

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4357261

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
SUSANNE RÖHRIG	03/01/2017
ALEXANDER HILLISCH	03/06/2017
JULIA STRABBURGER	03/09/2017
STEFAN HEITMEIER	03/01/2017
MARTINA VICTORIA SCHMIDT	03/02/2017
KARL-HEINZ SCHLEMMER	03/01/2017
ADRIAN TERSTEEGEN	03/01/2017
ANJA BUCHMÜLLER	03/01/2017
CHRISTOPH GERDES	03/02/2017
MARTINA SCHAFFER	02/28/2017
HENRIK TELLER	03/03/2017
ELOISA JIMENEZ NUNEZ	03/13/2017
HARTMUT SCHIROK	03/06/2017
JÜRGEN KLAR	03/10/2017
MARIO LOBELL	03/06/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	BAYER PHARMA AKTIENGESELLSCHAFT
<b>Street Address:</b>	MÜLLERSTR. 178
<b>City:</b>	BERLIN
<b>State/Country:</b>	GERMANY
<b>Postal Code:</b>	13353
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15513853
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(703)816-4100
<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>	703-816-4000

**Email:** ap@nixonvan.com  
**Correspondent Name:** NIXON & VANDERHYE PC  
**Address Line 1:** 901 NORTH GLEBE ROAD  
**Address Line 2:** SUITE 1100  
**Address Line 4:** ARLINGTON, VIRGINIA 22203

<b>ATTORNEY DOCKET NUMBER:</b>	GRT/6487-0133
<b>NAME OF SUBMITTER:</b>	GARY R. TANIGAWA
<b>SIGNATURE:</b>	/Gary R. Tanigawa/
<b>DATE SIGNED:</b>	04/06/2017
	This document serves as an Oath/Declaration (37 CFR 1.63).

**Total Attachments: 12**

source=Combined-Dec-Assig#page1.tif  
source=Combined-Dec-Assig#page2.tif  
source=Combined-Dec-Assig#page3.tif  
source=Combined-Dec-Assig#page4.tif  
source=Combined-Dec-Assig#page5.tif  
source=Combined-Dec-Assig#page6.tif  
source=Combined-Dec-Assig#page7.tif  
source=Combined-Dec-Assig#page8.tif  
source=Combined-Dec-Assig#page9.tif  
source=Combined-Dec-Assig#page10.tif  
source=Combined-Dec-Assig#page11.tif  
source=Combined-Dec-Assig#page12.tif

ASSIGNMENT WITH DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)**ASSIGNMENT**

Whereas, I/We, the undersigned inventor(s) hereinafter called assignor(s), have invented certain improvements described in the application identified below; and

Whereas, 1) BAYER PHARMA AKTIENGESELLSCHAFT of 1) Müllerstr. 178, 13353 Berlin, DE, (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/We, the above named assignor(s), hereby sell, assign and transfer to the above named assignee, its successors, legal representatives, and assigns, my/our entire right, title and interest, if any, in the invention and the application for the United States of America, including all direct and indirect divisions, continuations, and continuations-in-part thereof, and all original, extended, reissued, reviewed, and reexamined Letters Patent of the United States, and all countries foreign thereto, that may be granted thereon, including rights of priority under the International Convention of Paris (1883) as amended, including the right to claim priority under 35 U.S.C. §119, and I/we request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I/we hereby agree that the assignee may apply for foreign Letters Patent on the invention and I/we will without further consideration, communicate all facts know to me/us and execute without further consideration all papers deemed necessary by the assignee in connection with the United States and foreign applications when called upon to do so by the assignee, its successors, legal representatives, or assigns. I/We further represent and warrant that I/We have the full right to convey the interest assigned by this assignment, and that I/We have not granted any rights inconsistent with the rights granted herein. I/We further acknowledge an obligation of assignment of this invention to assignee at the time the invention was made.

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)

**DECLARATION**

As a below named inventor, I hereby declare that this assignment with declaration is directed to:

☐ The attached application, OR ☒ United States Application or PCT International Application  
Number PCT/EP2015/071646 filed on 2015-09-22 (Confirmation No. \_\_\_\_\_).

**PRE-AIA**

My residence, mailing address, and citizenship are as stated below next to my name.

I believe the inventor(s) named below to be the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention titled:

SUBSTITUTED OXOPYRIDINE DERIVATIVES

I hereby state that I have reviewed and understand the contents of the above identified application, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT International filing date of the continuation-in-part application.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

**POST-AIA**

The above identified application was made or was authorized to be made by me.

