

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT7724703

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ANDREAS GOLLNER	03/21/2017
JOACHIM BROEKER	03/17/2017
ANNIKA GILLE	03/14/2017
STEFAN GOEPPER	03/10/2017
MANUEL HENRY	03/10/2017
GUENTHER HUCHLER	03/10/2017
CHRISTIANE KOFINK	03/31/2017
JUERGEN RAMHARTER	03/17/2017
HARALD WEINSTABL	03/20/2017
NINA KERRES	04/07/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	BOEHRINGER INGELHEIM INTERNATIONAL GMBH
<b>Street Address:</b>	BINGER STRASSE 173
<b>City:</b>	INGELHEIM AM RHEIN
<b>State/Country:</b>	GERMANY
<b>Postal Code:</b>	55216
<b>PROPERTY NUMBERS Total: 2</b>	
<b>Property Type</b>	<b>Number</b>
<b>Patent Number:</b>	10882866
<b>Patent Number:</b>	10717742
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(312)324-1001
<i>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.</i>	
<b>Phone:</b>	3123241000
<b>Email:</b>	wapatents@morganlewis.com, luz.gonzalez@morganlewis.com
<b>Correspondent Name:</b>	MORGAN, LEWIS & BOCKIUS LLP
<b>Address Line 1:</b>	110 NORTH WACKER DRIVE
<b>Address Line 2:</b>	SUITE 2800
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<b>ATTORNEY DOCKET NUMBER:</b>	105218-03-5013
<b>NAME OF SUBMITTER:</b>	CHRISTOPHER J. BETTI, PH.D.
<b>SIGNATURE:</b>	/Christopher J. Betti/
<b>DATE SIGNED:</b>	01/04/2023

**Total Attachments: 20**

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Assignment  
U.S. Serial No. 15/287,958  
Date of Filing: October 7, 2016

Attorney Docket No. 12-0400-US-1

### CONFIRMATION OF ASSIGNMENT -- WORLDWIDE

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and further pursuant to local law and/or intercompany agreements, the entire right, title, and interest of the undersigned inventor has been previously transferred, sold, and assigned unto:

BOEHRINGER INGELHEIM INTERNATIONAL GmbH  
Binger Strasse 173  
Ingelheim am Rhein 55216  
Federal Republic of Germany

and its successors (hereinafter "Assignee"), for the United States and the Territories and Possessions thereof and all foreign countries and regions, in and to the inventions (hereinafter referred to as the "inventions") as set forth in the following United States patent application(s): Application No. 15/287,958; filed October 7, 2016 (hereinafter referred to as the "Application"), including all rights to provisionals, nonprovisionals, divisionals, continuations, continuation-in-parts, Patent Cooperation Treaty (PCT) applications, and national stages of any such PCT applications, and all other foreign patent applications based in whole or in part upon the inventions or upon the Application, and any and all Letters Patent and reissues, reexaminations, and extensions of Letters Patent granted in any country for the inventions or upon the Application or any patent application claiming priority rights from the Application, and every priority right that is or may be predicated upon or arise from the inventions, or from the Application, and including all rights to sue for any infringement of the Letters Patent, and further including all rights to past damages relating to third party infringement of the Letters Patent, the Assignee being hereby authorized to file and prosecute patent applications, including completing formalities and recordation of ownership claims, in any or all countries and regions on any or all of the inventions in the name of the undersigned or in the name of the Assignee or otherwise as the Assignee may deem advisable, under the PCT or otherwise; the United States Patent and Trademark Office and corresponding patent granting authorities outside the United States being hereby authorized to issue or transfer all the Letters Patent issuing from any patent applications claiming the inventions or claiming priority from the Application to the Assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or other right heretofore given, and that the undersigned will do all acts reasonably serving to ensure that the inventions, the Application, and any Letters Patent which may

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NAME AND SIGNATURE OF INVENTOR

Name: Andreas GOLLNER

Signature: \_\_\_\_\_

Date: 07/21/2017

Assignment  
U.S. Serial No. 15/287,958  
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NAME AND SIGNATURE OF INVENTOR

Name: Joachim BROEKER

Signature:  Date: 10.3.2012

Assignment  
U.S. Serial No. 15/287,958  
Date of Filing: October 7, 2016

Attorney Docket No. 12-0400-US-1

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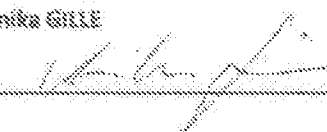
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NAME AND SIGNATURE OF INVENTOR

Name: Annika GILLE

Signature:  Date: 02/16/2017



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U.S. Serial No. 15/287,958  
Date of Filing: October 7, 2016

Attorney Docket No. 12-6400-US-1

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Attorney Docket No. 17-0400-US-1

