06/13/2017 504411278

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4457978

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SUSANNE RÖHRIG	01/04/2017
ELOISA JIMENEZ-NUNEZ	01/05/2017
KARL-HEINZ SCHLEMMER	01/03/2017
ADRIAN TERSTEEGEN	05/12/2017
HENRIK TELLER	01/06/2017
ALEXANDER HILLISCH	01/16/2017
STEFAN HEITMEIER	05/23/2017
MARTINA VICTORIA SCHMIDT	05/29/2017
JENS ACKERSTAFF	01/05/2017
JAN STAMPFUB	01/03/2017

RECEIVING PARTY DATA

Name:	BAYER PHARMA AKTIENGESELLSCHAFT
Street Address:	MÜLLERSTR. 178
City:	BERLIN
State/Country:	GERMANY
Postal Code:	13353

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15513977

CORRESPONDENCE DATA

Fax Number: (703)816-4100

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: 703-816-4000 Email: ap@nixonvan.com

NIXON & VANDERHYE PC Correspondent Name: Address Line 1: 901 NORTH GLEBE ROAD

Address Line 2: **SUITE 1100**

Address Line 4: ARLINGTON, VIRGINIA 22203

ATTORNEY DOCKET NUMBER: GRT/6487-0128

NAME OF SUBMITTER:	GARY R. TANIGAWA
SIGNATURE:	/Gary R. Tanigawa/
DATE SIGNED:	06/13/2017
	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 18	
source=Declaration-Assignment#pag	ge1.tif
source=Declaration-Assignment#pag	ge2.tif
source=Declaration-Assignment#pag	ge3.tif
D 1 11 A 1	4.05

source=Declaration-Assignment#page1.tif
source=Declaration-Assignment#page3.tif
source=Declaration-Assignment#page4.tif
source=Declaration-Assignment#page5.tif
source=Declaration-Assignment#page6.tif
source=Declaration-Assignment#page7.tif
source=Declaration-Assignment#page8.tif
source=Declaration-Assignment#page9.tif
source=Declaration-Assignment#page10.tif
source=Declaration-Assignment#page11.tif
source=Declaration-Assignment#page12.tif
source=Declaration-Assignment#page13.tif
source=Declaration-Assignment#page14.tif
source=Declaration-Assignment#page15.tif
source=Declaration-Assignment#page16.tif
source=Declaration-Assignment#page17.tif
source=Declaration-Assignment#page18.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)

DECLA	RAT	TON
	Asa	helo

s a bel	ow named inventor, I hereby	/ decla	ire tha	t this assignment with declaration is directed to:
	The attached application,	OR	\boxtimes	United States Application or PCT International Application Number PCT/EP2015/071660 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.



BHC141048 PCT-US [Page 1]

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

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

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

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

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

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

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

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

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 1Ch 2017-01-04 2. Dr. Eloisa JIMENEZ-NUNEZ 42117 Wuppertal, DE Hindenburgstr. 74, 42117 Wuppertal, DE 2017/01/05 3. Dr. Karl-Heinz SCHLEMMER 42113 Wuppertal, DE Wildsteig 22 a, 42113 Wuppertal, DE 4. Dr. Adrian TERSTEEGEN 42111 Wuppertal, DE Rübezahlweg 8, 42111 Wuppertal, DE 5. Dr. Henrik TELLER 18258 Schwaan, DE Alte Weide 40a, 18258 Schwaan, DE 6. Prof. Dr. Alexander HILLISCH 42651 Solingen, DE Stöckerberg 3, 42651 Solingen, DE 7. Stefan HEITMEIER 42489 Wülfrath, DE Am Wasserturm 56, 42489 Wülfrath, DE

9. Dr. Jens ACKERSTAFF 40225 Düsseldorf, DE

Düsseldorfer Str. 75, 51063 Köln, DE

8. Dr. Martina Victoria SCHMIDT

51063 Köln, DE

40225 Düsseldorf, DE Christophstrasse 27, 40225 Düsseldorf, DE DE

BHC141048 PCT-US

[Page 2]

10. Dr. Jan STAMPFUß 40470 Düsseldorf, DB Zur Weide 83, 40470 Düsseldorf, 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, 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	v named inventor, I hereby	declar	re that	t this assignment with declaration is directed to:
. 🗆	The attached application,	OR	\boxtimes	United States Application or PCT International Application Number PCT/EP2015/071660 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.



