

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5023689

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|---|-------------------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| JOHANNES WILHELMUS MARIA NISSINK | 06/19/2018 |
| MAURICE RAYMOND VERSCHOYLE FINLAY | 04/28/2018 |
| RECEIVING PARTY DATA | |
| Name: | ASTRAZENECA UK LIMITED |
| Street Address: | 1 FRANCIS CRICK AVENUE |
| Internal Address: | CAMBRIDGE BIOMEDICAL CAMPUS |
| City: | CAMBRIDGE |
| State/Country: | UNITED KINGDOM |
| Postal Code: | CB2 0AA |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 15363030 |
| CORRESPONDENCE DATA | |
| Fax Number: | (301)576-6932 |
| <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: | 301-398-3199 |
| Email: | denise.cooper@astrazeneca.com |
| Correspondent Name: | ASTRAZENECA PHARMACEUTICALS |
| Address Line 1: | ONE MEDIMMUNE WAY |
| Address Line 4: | GAITHERSBURG, MARYLAND 20878 |
| ATTORNEY DOCKET NUMBER: | 200381-US-NP |
| NAME OF SUBMITTER: | DENISE COOPER |
| SIGNATURE: | /Denise Cooper/ |
| DATE SIGNED: | 06/26/2018 |
| Total Attachments: 6 | |
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ASSIGNMENT OF PATENT RIGHTS

THIS ASSIGNMENT is made as of the 30th of November 2016 (the "Effective Date") by and between

Maurice Raymond Verschoyle FINLAY, a British citizen and **Johannes Wilhelmus Maria NISSINK**, a Dutch citizen, each of **ASTRAZENECA UK LIMITED**, a company incorporated in England and Wales under no. 3674842, with registered office address at 1 Francis Crick Avenue, Cambridge Biomedical Campus, Cambridge, England, CB2 0AA; ("Assignors"); and

ASTRAZENECA UK LIMITED, a company incorporated in England and Wales under no. 3674842, with registered office address at 1 Francis Crick Avenue, Cambridge Biomedical Campus, Cambridge, England, CB2 0AA ("Assignee")

WHEREAS

- A. Assignors have made certain inventions (the "Inventions") in respect of which the patent applications identified in the attached Schedule have been filed (the "Applications").
- B. Assignee wishes to secure the entire right, title and interest in and to the Inventions and to the Application.

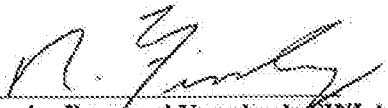
NOW THEREFORE IT IS HEREBY AGREED AS FOLLOWS:

1. For good and valuable consideration made by Assignee to Assignors, receipt of which is hereby acknowledged, the Assignors hereby confirm that they have assigned, and in so far as there may be any outstanding rights that have not been assigned to the Assignee do hereby assign, with full title guarantee, free from all and any charges or other third party rights, to Assignee absolutely all their right, title and interest in and to the Inventions, the Application and any patents or applications derived therefrom; any divisions, continuations and continuations-in-part thereof; any re-issues, re-examinations, or extensions thereof; all rights to claim priority on the basis of the Application and any patents or applications derived therefrom; and the right to file patent applications derived from the Application directly in the name of Assignee or an affiliated company of Assignee (in countries or regions where such filings are permissible) (collectively, the "Rights"), whether now existing or hereafter arising, to the full end of the term for which the Rights have been granted, reissued, re-examined or extended. Assignors warrant that the Rights are unencumbered. Assignors acknowledge that Assignee shall have the rights to further assign or otherwise transfer any or all of the Rights to any third party and Assignors waive any right of first refusal that they may have for acquiring such Rights.
2. Assignors each hereby agree with Assignee that their assignment to Assignee includes, but is not limited to, any and all causes of action, claims, demands or other rights, occasioned from or because of any and all past and future infringement of any of the Rights, including all rights to recover damages, profits and injunctive relief for infringement of any of the Rights.
3. Assignors each hereby agree with Assignee that they shall, at the expense of Assignee, execute and sign all such lawful instruments, applications and documents and do all such lawful acts and things as may reasonably be required by Assignee to enable Assignee or its successors, nominees or assigns to:
 - a) secure the vesting of the Rights in Assignee or in its successors, nominees or assigns;
 - b) defeat any challenge to the validity of and resolve any questions concerning the Rights; and
 - c) apply for, prosecute and obtain patent or similar protection in the United States and all other countries of the world for an invention embodied by the Rights, including the right to claim convention priority from such Patents and including, without limitation, cooperating in any proceedings involving examinations, re-examinations, reissues, opposition and cancellation proceedings, interferences, infringement proceedings, court actions and the like.

