

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT3523106

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
PIETER SMID	08/01/2015
WOUTER I. IWEMA BAKKER	07/13/2015
HEIN K.A.C. COOLEN	07/15/2015
LEONARDUS A.J.M. SLIEDREGT	07/16/2015
MARIA J.P. VAN DONGEN	08/01/2015
JACOBUS A.J. DEN HARTOG	07/21/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ABBVIE B.V.
<b>Street Address:</b>	WEGALAAN 9
<b>City:</b>	HOOFDDORP
<b>State/Country:</b>	NETHERLANDS
<b>Postal Code:</b>	2132 JD
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	14743234
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(312)222-0818
<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>	(312) 222-0800
<b>Email:</b>	chiipdocket@michaelbest.com
<b>Correspondent Name:</b>	LISA V. MUELLER
<b>Address Line 1:</b>	180 N. STETSON AVE., SUITE 2000
<b>Address Line 4:</b>	CHICAGO, ILLINOIS 60601
<b>ATTORNEY DOCKET NUMBER:</b>	030270-1153-US02
<b>NAME OF SUBMITTER:</b>	LISA V. MUELLER
<b>SIGNATURE:</b>	/Lisa V. Mueller/
<b>DATE SIGNED:</b>	09/11/2015
<b>Total Attachments: 12</b>	

source=2015\_09\_11\_SPW1008USC1-US-14-743234-ASSIGNMENT-ABBVIE-BV#page1.tif  
source=2015\_09\_11\_SPW1008USC1-US-14-743234-ASSIGNMENT-ABBVIE-BV#page2.tif  
source=2015\_09\_11\_SPW1008USC1-US-14-743234-ASSIGNMENT-ABBVIE-BV#page3.tif  
source=2015\_09\_11\_SPW1008USC1-US-14-743234-ASSIGNMENT-ABBVIE-BV#page4.tif  
source=2015\_09\_11\_SPW1008USC1-US-14-743234-ASSIGNMENT-ABBVIE-BV#page5.tif  
source=2015\_09\_11\_SPW1008USC1-US-14-743234-ASSIGNMENT-ABBVIE-BV#page6.tif  
source=2015\_09\_11\_SPW1008USC1-US-14-743234-ASSIGNMENT-ABBVIE-BV#page7.tif  
source=2015\_09\_11\_SPW1008USC1-US-14-743234-ASSIGNMENT-ABBVIE-BV#page8.tif  
source=2015\_09\_11\_SPW1008USC1-US-14-743234-ASSIGNMENT-ABBVIE-BV#page9.tif  
source=2015\_09\_11\_SPW1008USC1-US-14-743234-ASSIGNMENT-ABBVIE-BV#page10.tif  
source=2015\_09\_11\_SPW1008USC1-US-14-743234-ASSIGNMENT-ABBVIE-BV#page11.tif  
source=2015\_09\_11\_SPW1008USC1-US-14-743234-ASSIGNMENT-ABBVIE-BV#page12.tif

ASSIGNMENT

WHEREAS, Pieter Smid, Wouter L. Iwema Bakker, Hein K.A.C. Coolen, Leonardus A.J.M. Sliedregt, Maria J.P. van Dongen, and Jacobus A.J. den Hartog, hereinafter called the "Assignors" have made the invention described in the United States patent application entitled "FUSED HETEROCYCLIC DERIVATIVES AS SIP MODULATORS" that has a U.S. Patent Application Number of 14/743,234, filed on June 18, 2015.

WHEREAS, AbbVie B.V., a corporation, having a place of business at Wegalaan 9, 2132 JD, Hoofddorp, The Netherlands, hereinafter called the "Assignee", desires to acquire the entire right, title and interest in and to the invention and to the patent application identified above, and all patents, foreign and domestic, which may be obtained for said invention, as set forth below.

NOW THEREFORE, in exchange for valuable and legally sufficient consideration, the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer to the Assignee, the entire right, title and interest for the United States and elsewhere in and to the invention and the patent application identified above, and any patents that may issue for said invention in the United States and elsewhere; together with the entire right, title and interest in and to said invention and all patent applications, patents, utility models and designs therefore in all countries foreign to the United States, including the full right to claim for any such application all benefits and priority rights under any applicable convention; together with the entire right, title and interest in and to all continuations, divisions, renewals and extensions of any of the patent applications, patents, utility models and designs defined above; to have and to hold for sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for all such patents.