I believe I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this assignment with declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both.

**Authorization To Permit Access To Application by Participating Office**

☐ If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the above-identified application is filed access to the above-identified patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, or other intellectual property office in which a foreign application claiming priority to the above-identified application is filed to have access to the application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the application-as-filed with respect to: 1) the above-identified patent application-as-filed, 2) any foreign application to which the above-identified application claims priority under 35 USC 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the above-identified patent application, and 3) any U.S. application-as-filed from which benefit is sought in the above-identified patent application.

In accordance with 37 CFR 1.14(e), access may be provided to information concerning the date of filing the Authorization to Permit Access to Application by Participating Office.

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE

1. Dr. Susanne RÖHRIG  
40724 Hilden, DE  
Dietrich-Bonhoeffer-Straße 66, 40724 Hilden, DE  
DE

 2017-03-01

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE

2. Prof. Dr. Alexander HILLISCH  
42651 Solingen, DE  
Stöckerberg 3, 42651 Solingen, DE  
AT

 2017-03-06

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE

3. Julia STRAßBURGER  
42115 Wuppertal, DE  
Mozartstr. 7, 42115 Wuppertal, DE  
DE

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE

4. Stefan HEITMEIER  
42489 Wülfrath, DE  
Am Wasserturm 56, 42489 Wülfrath, DE  
DE

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE

5. Dr. Martina Victoria SCHMIDT  
51063 Köln, DE  
Düsseldorfer Str. 75, 51063 Köln, DE  
DE

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE

6. Dr. Karl-Heinz SCHLEMMER  
42113 Wuppertal, DE  
Wildsteig 22 a, 42113 Wuppertal, DE  
DE

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE

7. Dr. Adrian TERSTEEGEN  
42111 Wuppertal, DE  
Rübezahlweg 8, 42111 Wuppertal, DE  
DE

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE

8. Dr. Anja BUCHMÜLLER  
45259 Essen, DE  
Baderweg 72a, 45259 Essen, DE  
DE

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE

9. Dr. Christoph GERDES  
51063 Köln, DE  
Düsseldorfer Str. 75, 51063 Köln, DE  
DE

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE

10. Dr. Martina SCHÄFER  
13465 Berlin, DE  
Gurnemannzpfad 77, 13465 Berlin, DE  
DE

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE

11. Dr. Henrik TELLER  
18258 Schwaan, DE  
Alte Weide 40a, 18258 Schwaan, DE  
DE

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE

12. Dr. Eloisa JIMENEZ NUNEZ  
42117 Wuppertal, DE  
Hindenburgstr. 74, 42117 Wuppertal, DE  
ES

*[Signature]* 13.03.2017

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE

13. Dr. Hartmut SCHIROK  
40764 Langenfeld, DE  
Pestalozzistr. 39a, 40764 Langenfeld, DE  
DE

*[Signature]* 6.3.2017

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE

14. Dr. Jürgen KLAR  
42109 Wuppertal, DE  
Leipziger Straße 6, 42109 Wuppertal, DE  
DE

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE

15. Dr. Mario LOBELL  
42113 Wuppertal, DE  
Am Eigenbach 16, 42113 Wuppertal, DE  
DE

*Mario Lobell* 6.3.2017

ASSIGNMENT WITH DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)

## ASSIGNMENT

Whereas, I/We, the undersigned inventor(s) hereinafter called assignor(s), have invented certain improvements described in the application identified below; and

Whereas, 1) BAYER PHARMA AKTIENGESELLSCHAFT of 1) Müllerstr. 178, 13353 Berlin, DE, (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/We, the above named assignor(s), hereby sell, assign and transfer to the above named assignee, its successors, legal representatives, and assigns, my/our entire right, title and interest, if any, in the invention and the application for the United States of America, including all direct and indirect divisions, continuations, and continuations-in-part thereof, and all original, extended, reissued, reviewed, and reexamined Letters Patent of the United States, and all countries foreign thereto, that may be granted thereon, including rights of priority under the International Convention of Paris (1883) as amended, including the right to claim priority under 35 U.S.C. §119, and I/we request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I/we hereby agree that the assignee may apply for foreign Letters Patent on the invention and I/we will without further consideration, communicate all facts known to me/us and execute without further consideration all papers deemed necessary by the assignee in connection with the United States and foreign applications when called upon to do so by the assignee, its successors, legal representatives, or assigns. I/We further represent and warrant that I/We have the full right to convey the interest assigned by this assignment, and that I/We have not granted any rights inconsistent with the rights granted herein. I/We further acknowledge an obligation of assignment of this invention to assignee at the time the invention was made.