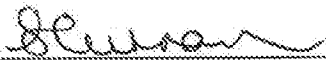
4. Assignor hereby authorizes the United States Commissioner of Patents and Trademarks and, as appropriate, the corresponding officials of other countries, to record this Assignment.

5. This assignment shall be governed by and construed in accordance with the laws of England and Wales and the parties hereby submit to the exclusive jurisdiction of the English courts.

Any attorney of record is authorized and requested by the execution of this assignment to insert into this assignment any further information necessary for recordation of this document.


Maurice Raymond Verschoye FINLAY
Date 28 April 2018

Johannes Wilhelmus Maria NISSINK
Date _____


Signed for and on behalf of
ASTRAZENECA UK LIMITED
Name: Sally CURRAN
Title: Authorised Signatory
Date 22nd June 2018

THE SCHEDULE

| APPLICATIONS | | | | |
|-----------------------------|----------------|--------------------|--------------------|--|
| AstraZeneca Case No: | Country | Filing Type | Filing Date | Application No. and/or Title of Invention |
| 200381-WO-PCT | International | PCT | 30 Nov 2016 | PCT/EP2016/079250 |
| 200381-AR-NP | Argentina | NP | 30 Nov 2016 | 20160103663 |
| 200381-BO-NP | Bolivia | NP | 30 Nov 2016 | SP-278-2016 |
| 200381-BS-NP | Bahamas | NP | 25 Apr 2017 | 2784 |
| 200381-ET-NP | Ethiopia | NP | 29 Nov 2016 | ET/P/16/349 |
| 200381-GC-GCP | GCC | GCP | 29 Nov 2016 | 32456 |
| 200381-JM-NP | Jamaica | NP | 21 Dec 2016 | 18/1/5788 |
| 200381-LB-NP | Lebanon | NP | 29 Nov 2016 | 11067 |
| 200381-PK-NP | Pakistan | NP | 29 Nov 2016 | 751/2016 |
| 200381-TW-NP | Taiwan | NP | 29 Nov 2016 | 105139337 |
| 200381-US-NP | US | NP | 29 Nov 2016 | 15/363030 |
| 200381-VE-NP | Venezuela | NP | 30 Nov 2016 | 000589-2016 |

Priority Applications

| AstraZeneca Case No: | Country | Filing Type | Filing Date | Application No. and/or Title of Invention |
|-----------------------------|----------------|--------------------|--------------------|--|
| 200381-US-PSP | US | PSP | 30 Nov 2015 | 62/260789 |

ASSIGNMENT OF PATENT RIGHTS

THIS ASSIGNMENT is made as of the 30th of November 2016 (the "Effective Date") by and between

Maurice Raymond Verschoyle FINLAY, a British citizen and Johannes Wilhelmus Maria NISSINK, a Dutch citizen, each of ASTRAZENECA UK LIMITED, a company incorporated in England and Wales under no. 3674842, with registered office address at 1 Francis Crick Avenue, Cambridge Biomedical Campus, Cambridge, England, CB2 0AA; ("Assignors"); and

ASTRAZENECA UK LIMITED, a company incorporated in England and Wales under no. 3674842, with registered office address at 1 Francis Crick Avenue, Cambridge Biomedical Campus, Cambridge, England, CB2 0AA ("Assignee")

WHEREAS

- A. Assignors have made certain inventions (the "Inventions") in respect of which the patent applications identified in the attached Schedule have been filed (the "Applications").
- B. Assignee wishes to secure the entire right, title and interest in and to the Inventions and to the Application.