The Assignors hereby covenant and agree, for both the Assignors and Assignors' legal representative, that Assignors have the full right to convey the interest assigned by this Assignment; and that the Assignors will assist the Assignee in the prosecution of the patent applications identified above, in the making and prosecution of any other applications that the Assignee may elect to make covering the invention identified above, in vesting in the Assignee like exclusive title in and to all such other patent applications and patents, in the prosecution of any interference which may arise involving said invention, or any such patent application or patent, and in assisting Assignee in enforcement of any rights arising out of the Assignment; and that the Assignors will execute and deliver to the Assignee any and all additional papers which may be requested by the Assignee to carry out the terms of this Agreement.

The Commissioner of Patents and Trademarks is hereby authorized and requested to issue patents to the Assignee in accordance with the terms of this Assignment.

IN TESTIMONY WHEREOF, the Assignor(s) has executed this agreement.

DATED: x

1-8 '2015

x

Pieter Smid

DATED: x

x

Wouter I. Iwema Bakker

DATED: x

x

Hein K.A.C. Coolen

DATED: x

x

Leonardus A.J.M. Sliedregt

DATED: x

x

Maria J.P. van Dongen

DATED: x

x

Jacobus A.J. den Hartog

ASSIGNMENT

WHEREAS, Pieter Smid, Wouter I. Iwema Bakker, Hein K.A.C. Coolen, Leonardus A.J.M. Sliedregt, Maria J.P. van Dongen, and Jacobus A.J. den Hartog, hereinafter called the "Assignors" have made the invention described in the United States patent application entitled "FUSED HETEROCYCLIC DERIVATIVES AS SIP MODULATORS" that has a U.S. Patent Application Number of 14/743,234, filed on June 18, 2015.

WHEREAS, AbbVie B.V., a corporation, having a place of business at Wegalaan 9, 2132 JD, Hoofddorp, The Netherlands, hereinafter called the "Assignee", desires to acquire the entire right, title and interest in and to the invention and to the patent application identified above, and all patents, foreign and domestic, which may be obtained for said invention, as set forth below.

NOW THEREFORE, in exchange for valuable and legally sufficient consideration, the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer to the Assignee, the entire right, title and interest for the United States and elsewhere in and to the invention and the patent application identified above, and any patents that may issue for said invention in the United States and elsewhere; together with the entire right, title and interest in and to said invention and all patent applications, patents, utility models and designs therefore in all countries foreign to the United States, including the full right to claim for any such application all benefits and priority rights under any applicable convention; together with the entire right, title and interest in and to all continuations, divisions, renewals and extensions of any of the patent applications, patents, utility models and designs defined above; to have and to hold for sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for all such patents.

The Assignors hereby covenant and agree, for both the Assignors and Assignors' legal representative, that Assignors have the full right to convey the interest assigned by this Assignment; and that the Assignors will assist the Assignee in the prosecution of the patent applications identified above, in the making and prosecution of any other applications that the Assignee may elect to make covering the invention identified above, in vesting in the Assignee like exclusive title in and to all such other patent applications and patents, in the prosecution of any interference which may arise involving said invention, or any such patent application or patent, and in assisting Assignee in enforcement of any rights arising out of the Assignment; and that the Assignors will execute and deliver to the Assignee any and all additional papers which may be requested by the Assignee to carry out the terms of this Agreement.

The Commissioner of Patents and Trademarks is hereby authorized and requested to issue patents to the Assignee in accordance with the terms of this Assignment.

IN TESTIMONY WHEREOF, the Assignor(s) has executed this agreement.

