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| PATENT ASSIGNMENT COVER SHEET |
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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| NIALL ANDREW ANDERSON | 10/13/2015 |
| MATTHEW HOWARD JAMES CAMPBELL-CRAWFORD | 10/13/2015 |
| ASHLEY PAUL HANCOCK | 10/13/2015 |
| JOHN MARTIN PRITCHARD | 10/13/2015 |
| JOANNA MARY REDMOND | 10/13/2015 |
| RECEIVING PARTY DATA | |
| Name: | GLAXOSMITHKLINE INTELLECTUAL PROPERTY DEVELOPMENT LIMITED |
| Street Address: | 980 GREAT WEST ROAD |
| City: | BRENTFORD, MIDDLESEX |
| State/Country: | UNITED KINGDOM |
| Postal Code: | TW8 9GS |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 15922674 |
| CORRESPONDENCE DATA | |
| Fax Number: | (610)917-6934 |
| <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> | |
| Phone: | 610-970-3401 |
| Email: | US_CIPKOP@GSK.com |
| Correspondent Name: | GLAXOSMITHKLINE |
| Address Line 1: | 1250 SOUTH COLLEGEVILLE ROAD |
| Address Line 2: | GLOBAL PATENTS - UP4110 |
| Address Line 4: | COLLEGEVILLE, PENNSYLVANIA 19426 |
| ATTORNEY DOCKET NUMBER: | PB65728C1 |
| NAME OF SUBMITTER: | SUVIAN NESMITH |
| SIGNATURE: | /Suvian Nesmith/ |
| DATE SIGNED: | 03/28/2019 |
| Total Attachments: 3 | |

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ASSIGNMENT

WHEREAS I/WE, Niall Andrew ANDERSON; Matthew Howard James CAMPBELL-CRAWFORD; Ashley Paul HANCOCK; John Martin PRITCHARD and Joanna Mary REDMOND all citizens of the United Kingdom and all of Stevenage, Hertfordshire, GB, (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 application 1417002.1 was filed on 26 Sep 2014 in the United Kingdom, and for which a PCT international application PCT/EP2015/071776 was filed on 22 Sep 2015, designating the United States of America.

WHEREAS the invention and improvements, being made in the course of my employment, belong 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 improvements and in and to the application, and

WHEREAS GLAXOSMITHKLINE INTELLECTUAL PROPERTY DEVELOPMENT LIMITED a company incorporated in England whose registered address is 980 Great West Road, Brentford, Middlesex TW8 9GS, England, is desirous of acquiring the whole right, title and interest in and to the invention and improvements and in and to any applications for the invention and improvements 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 improvements 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 improvements and the application, (which I/we do not believe to be the case and claim no


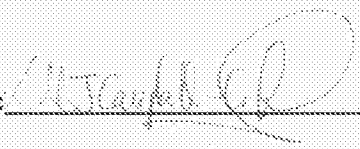


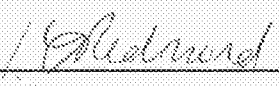
ownership right, title or interest in and to the invention and improvements and to the application based on the law of the United Kingdom), I/we the inventor(s) nevertheless hereby assign and transfer such ownership right, title and interest in and to the invention and improvements and to the application, 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 **GLAXOSMITHKLINE INTELLECTUAL PROPERTY DEVELOPMENT 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 improvements 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 **GLAXOSMITHKLINE INTELLECTUAL PROPERTY DEVELOPMENT 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 GLAXOSMITHKLINE INTELLECTUAL PROPERTY DEVELOPMENT 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 **GLAXOSMITHKLINE INTELLECTUAL PROPERTY DEVELOPMENT LIMITED**, its successors and assigns, the whole right, title and interest in and to the invention and improvements 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 **26 Sep 2014**, the inventor(s) and the Attorney & Authorised Official of GLAXOSMITHKLINE SERVICES UNLIMITED and GLAXOSMITHKLINE

RESEARCH AND DEVELOPMENT LIMITED and GLAXOSMITHKLINE INTELLECTUAL PROPERTY DEVELOPMENT LIMITED have hereunto set their respective hands.

| Inventor Name | Signature | Date |
|---|---|-------------|
| Niall Andrew ANDERSON: |  | 13/10/2015 |
| Matthew Howard James CAMPBELL-CRAWFORD: |  | 13 Oct 2015 |
| Ashley Paul HANCOCK: |  | 13/10/2015 |
| John Martin PRITCHARD: |  | 13 Oct 2015 |
| Joanna Mary REDMOND: |  | 13/10/2015 |

SIGNED by KAREN A. CRAWLEY As the
 Attorney & Authorised Official of GLAXOSMITHKLINE SERVICES UNLIMITED and
 GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT LIMITED and GLAXOSMITHKLINE
 INTELLECTUAL PROPERTY DEVELOPMENT LIMITED:



 Signature

Date: 19 OCT 2015