PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5058757

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
GIUSEPPE ALVARO	04/12/2011
STEFANO FONTANA	04/27/2011
AGOSTINO MARASCO	04/12/2011
ANNE DECOR	04/12/2011
DIETER HAMPRECHT	04/12/2011
CHARLES LARGE	04/18/2011

RECEIVING PARTY DATA

Name:	GLAXOSMITHKLINE S.P.A.
Street Address:	VIA ALESSANDRO FLEMING 2
City:	VERONA
State/Country:	ITALY
Postal Code:	37135

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15722623

CORRESPONDENCE DATA

Fax Number:

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.

Email: IPDocketMWE@mwe.com, jstockel@mwe.com

Correspondent Name: MCDERMOTT WILL & EMERY LLP Address Line 1: 500 NORTH CAPITOL STREET, N.W.

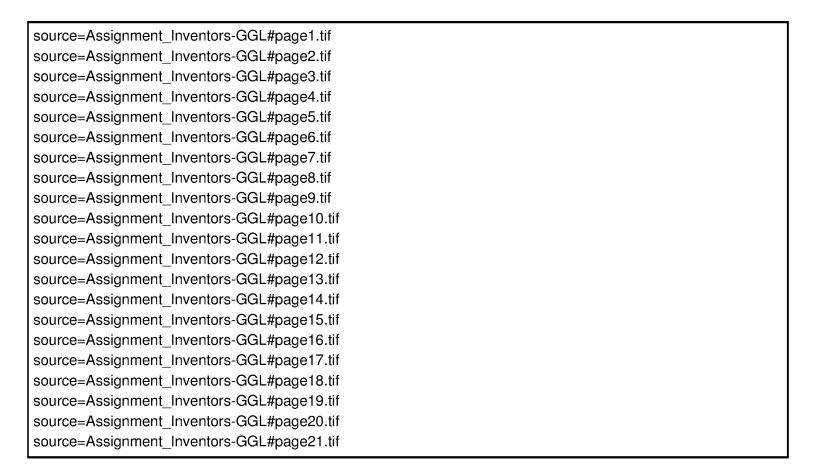
Address Line 2: THE MCDERMOTT BUILDING Address Line 4: WASHINGTON, D.C. 20001

ATTORNEY DOCKET NUMBER:	091473-0035
NAME OF SUBMITTER:	JILLIAN E. STOCKEL
SIGNATURE:	/Jillian E. Stockel/
DATE SIGNED:	07/19/2018

Total Attachments: 21

PATENT REEL: 046593 FRAME: 0363

505012009



ASSIGNMENT

WHEREAS I/WE, Giuseppe ALVARO, Stefano FONTANA, Agostino MARASCO all citizens of Italy, Anne DÉCOR a citizen of France, Dieter HAMPRECHT a citizen of Germany, Charles LARGE a citizen of United Kingdom, all of Verona, Italy (hereinafter called "the inventor(s)") have invented or discovered certain improvements in "Novel Compounds" (hereinafter referred to as "the invention and improvements") for which priority applications 0921760.5 was filed on 11 Dec 2009 and 1012924.5 was filed on 30 July 2010 in the United Kingdom, and for which a PCT international application PCT/EP2010/068946 was filed on 06 Dec 2010, designating the United States of America and naming assignor as inventor, and in the United States only applicant/inventor.

WHEREAS the invention, being made in the course of my employment, belongs to my/our employer at that time, namely GLAXOSMITHKLINE S.P.A. a company incorporated in Italy whose registered address is Via Alessandro Fleming 2, 37135 Verona, Italy, and

WHEREAS GLAXOSMITHKLINE S.P.A. has authorised and requested our making the application, and

WHEREAS GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT LIMITED, a company incorporated in England whose registered address is 980 Great West Road, Brentford, Middlesex TW8 9GS, England, is desirous of acquiring from GLAXOSMITHKLINE S.P.A. the whole right, title and interest in and to the invention and in and to the application, and

WHEREAS GLAXO GROUP LIMITED a company incorporated in England whose registered address is Glaxo Wellcome House, Berkeley Avenue, Greenford, Middlesex, UB6 0NN, England, is desirous of acquiring the whole right, title and interest in and to the invention and in and to any applications for the invention and any Letters Patent to be obtained therefor, in all countries, including the United States of America, its territories and possessions;

NOW, THEREFORE, to all whom it may concern be it known that I/we, the inventor(s), hereby confirm the ownership by GLAXOSMITHKLINE S.P.A. of the invention and the application by operation of law and, if under the law of the United States of America I/we the inventor(s) have any ownership right, title and interest in and to the invention and the application, (which I/we do not believe to be the case and claim no ownership right, title or interest in and to the invention and to the application based on the law of Italy), I/we the inventor(s) nevertheless hereby assign and transfer such ownership right, title and interest in and to the invention and to the application, including the right to claim priority from the application in respect of any subsequent applications, to GLAXOSMITHKLINE S.P.A..