[Page 1]

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

FULL NAME OF INVENTOR:
RESIDENCE:

POST OFFICE ADDRESS:

CITIZENSHIP: SIGNATURE / DATE

FULL NAME OF INVENTOR: RESIDENCE: POST OFFICE ADDRESS: CITIZENSHIP:

SIGNATURE / DATE

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

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

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

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

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

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

BHC141048 PCT-US

eneral .	Dr. Susanne RÖHRIG 40724 Hilden, DE Dietrich-Bonhoeffer-Straße 66, 40724 Hilden, DE DE
2.	Dr. Eloisa JIMENEZ-NUNEZ 42117 Wuppertal, DE Hindenburgstr. 74, 42117 Wuppertal, DE ES
3.	Dr. Karl-Heinz SCHLEMMER 42113 Wuppertal, DE Wildsteig 22 a, 4211 13 Wuppertal, DE DE 4
	Dr. Adrian TERSTEEGEN 42111 Wuppertal, DE Rübezahlweg 8, 42111 Wuppertal, DE DE
	Dr. Henrik TELLER 18258 Schwaan, DE Alte Weide 40a, 18258 Schwaan, DE DE
2	Prof. Dr. Alexander HILLISCH 42651 Solingen, DE Stöckerberg 3, 42651 Solingen, DE AT
4	Stefan HEITMEIER 12489 Wülfrath, DE Am Wasserturm 56, 42489 Wülfrath, DE DE

[Page 2]

DE

8. Dr. Martina Victoria SCHMIDT

Düsseldorfer Str. 75, 51063 Köln, DE

Christophstrasse 27, 40225 Düsseldorf, DE

51063 Köln, DE

Dr. Jens ACKERSTAFF 40225 Düsseldorf, DE

10. Dr. Jan STAMPFUß 40470 Düsseldorf, DE Zur Weide 83, 40470 Düsseldorf, DE

DE _

03 Jan. 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) Millerstr. 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)

nE	M	AR	ÁF	rT/	\cap	N

As a be	ow 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/EP2015/071660 filed on 2015-09-22 (Confirmation No).
P	RE-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(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: 1. Dr. Susanne RÖHRIG 40724 Hilden, DE RESIDENCE: POST OFFICE ADDRESS: Dietrich-Bonhoeffer-Straße 66, 40724 Hilden, DE CITIZENSHIP: SIGNATURE / DATE FULL NAME OF INVENTOR: 2. Dr. Eloisa JIMENEZ-NUNEZ 42117 Wuppertal, DE RESIDENCE: Hindenburgstr. 74, 42117 Wuppertal, DE POST OFFICE ADDRESS: CITIZENSHIP: SIGNATURE / DATE FULL NAME OF INVENTOR: 3. Dr. Karl-Heinz SCHLEMMER 42113 Wuppertal, DE RESIDENCE: POST OFFICE ADDRESS: Wildsteig 22 a, 42113 Wuppertal, DE CITIZENSHIP: DE SIGNATURE / DATE 4. Dr. Adrian TERSTEEGEN FULL NAME OF INVENTOR: 42111 Wuppertal, DE RESIDENCE: Rübezahlweg@, 42111 Wuppertal, DE POST OFFICE ADDRESS: CITIZENSHIP: 12-05-2017 SIGNATURE / DATE 5. Dr. Henrik TELLER FULL NAME OF INVENTOR: RESIDENCE: 18258 Schwaan, DE Alte Weide 40a, 18258 Schwaan, DE POST OFFICE ADDRESS: DE CITIZENSHIP: SIGNATURE / DATE 6. Prof. Dr. Alexander HILLISCH FULL NAME OF INVENTOR: 42651 Solingen, DE RESIDENCE: Stöckerberg 3, 42651 Solingen, DE POST OFFICE ADDRESS: CITIZENSHIP: ATSIGNATURE / DATE 7. Stefan HEITMEIER FULL NAME OF INVENTOR: 42489 Wülfrath, DE RESIDENCE: Am Wasserturm 56, 42489 Wülfrath, DE POST OFFICE ADDRESS: CITIZENSHIP: SIGNATURE / DATE FULL NAME OF INVENTOR: 8. Dr. Martina Victoria SCHMIDT 51063 Köln, DE RESIDENCE: Düsseldorfer Str. 75, 51063 Köln, DE POST OFFICE ADDRESS: CITIZENSHIP: SIGNATURE / DATE FULL NAME OF INVENTOR: 9. Dr. Jens ACKERSTAFF RESIDENCE: 40225 Düsseldorf, DE

1

DE

Christophstrasse 27, 40225 Düsseldorf, DE

CITIZENSHIP: SIGNATURE / DATE

POST OFFICE ADDRESS:

10. Dr. Jan STAMPFUß 40470 Düsseldorf, DE Zur Weide 83, 40470 Düsseldorf, DE

BHC141048 PCT-US

[Page 3]

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)

DECL	AR.	ATIO	١

As a below n	amed inventor, I hereby	declar	e that	this assignment with declaration is directed to:
Th	e attached application,	OR		United States Application or PCT International Application Number PCT/EP2015/071660 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.