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)

## DECLARATION

As a below named inventor, I hereby declare that this assignment with declaration is directed to:

☐ The attached application, OR ☒ United States Application or PCT International Application  
Number PCT/EP2015/071646 filed on 2015-09-22 (Confirmation No. \_\_\_\_\_).

## PRE-AIA

My residence, mailing address, and citizenship are as stated below next to my name.

I believe the inventor(s) named below to be the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention titled:

SUBSTITUTED OXOPYRIDINE DERIVATIVES

I hereby state that I have reviewed and understand the contents of the above identified application, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

## POST-AIA

The above identified application was made or was authorized to be made by me.

I believe I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this assignment with declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both.

## Authorization To Permit Access To Application by Participating Office

☐ If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the above-identified application is filed access to the above-identified patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, or other intellectual property office in which a foreign application claiming priority to the above-identified application is filed to have access to the application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the application-as-filed with respect to: 1) the above-identified patent application-as-filed, 2) any foreign application to which the above-identified application claims priority under 35 USC 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the above-identified patent application, and 3) any U.S. application-as-filed from which benefit is sought in the above-identified patent application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing the Authorization to Permit Access to Application by Participating Office.

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE

1. Dr. Susanne RÖHRIG  
40724 Hilden, DE  
Dietrich-Bonhoeffer-Straße 66, 40724 Hilden, DE  
DE

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE

2. Prof. Dr. Alexander HILLISCH  
42651 Solingen, DE  
Stöckerberg 3, 42651 Solingen, DE  
AT

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE

3. Julia STRASSBURGER  
42115 Wuppertal, DE  
Mozartstr. 7, 42115 Wuppertal, DE  
DE

 2017-03-09

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE

4. Stefan HEITMEIER  
42489 Wülfrath, DE  
Am Wasserturm 56, 42489 Wülfrath, DE  
DE

 2017-03-09

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE

5. Dr. Martina Victoria SCHMIDT  
51063 Köln, DE  
Düsseldorfer Str. 75, 51063 Köln, DE  
DE

 2017-03-02

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE

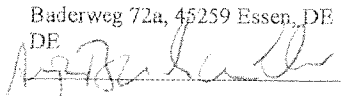
6. Dr. Karl-Heinz SCHLEMMER  
42113 Wuppertal, DE  
Wildsteig 22 a, 42113 Wuppertal, DE  
DE

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE

7. Dr. Adrian TERSTEEGEN  
42111 Wuppertal, DE  
Rübezahlweg 8, 42111 Wuppertal, DE  
DE

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE

8. Dr. Anja BUCHMÜLLER  
45259 Essen, DE  
Baderweg 72a, 45259 Essen, DE  
DE

 2017-03-01

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE

9. Dr. Christoph GERDES  
51063 Köln, DE  
Düsseldorfer Str. 75, 51063 Köln, DE  
DE

 2017-03-02

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE

10. Dr. Martina SCHÄFER  
13465 Berlin, DE  
Gurnemanzpfad 77, 13465 Berlin, DE  
DE

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE

11. Dr. Henrik TELLER  
18258 Schwaan, DE  
Alte Weide 40a, 18258 Schwaan, DE  
DE

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE

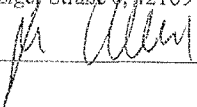
12. Dr. Eloisa JIMENEZ NUNEZ  
42117 Wuppertal, DE  
Hindenburgstr. 74, 42117 Wuppertal, DE  
ES

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE

13. Dr. Hartmut SCHIROK  
40764 Langenfeld, DE  
Pestalozzistr. 39a, 40764 Langenfeld, DE  
DE

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE

14. Dr. Jürgen KLAR  
42109 Wuppertal, DE  
Leipziger Straße 9, 42109 Wuppertal, DE  
DE

 2017-03-10

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE

15. Dr. Mario LOBELL  
42113 Wuppertal, DE  
Am Eigenbach 16, 42113 Wuppertal, DE  
DE



ASSIGNMENT WITH DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)

## ASSIGNMENT

Whereas, I/We, the undersigned inventor(s) hereinafter called assignor(s), have invented certain improvements described in the application identified below; and