GLAXOSMITHKLINE S.P.A. in turn hereby assigns and transfers to GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT LIMITED its whole right, title and interest in and to the invention and in and to the application.

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AND GLAXOSMITHKLINE S.P.A. and GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT LIMITED hereby, and I/we the inventor(s) for myself/ourselves and my/our respective executors and legal representatives hereby, agree at the request and cost of GLAXO GROUP LIMITED to provide information and make execute and deliver any and all other instruments in writing, and any and all further acts, applications, papers, affidavits, assignments and other documents which may be possible and are necessary or desirable to more effectually secure to and vest in GLAXO GROUP LIMITED, its successors and assigns, the whole right, title and interest in and to the invention and in

IN WITNESS whereof and with effect from the 11 Dec 2009, the inventor(s) and the Attorney & Authorised Official of GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT LIMITED, GLAXOSMITHKLINE S.P.A. and GLAXO GROUP LIMITED have hereunto set their respective hands.

Inventor Name	Signature	Date
Giuseppe ALVARO:		
Anne DECOR:	AMPERICOR	April 12,2011
Stefano FONTANA:		
Dieter HAMPRECHT:		
Charles LARGE:		
Agostino MARASCO:		

SIGNED by MARCUS JONATHAN	WILLIAM	DALTON
As the Attorney of GLAXOSMITHKLINE	RESEARCH AN	D DEVELOPMENT LIMITED,
GLAXOSMITHKLINE S.P.A. AND GLAX	O GROUP LIMI	TED
Maray Jaken.	Date:1	6 MAY 2011

ASSIGNMENT

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NOW, THEREFORE, to all whom it may concern be it known that I/we, the inventor(s), hereby confirm the ownership by GLAXOSMITHKLINE S.P.A. of the invention and the application by operation of law and, if under the law of the United States of America I/we the inventor(s) have any ownership right, title and interest in and to the invention and the application, (which I/we do not believe to be the case and claim no ownership right, title or interest in and to the invention and to the application based on the law of Italy), I/we the inventor(s) nevertheless hereby assign and transfer such ownership right, title and interest in and to the invention and to the application, including the right to claim priority from the application in respect of any subsequent applications, to GLAXOSMITHKLINE S.P.A.

GLAXOSMITHKLINE S.P.A. in turn hereby assigns and transfers to GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT LIMITED its whole right, title and interest in and to the invention and in and to the application.

assigns and transfers to GLAXO GROUP LIMITED its whole right, title and interest in all countries, including the United States of America, its territories and possessions in and to the invention and in and to the application including the right to claim priority from the application in respect of any subsequent applications, and in and to any divisional application, continuation or continuation in part application thereof, and in and to any Supplementary Protection Certificate, extension or re-issue thereof, and I/we the inventor(s) and GLAXOSMITHKLINE S.P.A. and GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT LIMITED hereby authorise and request any patent arising therefrom, in all countries, including the United States of America, its territories and possessions, be issued to GLAXO GROUP LIMITED;

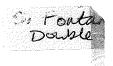
AND GLAXOSMITHKLINE S.P.A. and GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT LIMITED hereby, and I/we the inventor(s) for myself/ourselves and my/our respective executors and legal representatives hereby, agree at the request and cost of GLAXO GROUP LIMITED to provide information and make execute and deliver any and all other instruments in writing, and any and all further acts, applications, papers, affidavits, assignments and other documents which may be possible and are necessary or desirable to more effectually secure to and vest in GLAXO GROUP LIMITED, its successors and assigns, the whole right, title and interest in and to the invention and in

IN WITNESS whereof and with effect from the 11 Dec 2009, the inventor(s) and the Attorney & Authorised Official of GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT LIMITED, GLAXOSMITHKLINE S.P.A. and GLAXO GROUP LIMITED have hereunto set their respective hands.