B

[Page 1]

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

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

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

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

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

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

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

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

FULL NAME OF INVENTOR: RESIDENCE: POST OFFICE ADDRESS: CITIZENSHIP: SIGNATURE / DATE Dr. Susanne RÖHRIG
40724 Hilden, DE
Dietrich-Bonhoeffer-Straße 66, 40724 Hilden, DE
DE
 Dr. Eloisa JIMENEZ-NUNEZ
42117 Wuppertal, DE
Hindenburgstr. 74, 42117 Wuppertal, DE
ES
 Dr. Karl-Heinz SCHLEMMER
42113 Wuppertal, DE
Wildsteig 22 a, 42113 Wuppertal, DE
DE
 Dr. Adrian TERSTEEGEN
42111 Wuppertal, DE
Rübezahlweg 8, 42111 Wuppertal, DE
DE

18258 Schwaan, DE
Alte Weide 40a, 18258 Schwaan, DE
DE
Henrik Tello 6.01.17

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

5. Dr. Henrik TELLER

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

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

9. Dr. Jens ACKERSTAFF 40225 Düsseldorf, DE Christophstrasse 27, 40225 Düsseldorf, DE DE

[Page 2]

PATENT REEL: 042695 FRAME: 0834

BHC141048 PCT-US

10. Dr. Jan STAMPFUß 40470 Düsseldorf, DE Zur Weide 83, 40470 Düsseldorf, DE DE

BHC141048 PCT-US

[Page 3]

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 belo

s a belo	ow named inventor, I hereby	/ decla	ire tha	t this assignment with declaration is directed to:
	The attached application,	OR		United States Application or PCT International Application Number PCT/EP2015/071660 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-ATA

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.



BHC141048 PCT-US

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

FULL NAME OF INVENTOR:
RESIDENCE:

RESIDENCE: POST OFFICE ADDRESS: CITIZENSHIP: SIGNATURE / DATE

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

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

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

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

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

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

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

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

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

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

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

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

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

2017-05-28

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

DE M. C. W

5013-05-59

9. Dr. Jens ACKERSTAFF 40225 Düsseldorf, DE Christophstrasse 27, 40225 Düsseldorf, DE DE

BHC141048 PCT-US

[Page 2]

10. Dr. Jan STAMPFUß 40470 Düsseldorf, DE Zur Weide 83, 40470 Düsseldorf, DE

DE.

03 Jan. 2017

[Page 3]

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)

DECL	ARA	TION

AS	a bei	ow named inventor, I hereby	decla	re tha	t this assignment with declaration is directed to:
•		The attached application,	OR	\boxtimes	United States Application or PCT International Application Number PCT/EP2015/071660 filed on 2015-09-22 (Confirmation No).
	PR	E-AIA			
		My residence, mailing addr	ess, aı	nd citi	zenship are as stated below next to my name.
		I believe the inventor(s) nar which a patent is sought on	med bo	elow t	o be the original and first inventor(s) of the subject matter which is claimed and for on titled:

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.

SUBSTITUTED OXOPYRIDINE DERIVATIVES

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.



BHC141048 PCT-US

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. Dr. Eloisa JIMENEZ-NUNEZ 42117 Wuppertal, DE Hindenburgstr. 74, 42117 Wuppertal, DE ES
FULL NAME OF INVENTOR; RESIDENCE; POST OFFICE ADDRESS; CITIZENSHIP; SIGNATURE / DATE	3. 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	4. Dr. Adrian TERSTEEGEN 42111 Wuppertal, DE Rübezahlweg 8, 42111 Wuppertal, DE DE
FULL NAME OF INVENTOR: RESIDENCE: POST OFFICE ADDRESS: CITIZENSHIP: SIGNATURE / DATE	5. Dr. Henrik TELLER 18258 Schwaan, DE Alte Weide 40a, 18258 Schwaan, DE DE
FULL NAME OF INVENTOR: RESIDENCE: POST OFFICE ADDRESS: CITIZENSHIP: SIGNATURE / DATE	6. Prof. Dr. Alexander HILLISCH 42651 Solingen, DE Stöckerberg 3, 42651 Solingen, DE AT
FULL NAME OF INVENTOR: RESIDENCE: POST OFFICE ADDRESS: CITIZENSHIP: SIGNATURE / DATE	7. Stefan HEITMEIER 42489 Wülfrath, DE Am Wasserturm 56, 42489 Wülfrath, DE DE
FULL NAME OF INVENTOR: RESIDENCE: POST OFFICE ADDRESS: CITIZENSHIP: SIGNATURE / DATE	8. Dr. Martina Victoria SCHMIDT 51063 Köln, DE Düsseldorfer Str. 75, 51063 Köln, DE DE
FULL NAME OF INVENTOR: RESIDENCE:	9. Dr. Jens ACKERSTAFF 40225 Düsseldorf, DE

POST OFFICE ADDRESS:

CITIZENSHIP: SIGNATURE / DATE

BHC141048 PCT-US

PATENT

Christophstrasse 27, 40225 Düsseldorf, DE

[Page 2]

10. Dr. Jan STAMPFUß 40470 Düsseldorf, DE Zur Weide 83, 40470 Düsseldorf, DE

BHC141048 PCT-US

RECORDED: 06/13/2017

[Page 3]