DATED: x \_\_\_\_\_

x \_\_\_\_\_  
Pieter Smid

DATED: x July 13, 2015

x   
Wouter I. Iwema Bakker

DATED: x \_\_\_\_\_

x \_\_\_\_\_  
Hein K.A.C. Coolen

DATED: x \_\_\_\_\_

x \_\_\_\_\_  
Leonardus A.J.M. Sliedregt

DATED: x \_\_\_\_\_

x \_\_\_\_\_  
Maria J.P. van Dongen

DATED: x \_\_\_\_\_

x \_\_\_\_\_  
Jacobus A.J. den Hartog

ASSIGNMENT

WHEREAS, Pieter Smid, Wouter I. Iwema Bakker, Hein K.A.C. Coolen, Leonardus A.J.M. Sliedregt, Maria J.P. van Dongen, and Jacobus A.J. den Hartog, hereinafter called the "Assignors" have made the invention described in the United States patent application entitled "FUSED HETEROCYCLIC DERIVATIVES AS SIP MODULATORS" that has a U.S. Patent Application Number of 14/743,234, filed on June 18, 2015.

WHEREAS, AbbVie B.V., a corporation, having a place of business at Wegalaan 9, 2132 JD, Hoofddorp, The Netherlands, hereinafter called the "Assignee", desires to acquire the entire right, title and interest in and to the invention and to the patent application identified above, and all patents, foreign and domestic, which may be obtained for said invention, as set forth below.

NOW THEREFORE, in exchange for valuable and legally sufficient consideration, the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer to the Assignee, the entire right, title and interest for the United States and elsewhere in and to the invention and the patent application identified above, and any patents that may issue for said invention in the United States and elsewhere; together with the entire right, title and interest in and to said invention and all patent applications, patents, utility models and designs therefore in all countries foreign to the United States, including the full right to claim for any such application all benefits and priority rights under any applicable convention; together with the entire right, title and interest in and to all continuations, divisions, renewals and extensions of any of the patent applications, patents, utility models and designs defined above; to have and to hold for sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for all such patents.

The Assignors hereby covenant and agree, for both the Assignors and Assignors' legal representative, that Assignors have the full right to convey the interest assigned by this Assignment; and that the Assignors will assist the Assignee in the prosecution of the patent applications identified above, in the making and prosecution of any other applications that the Assignee may elect to make covering the invention identified above, in vesting in the Assignee like exclusive title in and to all such other patent applications and patents, in the prosecution of any interference which may arise involving said invention, or any such patent application or patent, and in assisting Assignee in enforcement of any rights arising out of the Assignment; and that the Assignors will execute and deliver to the Assignee any and all additional papers which may be requested by the Assignee to carry out the terms of this Agreement.

The Commissioner of Patents and Trademarks is hereby authorized and requested to issue patents to the Assignee in accordance with the terms of this Assignment.

IN TESTIMONY WHEREOF, the Assignor(s) has executed this agreement.

DATED: x \_\_\_\_\_

x \_\_\_\_\_  
Pieter Smid

DATED: x \_\_\_\_\_

x \_\_\_\_\_  
Wouter I. Iwema Bakker

DATED: x JULY 15, 2015

x \_\_\_\_\_  
Hein K.A.G. Coolen

DATED: x \_\_\_\_\_

x \_\_\_\_\_  
Leonardus A.J.M. Sliedregt

DATED: x \_\_\_\_\_

x \_\_\_\_\_  
Maria J.P. van Dongen

DATED: x \_\_\_\_\_

x \_\_\_\_\_  
Jacobus A.J. den Hartog



ASSIGNMENT

WHEREAS, Pieter Smid, Wouter I. Iwema Bakker, Hein K.A.C. Coolen, Leonardus A.J.M. Sliedregt, Maria J.P. van Dongen, and Jacobus A.J. den Hartog, hereinafter called the "Assignors" have made the invention described in the United States patent application entitled "FUSED HETEROCYCLIC DERIVATIVES AS SIP MODULATORS" that has a U.S. Patent Application Number of 14/743,234, filed on June 18, 2015.

WHEREAS, AbbVie B.V., a corporation, having a place of business at Wegalaan 9, 2132 JD, Hoofddorp, The Netherlands, hereinafter called the "Assignee", desires to acquire the entire right, title and interest in and to the invention and to the patent application identified above, and all patents, foreign and domestic, which may be obtained for said invention, as set forth below.