Inventor Name	Signature	Date
Giuseppe ALVARO:	·	
Anne DECOR:		
Stefano FONTANA:		
Dieter HAMPRECHT:		
Charles LARGE:		
Agostino MARASCO:	ps o Obreans	12/04/2011

SIGNED by	MARCUS	JONATHAN	WILLIAM	DALTON	
•				DEVELOPMENT LIN	/ITED,
GLAXOSMITHKLINE S.P.A. AND GLAXO GROUP LIMITED					

Maraw Julle Date: 16 MAY 2011



ASSIGNMENT

WHEREAS I/WE, Giuseppe ALVARO, Stefano FONTANA, Agostino MARASCO all citizens of Italy, Anne DÉCOR a citizen of France, Dieter HAMPRECHT a citizen of Germany, Charles LARGE a citizen of United Kingdom, all of Verona, Italy (hereinafter called "the inventor(s)") have invented or discovered certain improvements in "Novel Compounds" (hereinafter referred to as "the invention and improvements") for which priority applications 0921760.5 was filed on 11 Dec 2009 and 1012924.5 was filed on 30 July 2010 in the United Kingdom, and for which a PCT international application PCT/EP2010/068946 was filed on 06 Dec 2010, designating the United States of America and naming assignor as inventor, and in the United States only applicant/inventor.

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whereas Glaxo Group Limited a company incorporated in England whose registered address is Glaxo Wellcome House, Berkeley Avenue, Greenford, Middlesex, UB6 0NN, England, is desirous of acquiring the whole right, title and interest in and to the invention and in and to any applications for the invention and any Letters Patent to be obtained therefor, in all countries, including the United States of America, its territories and possessions;

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Inventor Name	Signature	Date
Giuseppe ALVARO:		
Anne DECOR:		
Stefano FONTANA:	yel Fonton	27 APRIL 2011
Dieter HAMPRECHT:_	Approximation and the second s	
Charles LARGE:		
Agostino MARASCO:		

ASSIGNMENT

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AND GLAXOSMITHKLINE S.P.A. and GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT LIMITED hereby, and I/we the inventor(s) for myself/ourselves and my/our respective executors and legal representatives hereby, agree at the request and cost of GLAXO GROUP LIMITED to provide information and make execute and deliver any and all other instruments in writing, and any and all further acts, applications, papers, affidavits, assignments and other documents which may be possible and are necessary or desirable to more effectually secure to and vest in GLAXO GROUP LIMITED, its successors and assigns, the whole right, title and interest in and to the invention and in

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Inventor Name	Signature	Date
Giuseppe ALVARO:		
Anne DECOR:		
Stefano FONTANA:		
Dieter HAMPRECHT:	2565	12 Apr 201
Charles LARGE:		**************************************
Agostino MARASCO:		

SIGNED by MARCUS	JONATHAN	WILLIAM	DALTON	
As the Attorney of GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT LIMITED, GLAXOSMITHKLINE S.P.A. AND GLAXO GROUP LIMITED				

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AND GLAXOSMITHKLINE S.P.A. and GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT LIMITED hereby, and I/we the inventor(s) for myself/ourselves and my/our respective executors and legal representatives hereby, agree at the request and cost of GLAXO GROUP LIMITED to provide information and make execute and deliver any and all other instruments in writing, and any and all further acts, applications, papers, affidavits, assignments and other documents which may be possible and are necessary or desirable to more effectually secure to and vest in GLAXO GROUP LIMITED, its successors and assigns, the whole right, title and interest in and to the invention and in

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Inventor Name	Signature	Date
Giuseppe ALVARO:		
Anne DECOR:		
Stefano FONTANA:		
Dieter HAMPRECHT:		
Charles LARGE: <i></i>		18 MARRIL 2011
Agostino MARASCO:		

SIGNED by MARCUS JONATHAN WI As the Attorney of GLAXOSMITHKLINE F GLAXOSMITHKLINE S.P.A. AND GLAX	RESEAR	CH AND DEV	/ELOPMENT !	IMITED,
Marcus John.	Date:	1 6 MAY	2011	_

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Inventor Name	Signature	Date
Giuseppe ALVARO:	Sirge Ilvoro	12.04.201
Anne DECOR:		
Stefano FONTANA:		
Dieter HAMPRECHT:		
Charles LARGE:		
Agostino MARASCO:		

SIGNED by MARCUS JUNATH	AN WIL	LIAM DALTON	
As the Attorney of GLAXOSMITHKLIN	E RESEAR	CH AND DEVELOPMENT L	IMITED.
GLAXOSMITHKLINE S.P.A. AND GLA			Í
Marcustofelder	Date:	1 6 MAY 2011	