I an	the origin	al inventor or an original joint inventor of a claimed invention in the application.
all patent(s) listed	M Fi D ed to as the above, inc	erck Patent GmbH rankfurter Strasse 250 strustedt, GERMANY 64293 ASSIGNEE, is destrous of acquiring the ratire right, title, and interest in and to said invention and luding any and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, its reissues, reexaminations and extensions thereof.
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		edge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by more than five (5) years, or both.
LEGAL NAME	OF INVEN	TOR
Inventor:	Dieter DOF	
Signature:	Stand Lage	4 On L

Millen, White, Zelano & Branigan, P.C.
Attorneys at Law
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	OF INVENTOR Heinz-Hermann BOKEL Date: Match 15, 2014
Signature:	12 in 2 - Now more By Land

Millen, Whete, Zelano & Branigan, P.C.
Attorneys at Law
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2200 Clarendon Boulevard | Suite | 400 | Arlington VA 2220 |
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Signature: R & C. C.		

Millen, White, Zelano & Branigan, P.C.
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Title of	NOVEL POLYMORPHIC FORMS OF 3-(1-(3-(5-(1-METHYL-PIPERIDIN-4-YLMETHOXY)-	
Invention	PYRIMIDIN-2-YLJ-BENZYLJ-6-OXO-1,6-DIHYDRO-PYRIDAZIN-3-YLJ-BENZONITRILE	
As the below son	HYDROCHLORIDE SALT AND PROCESSES OF MANUFACTURING THEREOF 100 September 1 havely declare that:	
max on **en and		
This declaration	The stracked application, or	
is directed to:	United States Application or PCT International Application number 14/158.182 filed on January 17, 2014	
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 Pateur Grabit		
Frunkfurter Streese 250 Dermandt, GERMANY 64293		
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.		
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 patent(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 according or		
	spect to the filling 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, I 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, releases, 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 appertuining thereto, for and during the term or terms of any and all such Letters Patent, including any and all renewals, reissues, reexaminations and extensions thereof, for the use and benefit of ASSKINEB 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		
sajoyed 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 securing Letters Patents thereon.		
AND ASSIGNOR authorizes and requests the Commissioner of Patents and Trademarks to Issue a Letters Patent 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 & Branigau, 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 (S) years, or both.		
LEGAL NAME		
myenur.	Cristina DONINI Date: March 15, 2014	
Signature:		
Į		

Millen, White, Zelano & Branigan, P.C. Attorneys at Law Arlington Codetholiee Plaza 2200 Clarendon Boulevard I Suite 14001 Arlington VA 22201 Telephone: 703.243.6333 I Fam: 703.243.6410 Email: Mail@mwzb.com

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Effective, Suprember 16, 2013

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