## 506452607 01/15/2021 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6499377

| SUBMISSION TYPE:   |  | NEW AS   | NEW ASSIGNMENT  |                             |                   |
|--|--|--|---|-----------------------------|-------------------|
| NATURE OF CONVEYANCE:  |  | ASSIGN   | ASSIGNMENT  |                             |                   |
| CONVEYING PARTY  | DATA   |  |   |                             |                   |
|  |  | Name   | Name  |                             | Execution Date    |
| ASTRAZENECA UK I   | IMITED   |  |   |                             | 02/26/2018        |
|  | DATA   |  |   |                             |                   |
| Name:  | ASTRAZ   | ASTRAZENECA AB   |   |                             |                   |
| Street Address:  | SE-151   | SE-151 85  |   |                             |                   |
| City:  | SODER  | SODERTALJE   |   |                             |                   |
| State/Country:   | SWEDE  | SWEDEN   |   |                             |                   |
|  |  |  |   |                             |                   |
| Property Type  |  |  | Number  |                             |                   |
| Application Number: 1  |  | 7095043  |   |                             |                   |
|  |  |  |   |                             |                   |
|  |  |  |   |                             |                   |
|  |  |  |   |                             |                   |
| Fax Number:  | (3   | 301)576-6932<br>the e-mail ad  |   | unsuccessfu                 | l it will be sent |
|  | (:<br>I be sent to   | the e-mail add   | dress first; if that is   |                             |                   |
| Fax Number:<br>Correspondence wil<br>using a fax number,   | (<br>I be sent to<br>if provided;                          | the e-mail add   | dress first; if that is   |                             |                   |
| Fax Number:<br><i>Correspondence wil</i>   | (:<br><b>I be sent to</b><br><b>if provided;</b><br>3<br>p | the e-mail add<br>if that is uns<br>01-398-0000<br>atents@astra  | dress first; if that is<br>uccessful, it will be<br>zeneca.com  | sent via US I               |                   |
| Fax Number:<br><i>Correspondence wil<br/>using a fax number,</i><br>Phone:<br>Email:<br>Correspondent Nam  | ()<br><b>I be sent to</b><br>if provided;<br>3<br>P        | the e-mail add<br>if that is uns<br>01-398-0000<br>atents@astra  | dress first; if that is<br>uccessful, it will be  | sent via US I               |                   |
| Fax Number:<br><i>Correspondence wil<br/>using a fax number,</i><br>Phone:<br>Email:   | (:<br>I be sent to<br>if provided;<br>3<br>p<br>e: A       | the e-mail add<br>if that is uns<br>01-398-0000<br>atents@astra  | dress first; if that is<br>uccessful, it will be<br>zeneca.com<br>A PHARMACEUTIC  | sent via US I               |                   |
| Fax Number:<br><i>Correspondence wil<br/>using a fax number,</i><br>Phone:<br>Email:<br>Correspondent Nam  | ()<br><i>if provided;</i><br>3<br>p<br>e: A                | the e-mail add<br>if that is uns<br>01-398-0000<br>atents@astrat<br>STRAZENEC<br>DNE MEDIMM  | dress first; if that is<br>uccessful, it will be<br>zeneca.com<br>A PHARMACEUTIC  | <b>sent via US I</b><br>ALS |                   |
| Fax Number:<br><i>Correspondence wil<br/>using a fax number,</i><br>Phone:<br>Email:<br>Correspondent Nam<br>Address Line 1:<br>Address Line 4:  | ()<br>if provided;<br>3<br>ع<br>e: ۴                       | the e-mail add<br>if that is uns<br>01-398-0000<br>atents@astra<br>STRAZENEC<br>DNE MEDIMM<br>AITHERSBUI                                       | dress first; if that is<br>uccessful, it will be<br>zeneca.com<br>A PHARMACEUTIC,<br>UNE WAY  | <b>sent via US I</b><br>ALS |                   |
| Fax Number:<br><i>Correspondence wil<br/>using a fax number,</i><br>Phone:<br>Email:<br>Correspondent Nam<br>Address Line 1:   | ()<br>if provided;<br>ع<br>e: ۴<br>NUMBER:                 | the e-mail add<br>if that is uns<br>01-398-0000<br>atents@astra<br>STRAZENEC<br>DNE MEDIMM<br>AITHERSBUI                                       | dress first; if that is<br>uccessful, it will be<br>zeneca.com<br>A PHARMACEUTIC,<br>UNE WAY<br>RG, MARYLAND 208                                  | <b>sent via US I</b><br>ALS |                   |
| Fax Number:<br><i>Correspondence wil<br/>using a fax number,</i><br>Phone:<br>Email:<br>Correspondent Nam<br>Address Line 1:<br>Address Line 4:  | ()<br>if provided;<br>ع<br>e: ۴<br>NUMBER:                 | the e-mail add<br>if that is uns<br>01-398-0000<br>atents@astra<br>STRAZENEC<br>DNE MEDIMM<br>AITHERSBUI                                       | dress first; if that is<br>uccessful, it will be<br>a PHARMACEUTIC<br>UNE WAY<br>RG, MARYLAND 208<br>JS-CNT[2]<br>COOPER                          | <b>sent via US I</b><br>ALS |                   |
| Fax Number:<br><i>Correspondence wil<br/>using a fax number,</i><br>Phone:<br>Email:<br>Correspondent Nam<br>Address Line 1:<br>Address Line 4:<br>ATTORNEY DOCKET   | ()<br>if provided;<br>ع<br>e: ۴<br>NUMBER:                 | the e-mail add<br>if that is uns<br>01-398-0000<br>patents@astrat<br>STRAZENEC<br>DNE MEDIMM<br>GAITHERSBUI<br>200588-0<br>DENISE              | dress first; if that is<br>uccessful, it will be<br>zeneca.com<br>A PHARMACEUTIC<br>UNE WAY<br>RG, MARYLAND 208<br>JS-CNT[2]<br>COOPER<br>Cooper/ | <b>sent via US I</b><br>ALS |                   |
| Fax Number:<br><i>Correspondence wil</i><br><i>using a fax number,</i><br>Phone:<br>Email:<br>Correspondent Nam<br>Address Line 1:<br>Address Line 4:<br>ATTORNEY DOCKET<br>NAME OF SUBMITTE<br>SIGNATURE:                 | ()<br>if provided;<br>ع<br>e: ۴<br>NUMBER:                 | the e-mail add<br>if that is uns<br>01-398-0000<br>patents@astrat<br>STRAZENEC<br>DNE MEDIMM<br>GAITHERSBUI<br>200588-0<br>DENISE<br>/Denise 0 | dress first; if that is<br>uccessful, it will be<br>zeneca.com<br>A PHARMACEUTIC<br>UNE WAY<br>RG, MARYLAND 208<br>JS-CNT[2]<br>COOPER<br>Cooper/ | <b>sent via US I</b><br>ALS |                   |
| Fax Number:<br><i>Correspondence wil</i><br><i>using a fax number,</i><br>Phone:<br>Email:<br>Correspondent Nam<br>Address Line 1:<br>Address Line 4:<br>ATTORNEY DOCKET<br>NAME OF SUBMITTE<br>SIGNATURE:<br>DATE SIGNED: | (i<br>if provided;<br>3<br>e: A<br>c<br>NUMBER:<br>R:      | the e-mail add<br>if that is uns<br>01-398-0000<br>patents@astrat<br>STRAZENEC<br>DNE MEDIMM<br>GAITHERSBUI<br>200588-0<br>DENISE<br>/Denise 0 | dress first; if that is<br>uccessful, it will be<br>zeneca.com<br>A PHARMACEUTIC<br>UNE WAY<br>RG, MARYLAND 208<br>JS-CNT[2]<br>COOPER<br>Cooper/ | <b>sent via US I</b><br>ALS |                   |

