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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 |
|--------------------|----------------|
| DAVID HARDERN | 02/28/2000 |
| ANTHONY INGALL | 02/28/2000 |
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PROPERTY NUMBERS Total: 11

| Property Type | Number |
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| Patent Number: | 6974868 |
| Patent Number: | 7250419 |
| Application Number: | 11711838 |
| Application Number: | 12149771 |
| Application Number: | 12591395 |
| Application Number: | 13137125 |
| Application Number: | 13423848 |
| Application Number: | 13665241 |
| Application Number: | 14068942 |
| Application Number: | 14310315 |
| Application Number: | 14611823 |

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> **PATENT REEL: 035165 FRAME: 0112**

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ATTORNEY DOCKET NUMBER: LCM-3764-213

NAME OF SUBMITTER: LEONARD C. MITCHARD

SIGNATURE: /Leonard C. Mitchard/

DATE SIGNED: 03/13/2015

Total Attachments: 2

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PATENT REEL: 035165 FRAME: 0113

ASSIGNMENT OF PATENT APPLICATION

(HARDERN, David;

(INGALL, Anthony,

(SPRINGTHORPE, Brian; (Inventors)

(GUILE, Simon;

WILLIS Paul:

all of AstraZeneca R&D Charnwood, Bakewell Road, Loughborough, Leics, LE11 5RH, United

In consideration of the sum of one dollar (\$1,00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to

(AstreZeneca UK Limited. (Assignee)

(of 15 Stanhope Gate, London, W1Y 6LN, United Kingdom (Address)

(hereinafter designated as the Assignae) the entire right, title and interest for the United States, its

territories, dependencies and possessions, and for the country of in the invention, and all application for patent and any

(Other

Letters Patent which may be granted therefore, known as countries)

L(Assignee's Case No. F 2049-1P US., filed as SE99/02256 on 2 December 1999 and designating (Titie)

for which the undersigned has (have) executed on even date herewith an application for patent in the United States of America or, if not on even date, then has executed

(on or has already filed in (U.S. appln. Serial No., filed on

(The undersigned acknowledges an obligation of assignment of this invention to said assignee at the time the invention was made.

The undersigned agree(s) to execute all papers and documents necessary in connection with the application or any interference which may be declared and any continuing or divisional applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient and further to perform any act which may be necessary in connection with claims or provisions of the international Convention for Protection of Industrial Property or similar agreements.

The undersigned agrae(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid-united States betent to the Assignee.

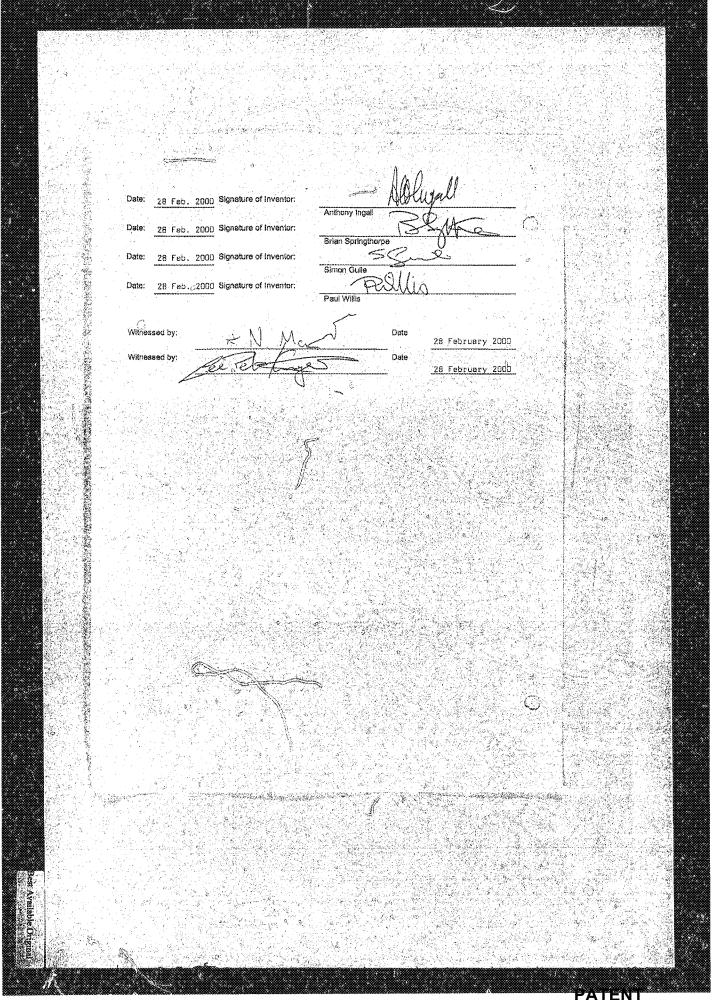
The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the firm of NIXON & VANDERHYE P.C. the power to insert on this assignment any further identification which may be necessary to desirable in order to comply with the rules of the United States Patent Office for recordation of this document.

in witness whereof, executed by the undersigned on the date(s) exposite the undersigned signature(s).

26 Feb. 2000 Signature of Inventor:

REEL: 035165 FRAME: 0114



RECORDED: 03/13/2015 REEL: 035165 FRAME: 0115