NOW THEREFORE IT IS HEREBY AGREED AS FOLLOWS:

1. For good and valuable consideration made by Assignee to Assignors, receipt of which is hereby acknowledged, the Assignors hereby confirm that they have assigned, and in so far as there may be any outstanding rights that have not been assigned to the Assignee do hereby assign, with full title guarantee, free from all and any charges or other third party rights, to Assignee absolutely all their right, title and interest in and to the Inventions, the Application and any patents or applications derived therefrom; any divisions, continuations and continuations-in-part thereof; any re-issues, re-examinations, or extensions thereof; all rights to claim priority on the basis of the Application and any patents or applications derived therefrom; and the right to file patent applications derived from the Application directly in the name of Assignee or an affiliated company of Assignee (in countries or regions where such filings are permissible) (collectively, the "Rights"), whether now existing or hereafter arising, to the full end of the term for which the Rights have been granted, reissued, re-examined or extended. Assignors warrant that the Rights are unencumbered. Assignors acknowledge that Assignee shall have the rights to further assign or otherwise transfer any or all of the Rights to any third party and Assignors waive any right of first refusal that they may have for acquiring such Rights.
2. Assignors each hereby agree with Assignee that their assignment to Assignee includes, but is not limited to, any and all causes of action, claims, demands or other rights, occasioned from or because of any and all past and future infringement of any of the Rights, including all rights to recover damages, profits and injunctive relief for infringement of any of the Rights.
3. Assignors each hereby agree with Assignee that they shall, at the expense of Assignee, execute and sign all such lawful instruments, applications and documents and do all such lawful acts and things as may reasonably be required by Assignee to enable Assignee or its successors, nominees or assigns to:
 - a) secure the vesting of the Rights in Assignee or in its successors, nominees or assigns;
 - b) defeat any challenge to the validity of and resolve any questions concerning the Rights; and
 - c) apply for, prosecute and obtain patent or similar protection in the United States and all other countries of the world for an invention embodied by the Rights, including the right to claim convention priority from such Patents and including, without limitation, cooperating in any proceedings involving examinations, re-examinations, reissues, opposition and cancellation proceedings, interferences, infringement proceedings, court actions and the like.

4. Assignor hereby authorizes the United States Commissioner of Patents and Trademarks and, as appropriate, the corresponding officials of other countries, to record this Assignment.

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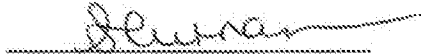
Maurice Raymond Verschoye FINLAY

Date _____



Johannes Wilhelmus Maria NISSINK

Date 19/6/2012



Signed for and on behalf of
ASTRAZENECA UK LIMITED

Name: Sally CURRAN

Title: Authorised Signatory

Date 22nd June 2018

THE SCHEDULE

| APPLICATIONS | | | | |
|-----------------------------|----------------|--------------------|--------------------|--|
| AstraZeneca Case No: | Country | Filing Type | Filing Date | Application No. and/or Title of Invention |
| 200381-WO-PCT | International | PCT | 30 Nov 2016 | PCT/EP2016/079250 |
| 200381-AR-NP | Argentina | NP | 30 Nov 2016 | 20160103663 |
| 200381-BO-NP | Bolivia | NP | 30 Nov 2016 | SP-278-2016 |
| 200381-BS-NP | Bahamas | NP | 25 Apr 2017 | 2784 |
| 200381-ET-NP | Ethiopia | NP | 29 Nov 2016 | ET/P/16/349 |
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| 200381-LB-NP | Lebanon | NP | 29 Nov 2016 | 11067 |
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| 200381-TW-NP | Taiwan | NP | 29 Nov 2016 | 105139337 |
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| 200381-US-PSP | US | PSP | 30 Nov 2015 | 62/260789 |