Whereas, I) BAYER PHARMA AKTIENGESELLSCHAFT of 1) Müllerstr. 178, 13353 Berlin, DE, (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/We, the above named assignor(s), hereby sell, assign and transfer to the above named assignee, its successors, legal representatives, and assigns, my/our entire right, title and interest, if any, in the invention and the application for the United States of America, including all direct and indirect divisions, continuations, and continuations-in-part thereof, and all original, extended, reissued, reviewed, and reexamined Letters Patent of the United States, and all countries foreign thereto, that may be granted thereon, including rights of priority under the International Convention of Paris (1883) as amended, including the right to claim priority under 35 U.S.C. §119, and I/we request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I/we hereby agree that the assignee may apply for foreign Letters Patent on the invention and I/we will without further consideration, communicate all facts know to me/us and execute without further consideration all papers deemed necessary by the assignee in connection with the United States and foreign applications when called upon to do so by the assignee, its successors, legal representatives, or assigns. I/We further represent and warrant that I/We have the full right to convey the interest assigned by this assignment, and that I/We have not granted any rights inconsistent with the rights granted herein. I/We further acknowledge an obligation of assignment of this invention to assignee at the time the invention was made.

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)

## DECLARATION

As a below named inventor, I hereby declare that this assignment with declaration is directed to:

☐ The attached application, OR ☒ United States Application or PCT International Application  
Number PCT/EP2015/071646 filed on 2015-09-22 (Confirmation No. \_\_\_\_\_).

## PRE-AIA

My residence, mailing address, and citizenship are as stated below next to my name.

I believe the inventor(s) named below to be the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention titled:

## SUBSTITUTED OXOPYRIDINE DERIVATIVES

I hereby state that I have reviewed and understand the contents of the above identified application, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

## POST-AIA

The above identified application was made or was authorized to be made by me.

I believe I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this assignment with declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both.

## Authorization To Permit Access To Application by Participating Office

☐ If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the above-identified application is filed access to the above-identified patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, or other intellectual property office in which a foreign application claiming priority to the above-identified application is filed to have access to the application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the application-as-filed with respect to: 1) the above-identified patent application-as-filed, 2) any foreign application to which the above-identified application claims priority under 35 USC 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the above-identified patent application, and 3) any U.S. application-as-filed from which benefit is sought in the above-identified patent application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing the Authorization to Permit Access to Application by Participating Office.

FULL NAME OF INVENTOR: 1. Dr. Susanne RÖHRIG  
RESIDENCE: 40724 Hilden, DE  
POST OFFICE ADDRESS: Dietrich-Bonhoeffer-Straße 66, 40724 Hilden, DE  
CITIZENSHIP: DE  
SIGNATURE / DATE \_\_\_\_\_

FULL NAME OF INVENTOR: 2. Prof. Dr. Alexander HILLISCH  
RESIDENCE: 42651 Solingen, DE  
POST OFFICE ADDRESS: Stöckerberg 3, 42651 Solingen, DE  
CITIZENSHIP: AT  
SIGNATURE / DATE \_\_\_\_\_

FULL NAME OF INVENTOR: 3. Julia STRAßBURGER  
RESIDENCE: 42115 Wuppertal, DE  
POST OFFICE ADDRESS: Mozartstr. 7, 42115 Wuppertal, DE  
CITIZENSHIP: DE  
SIGNATURE / DATE \_\_\_\_\_

FULL NAME OF INVENTOR: 4. Stefan HEITMEIER  
RESIDENCE: 42489 Wülfrath, DE  
POST OFFICE ADDRESS: Am Wasserturm 56, 42489 Wülfrath, DE  
CITIZENSHIP: DE  
SIGNATURE / DATE \_\_\_\_\_

FULL NAME OF INVENTOR: 5. Dr. Martina Victoria SCHMIDT  
RESIDENCE: 51063 Köln, DE  
POST OFFICE ADDRESS: Düsseldorfer Str. 75, 51063 Köln, DE  
CITIZENSHIP: DE  
SIGNATURE / DATE \_\_\_\_\_

FULL NAME OF INVENTOR: 6. Dr. Karl-Heinz SCHLEMMER  
RESIDENCE: 42113 Wuppertal, DE  
POST OFFICE ADDRESS: Wildsteig 22 a, 42113 Wuppertal, DE  
CITIZENSHIP: DE  
SIGNATURE / DATE *KH Schlemmer* 01-03-2017