## ASSIGNMENT OF PATENT RIGHTS

THIS ASSIGNMENT is made as of the 22 day of February 2017 (the "Effective Date") by and between

- 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 ("Assignor"); and
- (2) ASTRAZENECA AB, a company incorporated in Sweden under no. 556011-7482 with registered office address at SE-151 85 Södertälje, Sweden ("Assignee").

WHEREAS, Assignor has agreed to assign to Assignee the Assignor's legal right, legal title and legal interest in and to US Provisional Application No. 62/461,983 filed on the 22 day of February 2017 (the "Application") and in and to the inventions and improvements disclosed in such Application.

## NOW THEREFORE IT IS HEREBY AGREED AS FOLLOWS:

1. In consideration of payments made by Assignee to Assignor, receipt of which is hereby acknowledged, the Assignor hereby assigns, with full title guarantee, free from all and any charges or other third party rights, to Assignee absolutely all their legal right, legal title and legal 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. Assignor acknowledges that Assignee shall have the rights to further assign or otherwise transfer any or all of the Rights to any third party and Assignor waives any right of first refusal that they may have for acquiring such Rights.

2. Assignor agrees 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. Assignor agrees 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 Assignce 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.

## PATENT REEL: 054934 FRAME: 0925

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.

LAQ

Signed for and on behalf of ASTRAZENECA UK LIMITED Name: Sally Curran Title: Authorised Signatory

Rebniary 2018 Date