NOW THEREFORE, in exchange for valuable and legally sufficient consideration, the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer to the Assignee, the entire right, title and interest for the United States and elsewhere in and to the invention and the patent application identified above, and any patents that may issue for said invention in the United States and elsewhere; together with the entire right, title and interest in and to said invention and all patent applications, patents, utility models and designs therefore in all countries foreign to the United States, including the full right to claim for any such application all benefits and priority rights under any applicable convention; together with the entire right, title and interest in and to all continuations, divisions, renewals and extensions of any of the patent applications, patents, utility models and designs defined above; to have and to hold for sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for all such patents.

The Assignors hereby covenant and agree, for both the Assignors and Assignors' legal representative, that Assignors have the full right to convey the interest assigned by this Assignment; and that the Assignors will assist the Assignee in the prosecution of the patent applications identified above, in the making and prosecution of any other applications that the Assignee may elect to make covering the invention identified above, in vesting in the Assignee like exclusive title in and to all such other patent applications and patents, in the prosecution of any interference which may arise involving said invention, or any such patent application or patent, and in assisting Assignee in enforcement of any rights arising out of the Assignment; and that the Assignors will execute and deliver to the Assignee any and all additional papers which may be requested by the Assignee to carry out the terms of this Agreement.

The Commissioner of Patents and Trademarks is hereby authorized and requested to issue patents to the Assignee in accordance with the terms of this Assignment.



IN TESTIMONY WHEREOF, the Assignor(s) has executed this agreement.

DATED: x\_\_\_\_\_

x\_\_\_\_\_  
Pieter Smid

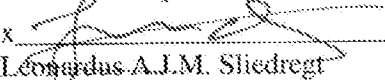
DATED: x\_\_\_\_\_

x\_\_\_\_\_  
Wouter I. Iwema Bakker

DATED: x\_\_\_\_\_

x\_\_\_\_\_  
Hein K.A.C. Coolen

DATED: x 16-jul-2015

x   
Leonardus A.J.M. Sliedregt

DATED: x\_\_\_\_\_

x\_\_\_\_\_  
Maria J.P. van Dongen

DATED: x\_\_\_\_\_

x\_\_\_\_\_  
Jacobus A.J. den Hartog

ASSIGNMENT

WHEREAS, Pieter Smid, Wouter I. Iwema Bakker, Hein K.A.C. Coolen, Leonardus A.J.M. Sliedregt, Maria J.P. van Dongen, and Jacobus A.J. den Hartog, hereinafter called the "Assignors" have made the invention described in the United States patent application entitled "FUSED HETEROCYCLIC DERIVATIVES AS SIP MODULATORS" that has a U.S. Patent Application Number of 14/743,234, filed on June 18, 2015.

WHEREAS, AbbVie B.V., a corporation, having a place of business at Wegalaan 9, 2132 JD, Hoofddorp, The Netherlands, hereinafter called the "Assignee", desires to acquire the entire right, title and interest in and to the invention and to the patent application identified above, and all patents, foreign and domestic, which may be obtained for said invention, as set forth below.

NOW THEREFORE, in exchange for valuable and legally sufficient consideration, the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer to the Assignee, the entire right, title and interest for the United States and elsewhere in and to the invention and the patent application identified above, and any patents that may issue for said invention in the United States and elsewhere; together with the entire right, title and interest in and to said invention and all patent applications, patents, utility models and designs therefore in all countries foreign to the United States, including the full right to claim for any such application all benefits and priority rights under any applicable convention; together with the entire right, title and interest in and to all continuations, divisions, renewals and extensions of any of the patent applications, patents, utility models and designs defined above; to have and to hold for sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for all such patents.

The Assignors hereby covenant and agree, for both the Assignors and Assignors' legal representative, that Assignors have the full right to convey the interest assigned by this Assignment; and that the Assignors will assist the Assignee in the prosecution of the patent applications identified above, in the making and prosecution of any other applications that the Assignee may elect to make covering the invention identified above, in vesting in the Assignee like exclusive title in and to all such other patent applications and patents, in the prosecution of any interference which may arise involving said invention, or any such patent application or patent, and in assisting Assignee in enforcement of any rights arising out of the Assignment; and that the Assignors will execute and deliver to the Assignee any and all additional papers which may be requested by the Assignee to carry out the terms of this Agreement.