FULL NAME OF INVENTOR: 7. Dr. Adrian TERSTEEGEN  
RESIDENCE: 42111 Wuppertal, DE  
POST OFFICE ADDRESS: Rübzahlweg 8, 42111 Wuppertal, DE  
CITIZENSHIP: DE  
SIGNATURE / DATE \_\_\_\_\_

FULL NAME OF INVENTOR: 8. Dr. Anja BUCHMÜLLER  
RESIDENCE: 45259 Essen, DE  
POST OFFICE ADDRESS: Baderweg 72a, 45259 Essen, DE  
CITIZENSHIP: DE  
SIGNATURE / DATE \_\_\_\_\_

FULL NAME OF INVENTOR: 9. Dr. Christoph GERDES  
RESIDENCE: 51063 Köln, DE  
POST OFFICE ADDRESS: Düsseldorfer Str. 75, 51063 Köln, DE  
CITIZENSHIP: DE  
SIGNATURE / DATE \_\_\_\_\_

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE

10. Dr. Martina SCHÄFER  
13465 Berlin, DE  
Gurnemannpfad 77, 13465 Berlin, DE  
DE

*[Signature]* 28.02.17

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE

11. Dr. Henrik TELLER  
18258 Schwaan, DE  
Alte Weide 40a, 18258 Schwaan, DE  
DE

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE

12. Dr. Eloisa JIMENEZ NUNEZ  
42117 Wuppertal, DE  
Hindenburgstr. 74, 42117 Wuppertal, DE  
ES

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE

13. Dr. Hartmut SCHIROK  
40764 Langenfeld, DE  
Pestalozzistr. 39a, 40764 Langenfeld, DE  
DE

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE

14. Dr. Jürgen KLAR  
42109 Wuppertal, DE  
Leipziger Straße 6, 42109 Wuppertal, DE  
DE

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE

15. Dr. Mario LOBELL  
42113 Wuppertal, DE  
Am Eigenbach 16, 42113 Wuppertal, DE  
DE

ASSIGNMENT WITH DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)**ASSIGNMENT**

Whereas, I/We, the undersigned inventor(s) hereinafter called assignor(s), have invented certain improvements described in the application identified below; and

Whereas, I) BAYER PHARMA AKTIENGESELLSCHAFT of I) Müllerstr. 178, 13353 Berlin, DE, (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/We, the above named assignor(s), hereby sell, assign and transfer to the above named assignee, its successors, legal representatives, and assigns, my/our entire right, title and interest, if any, in the invention and the application for the United States of America, including all direct and indirect divisions, continuations, and continuations-in-part thereof, and all original, extended, reissued, reviewed, and reexamined Letters Patent of the United States, and all countries foreign thereto, that may be granted thereon, including rights of priority under the International Convention of Paris (1883) as amended, including the right to claim priority under 35 U.S.C. §119, and I/we request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I/we hereby agree that the assignee may apply for foreign Letters Patent on the invention and I/we will without further consideration, communicate all facts know to me/us and execute without further consideration all papers deemed necessary by the assignee in connection with the United States and foreign applications when called upon to do so by the assignee, its successors, legal representatives, or assigns. I/We further represent and warrant that I/We have the full right to convey the interest assigned by this assignment, and that I/We have not granted any rights inconsistent with the rights granted herein. I/We further acknowledge an obligation of assignment of this invention to assignee at the time the invention was made.

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)

**DECLARATION**

As a below named inventor, I hereby declare that this assignment with declaration is directed to:

☐ The attached application, OR ☒ United States Application or PCT International Application  
Number PCT/EP2015/071646 filed on 2015-09-22 (Confirmation No. \_\_\_\_\_).

**PRE-AIA**

My residence, mailing address, and citizenship are as stated below next to my name.

I believe the inventor(s) named below to be the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention titled:

SUBSTITUTED OXOPYRIDINE DERIVATIVES

I hereby state that I have reviewed and understand the contents of the above identified application, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

**POST-AIA**

The above identified application was made or was authorized to be made by me.

I believe I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this assignment with declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both.

**Authorization To Permit Access To Application by Participating Office**

☐ If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the above-identified application is filed access to the above-identified patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, or other intellectual property office in which a foreign application claiming priority to the above-identified application is filed to have access to the application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the application-as-filed with respect to: 1) the above-identified patent application-as-filed, 2) any foreign application to which the above-identified application claims priority under 35 USC 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the above-identified patent application, and 3) any U.S. application-as-filed from which benefit is sought in the above-identified patent application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing the Authorization to Permit Access to Application by Participating Office.