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NAME AND SIGNATURE OF INVENTOR

Name: Stefan GOEPPER

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Assignment  
U.S. Serial No. 15/287,958  
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Attorney Docket No. 12-0400-U5-1

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NAME AND SIGNATURE OF INVENTOR

Name: Manuel HENRY

Signature:  Date: 03/14/2017

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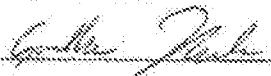
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**NAME AND SIGNATURE OF INVENTOR**

Name: Guenther HUCHLER

Signature:  Date: 03/10/2017

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and its successors (hereinafter "Assignee"), for the United States and the Territories and Possessions thereof and all foreign countries and regions, in and to the inventions (hereinafter referred to as the "Inventions") as set forth in the following United States patent application(s): Application No. 15/287,958; filed October 7, 2016 (hereinafter referred to as the "Application"), including all rights to provisionals, nonprovisionals, divisionals, continuations, continuation-in-parts, Patent Cooperation Treaty (PCT) applications, and national stages of any such PCT applications, and all other foreign patent applications based in whole or in part upon the Inventions or upon the Application, and any and all Letters Patent and reissues, reexaminations, and extensions of Letters Patent granted in any country for the Inventions or upon the Application or any patent application claiming priority rights from the Application, and every priority right that is or may be predicated upon or arise from the inventions, or from the Application, and including all rights to sue for any infringement of the Letters Patent, and further including all rights to past damages relating to third party infringement of the Letters patent, the Assignee being hereby authorized to file and prosecute patent applications, including completing formalities and recordation of ownership claims, in any or all countries and regions on any or all of the Inventions in the name of the undersigned or in the name of the Assignee or otherwise as the Assignee may deem advisable, under the PCT or otherwise; the United States Patent and Trademark Office and corresponding patent granting authorities outside the United States being hereby authorized to issue or transfer all the Letters Patent issuing from any patent applications claiming the Inventions or claiming priority from the Application to the Assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or other right heretofore given, and that the undersigned will do all acts reasonably serving to ensure that the Inventions, the Application, and any Letters Patent which may

Assignment  
U.S. Serial No. 15/287,958  
Date of Filing: October 7, 2016

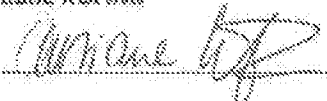
Attorney Docket No. 12-0400-US-1

issue from any patent applications claiming the inventions or claiming priority from the Application shall be held and enjoyed by the Assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to the Assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, declarations, and lawful affidavits in form and substance which may be requested by the Assignee, to furnish the Assignee with all facts relating to the inventions and/or the Application or the history thereof and any and all documents, photographs, models, samples, or other physical exhibits which may embody the inventions or relate to the Application, and generally do everything possible to aid the Assignee, its successors, legal representatives, and assigns, to obtain and enforce proper patent protection, in all countries and regions, for the inventions, the Application, and/or Letters Patent that may issue as a result of the Application and from any patent applications claiming priority to the Application, and not to take any action challenging or opposing, on any grounds whatsoever, Assignee's rights granted under this Agreement, or the validity of the transfer of the ownership rights hereunder.

The undersigned hereby grant(s) an authorized representative of Assignee the power to insert in this Assignment any further identification that may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office and/or corresponding patent granting authorities outside the United States, and to handle all correspondence relating to the Application or any patent applications claiming priority from the Application.

**NAME AND SIGNATURE OF INVENTOR**

Name: Christiane KOFINE

Signature:  Date: 31.3.17



Assignment  
U.S. Serial No. 15/287,958  
Date of Filing: October 7, 2016

Attorney Docket No. 12-0800-US-1

### CONFIRMATION OF ASSIGNMENT -- WORLDWIDE

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and further pursuant to local law and/or intercompany agreements, the entire right, title, and interest of the undersigned inventor has been previously transferred, sold, and assigned unto:

BOEHRINGER INGELHEIM INTERNATIONAL GmbH  
Binger Strasse 173  
Ingelheim am Rhein 55216  
Federal Republic of Germany

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**NAME AND SIGNATURE OF INVENTOR**

Name: Juergen RAEDHARTER

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

19. 03. 2017

Assignment  
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Date of Filing: October 7, 2016

Attorney Docket No. 12-G400-US-1

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NAME AND SIGNATURE OF INVENTOR

Name: Harald WEINSPART

Signature: 

Date: 10.03.2017

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U.S. Serial No. 15/287,958  
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Attorney Docket No. 12-0400-US-1

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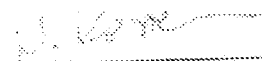
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**NAME AND SIGNATURE OF INVENTOR**

Name: Nina KERRES

Signature:  Date: 07 04 2017