The Commissioner of Patents and Trademarks is hereby authorized and requested to issue patents to the Assignee in accordance with the terms of this Assignment.

IN TESTIMONY WHEREOF, the Assignor(s) has executed this agreement.

DATED: x \_\_\_\_\_

x \_\_\_\_\_  
Pieter Smid

DATED: x \_\_\_\_\_

x \_\_\_\_\_  
Wouter I. Iwema Bakker

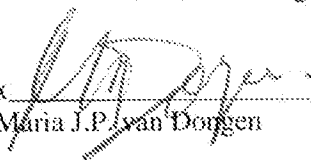
DATED: x \_\_\_\_\_

x \_\_\_\_\_  
Hein K.A.C. Coolen

DATED: x \_\_\_\_\_

x \_\_\_\_\_  
Leonardus A.J.M. Sliedregt

DATED: x 19 01, 2005

x   
Maria J.P. van Dongen

DATED: x \_\_\_\_\_

x \_\_\_\_\_  
Jacobus A.J. den Hartog

ASSIGNMENT

WHEREAS, Pieter Smid, Wouter I. Iwema Bakker, Hein K.A.C. Coolen, Leonardus A.J.M. Slidregt, Maria J.P. van Dongen, and Jacobus A.J. den Hartog, hereinafter called the "Assignors" have made the invention described in the United States patent application entitled "FUSED HETEROCYCLIC DERIVATIVES AS SIP MODULATORS" that has a U.S. Patent Application Number of 14/743,234, filed on June 18, 2015.

WHEREAS, AbbVie B.V., a corporation, having a place of business at Wegalaan 9, 2132 JD, Hoofddorp, The Netherlands, hereinafter called the "Assignee", desires to acquire the entire right, title and interest in and to the invention and to the patent application identified above, and all patents, foreign and domestic, which may be obtained for said invention, as set forth below.

NOW THEREFORE, in exchange for valuable and legally sufficient consideration, the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer to the Assignee, the entire right, title and interest for the United States and elsewhere in and to the invention and the patent application identified above, and any patents that may issue for said invention in the United States and elsewhere; together with the entire right, title and interest in and to said invention and all patent applications, patents, utility models and designs therefore in all countries foreign to the United States, including the full right to claim for any such application all benefits and priority rights under any applicable convention; together with the entire right, title and interest in and to all continuations, divisions, renewals and extensions of any of the patent applications, patents, utility models and designs defined above; to have and to hold for sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for all such patents.

The Assignors hereby covenant and agree, for both the Assignors and Assignors' legal representative, that Assignors have the full right to convey the interest assigned by this Assignment; and that the Assignors will assist the Assignee in the prosecution of the patent applications identified above, in the making and prosecution of any other applications that the Assignee may elect to make covering the invention identified above, in vesting in the Assignee like exclusive title in and to all such other patent applications and patents, in the prosecution of any interference which may arise involving said invention, or any such patent application or patent, and in assisting Assignee in enforcement of any rights arising out of the Assignment; and that the Assignors will execute and deliver to the Assignee any and all additional papers which may be requested by the Assignee to carry out the terms of this Agreement.

The Commissioner of Patents and Trademarks is hereby authorized and requested to issue patents to the Assignee in accordance with the terms of this Assignment.

IN TESTIMONY WHEREOF, the Assignor(s) has executed this agreement.

DATED: x \_\_\_\_\_

x \_\_\_\_\_  
Pieter Smid

DATED: x \_\_\_\_\_

x \_\_\_\_\_  
Wouter I. Iwema Bakker

DATED: x \_\_\_\_\_

x \_\_\_\_\_  
Hein K.A.C. Coolen

DATED: x \_\_\_\_\_

x \_\_\_\_\_  
Leonardus A.J.M. Sliedregt

DATED: x \_\_\_\_\_

x \_\_\_\_\_  
Maria J.P. van Dongen

DATED: x 21-07-2015

x J. den Hartog  
Jacobus A.J. den Hartog