FULL NAME OF INVENTOR: 1. Dr. Susanne RÖHRIG  
RESIDENCE: 40724 Hilden, DE  
POST OFFICE ADDRESS: Dietrich-Bonhoeffer-Straße 66, 40724 Hilden, DE  
CITIZENSHIP: DE  
SIGNATURE / DATE \_\_\_\_\_


FULL NAME OF INVENTOR: 2. Prof. Dr. Alexander HILLISCH  
RESIDENCE: 42651 Solingen, DE  
POST OFFICE ADDRESS: Stöckerberg 3, 42651 Solingen, DE  
CITIZENSHIP: AT  
SIGNATURE / DATE \_\_\_\_\_

FULL NAME OF INVENTOR: 3. Julia STRABBURGER  
RESIDENCE: 42115 Wuppertal, DE  
POST OFFICE ADDRESS: Mozartstr. 7, 42115 Wuppertal, DE  
CITIZENSHIP: DE  
SIGNATURE / DATE \_\_\_\_\_

FULL NAME OF INVENTOR: 4. Stefan HEITMEIER  
RESIDENCE: 42489 Wülfrath, DE  
POST OFFICE ADDRESS: Am Wasserturm 56, 42489 Wülfrath, DE  
CITIZENSHIP: DE  
SIGNATURE / DATE \_\_\_\_\_

FULL NAME OF INVENTOR: 5. Dr. Martina Victoria SCHMIDT  
RESIDENCE: 51063 Köln, DE  
POST OFFICE ADDRESS: Düsseldorfer Str. 75, 51063 Köln, DE  
CITIZENSHIP: DE  
SIGNATURE / DATE \_\_\_\_\_

FULL NAME OF INVENTOR: 6. Dr. Karl-Heinz SCHLEMMER  
RESIDENCE: 42113 Wuppertal, DE  
POST OFFICE ADDRESS: Wildsteig 22 a, 42113 Wuppertal, DE  
CITIZENSHIP: DE  
SIGNATURE / DATE \_\_\_\_\_

FULL NAME OF INVENTOR: 7. Dr. Adrian TERSTEEGEN  
RESIDENCE: 42111 Wuppertal, DE  
POST OFFICE ADDRESS: Rütbezahlweg 8, 42111 Wuppertal, DE  
CITIZENSHIP: DE  
SIGNATURE / DATE  13.78

FULL NAME OF INVENTOR: 8. Dr. Anja BUCHMÜLLER  
RESIDENCE: 45259 Essen, DE  
POST OFFICE ADDRESS: Baderweg 72a, 45259 Essen, DE  
CITIZENSHIP: DE  
SIGNATURE / DATE \_\_\_\_\_

FULL NAME OF INVENTOR: 9. Dr. Christoph GERDES  
RESIDENCE: 51063 Köln, DE  
POST OFFICE ADDRESS: Düsseldorfer Str. 75, 51063 Köln, DE  
CITIZENSHIP: DE  
SIGNATURE / DATE \_\_\_\_\_

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE

10. Dr. Martina SCHÄFER  
13465 Berlin, DE  
Gurnemanzpfad 77, 13465 Berlin, DE  
DE

---

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE

11. Dr. Henrik TELLER  
18258 Schwaan, DE  
Alte Weide 40a, 18258 Schwaan, DE  
DE

---

*H. Teller* 05-03-2017

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE

12. Dr. Eloisa JIMENEZ NUNEZ  
42117 Wuppertal, DE  
Hindenburgstr. 74, 42117 Wuppertal, DE  
ES

---

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE

13. Dr. Hartmut SCHIROK  
40764 Langenfeld, DE  
Pestalozzistr. 39a, 40764 Langenfeld, DE  
DE

---

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE

14. Dr. Jürgen KLAR  
42109 Wuppertal, DE  
Leipziger Straße 6, 42109 Wuppertal, DE  
DE

---

FULL NAME OF INVENTOR:  
RESIDENCE:  
POST OFFICE ADDRESS:  
CITIZENSHIP:  
SIGNATURE / DATE

15. Dr. Mario LOBELL  
42113 Wuppertal, DE  
Am Eigenbach 16, 42113 Wuppertal, DE  
DE

---