

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT						
NATURE OF CONVEYANCE:	ASSIGNMENT						
CONVEYING PARTY DATA							
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Frank Lippert</td> <td>06/27/2013</td> </tr> <tr> <td>Andrew Gordon Crawshaw</td> <td>06/27/2013</td> </tr> </tbody> </table>		Name	Execution Date	Frank Lippert	06/27/2013	Andrew Gordon Crawshaw	06/27/2013
Name	Execution Date						
Frank Lippert	06/27/2013						
Andrew Gordon Crawshaw	06/27/2013						
RECEIVING PARTY DATA							
Name:	Glaxo Group Limited						
Street Address:	Berkeley Avenue						
City:	Greenford, Middlesex						
State/Country:	UNITED KINGDOM						
Postal Code:	UB6 0NN						
PROPERTY NUMBERS Total: 1							
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13121234</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13121234		
Property Type	Number						
Application Number:	13121234						
CORRESPONDENCE DATA							
Fax Number:	6102705253						
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>							
Phone:	610-270-5019						
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Correspondent Name:	GlaxoSmithKline						
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NAME OF SUBMITTER:	Nora L. Stein						
Signature:	/Nora L. Stein/						
Date:	07/08/2013						

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**Total Attachments: 6**

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**ASSIGNMENT**

WHEREAS I/WE, **Andrew Gordon CRAWSHAW** of **Weybridge, Surrey, GB**, a **British citizen** and **Frank LIPPERT** of **Weybridge, Surrey, GB**, a **German citizen** (hereinafter called "the inventor(s)") have invented or discovered "**Novel Composition**" (hereinafter called "the invention") for which an application for Letters Patent in the *United States of America* was filed on **30-Sep-2008** under application number **61/101505**, and for which a PCT international application is now being filed designating the United States of America. I/We hereby authorize and request that the filing date and PCT International application number, when known, be inserted here in parentheses;

(PCT Application No **PCT/EP2009/062499**, filed **28-Sep-2009**)

WHEREAS the invention, being made in the course of my employment, belongs to my/our employer at that time, namely **GLAXOSMITHKLINE SERVICES UNLIMITED** a company incorporated in England whose registered address is 980 Great West Road, Brentford, Middlesex TW8 9GS, England, and

WHEREAS **GLAXOSMITHKLINE SERVICES UNLIMITED** 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 SERVICES UNLIMITED** 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 SERVICES UNLIMITED** 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 the United Kingdom), 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 SERVICES UNLIMITED. GLAXOSMITHKLINE SERVICES UNLIMITED** 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.

**GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT LIMITED** in turn hereby 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 SERVICES UNLIMITED** 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 SERVICES UNLIMITED** 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 and to the application hereby assigned and transferred in all countries, including the United States of America, its territories and possessions.


IN WITNESS whereof and with effect from the 30-Sep-2008, the inventor(s) and Peter John GIDDINGS as Attorney of GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT LIMITED and GLAXOSMITHKLINE SERVICES UNLIMITED by virtue of a Powers of Attorney granted by GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT LIMITED and GLAXOSMITHKLINE SERVICES UNLIMITED have hereunto set their respective hands.

SIGNED by Andrew Gordon CRAWSHAW: \_\_\_\_\_

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

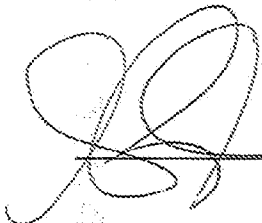
SIGNED by Frank LIPPERT: \_\_\_\_\_ 

Date: JUN 27 2013

EDWARD R. GIMMI 

8 July 2013

SIGNED by ~~Peter John GIDDINGS~~ as the Attorney of GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT LIMITED and GLAXOSMITHKLINE SERVICES UNLIMITED and GLAXO GROUP LIMITED

 \_\_\_\_\_ Date: 8 July 2013

**ASSIGNMENT**

WHEREAS I/WE, Andrew Gordon CRAWSHAW of Weybridge, Surrey, GB, a British citizen and Frank LIPPERT of Weybridge, Surrey, GB, a German citizen (hereinafter called "the inventor(s)") have invented or discovered "**Novel Composition**" (hereinafter called "the invention") for which an application for Letters Patent in the *United States of America* was filed on **30-Sep-2008** under application number **61/101505**, and for which a PCT international application is now being filed designating the United States of America. I/We hereby authorize and request that the filing date and PCT international application number, when known, be inserted here in parentheses;

(PCT Application No PCT/EP2009/062499, filed **28-Sep-2009**)

WHEREAS the invention, being made in the course of my employment, belongs to my/our employer at that time, namely **GLAXOSMITHKLINE SERVICES UNLIMITED** a company incorporated in England whose registered address is 980 Great West Road, Brentford, Middlesex TW8 9GS, England, and

WHEREAS **GLAXOSMITHKLINE SERVICES UNLIMITED** 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 SERVICES UNLIMITED** 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 SERVICES UNLIMITED** 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 the United Kingdom), 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 SERVICES UNLIMITED**. **GLAXOSMITHKLINE SERVICES UNLIMITED** 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.

**GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT LIMITED** in turn hereby 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 SERVICES UNLIMITED** 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 SERVICES UNLIMITED** 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 and to the application hereby assigned and transferred in all countries, including the United States of America, its territories and possessions.

IN WITNESS whereof and with effect from the 30-Sep-2008, the inventor(s) and Peter John GIDDINGS as Attorney of GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT LIMITED and GLAXOSMITHKLINE SERVICES UNLIMITED by virtue of a Powers of Attorney granted by GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT LIMITED and GLAXOSMITHKLINE SERVICES UNLIMITED have hereunto set their respective hands.

SIGNED by Andrew Gordon CRAWSHAW:



Date: 27 June 2013

SIGNED by Frank LIPPERT:

\_\_\_\_\_

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

<sup>re</sup>  
RICHARD L. ERSEHAN  
SIGNED by ~~Peter John GIDDINGS~~ as the Attorney of GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT LIMITED and GLAXOSMITHKLINE SERVICES UNLIMITED and GLAXO GROUP LIMITED



Date: 1 July 2013