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PATENT ASSIGNMENT COVER SHEET

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NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
PAUL DAVID JOHNSON	11/03/2008
ANDREW LEACH	10/10/2008
RICHARD WILLIAM ARTHUR LUKE	10/10/2008
ZBIGNIEW STANLEY MATUSIAK	11/13/2008
JEFFREY JAMES MORRIS	11/03/2008

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16028979

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	103060-US-CNT[4]
NAME OF SUBMITTER:	AUDREY CLARK
SIGNATURE:	/Audrey Clark/
DATE SIGNED:	11/06/2018

Total Attachments: 3

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PATENT REEL: 047423 FRAME: 0366 505177421

ATTORNEY DOCKET NO.: AstraZeneca Ref.: 103060-1 US

ASSIGNMENT

Now, therefore, for good and valuable consideration, receipt and sufficiency of which is hereby acknowledged, We

Paul David JOHNSON; Andrew LEACH; Richard William Arthur LUKE; Zbigniew Stanley MATUSIAK and Jeffrey James MORRIS of AstraZeneca R&D Alderley, Alderley Park, Macclesfield, Cheshire, SK10 4TG, United Kingdom

hereafter referred to as ASSIGNOR (S),

Hereby sell(s), assign(s) and transfer(s) to ASSIGNEE **AstraZeneca AB**, a company created and existing under the laws of Sweden, having its Head Office at SE-151 85 Södertalje, Sweden, and the successors, assigns and legal representatives of the ASSIGNEE, the entire right, title and interest for the United States and its territorial possessions, and in all foreign countries, in and to the inventions and any and all improvements thereon which are the subject of an application entitled:

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And which is di	sclosed in:
(a) 🗌	U.S. patent application executed on even date herewith;
(b) 🗌	U.S. patent application executed on;
(c) 🗌	U.S. application no;
(d) [International application no. filed on .

And in and to the above application and any legal equivalent thereof in a foreign country, including the right to claim priority, and in and to any division, continuation or continuation-in-part, renewal or substitute thereof, and in and to all resulting Letters Patents or any reissue or reexamination thereof, to have and to hold the same to the full end of the term or terms for which any and all of said Letters Patent may be granted;

ASSIGNOR(S) authorize(s) and request(s) the issuing authority to issue any and all patents on said application or applications to said ASSIGNEE or its successors and assigns;

ASSIGNOR(S) hereby covenant(s) that ASSIGNOR(S) has/have the full power to make this assignment, and that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment; and

Without further payment or compensation by the ASSIGNEE or its successors and assigns, ASSIGNOR(S) further covenant(s) and agree(s) to communicate to said ASSIGNEE or its representatives, agents, its successors or assigns, any facts relating to said invention or inventions including evidence for purposes of interference or other administrative or legal proceedings whenever requested; to testify in any interference, legal or administrative proceedings, whenever requested; to execute and deliver, on request, all lawful papers required to make any of the foregoing provisions effective; and to do everything possible to aid said ASSIGNEE, its successors or assigns and nominees to secure, obtain and enforce proper patent protection for said invention or inventions in this or any foreign country.

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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.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the date below written.		
Ren	3.11.08.	
Paul David JOHNSON Signature of Assignor	Date of Assignor's Signature	
Signature of Witness Name of Witness Surely Coultain (Type or print clearly)	Signature of Witness Name of Witness (Type or print clearly)	
IN WITNESS WHEREOF, I have hereunto set my hand	d and seal on the date below written.	
Andrew LEACH Signature of Assignor	ା ୁ / ଏ ପ୍ରତ୍ୟୁଷ୍ଠ ଓ Date of Assignor's Signature	
Signature of Witness Name of Witness Name of Witness (Type or print clearly)	Signature of Witness Name of Witness (Type or print clearly) HELEN NOBLE	
IN WITNESS WHEREOF, I have hereunto set my hand	d and seal on the date below written.	
Richard William Arthur LUKE Signature of Assignor	Date of Assignor's Signature	
Signature of Witness Name of Witness (Type or print clearly)	Signature of Witness Name of Witness (Type or print clearly) HELEN NOSLE	
Additional signature pages attached: Yes No)	

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the date below written.		
Zb/gniew Stanley MATUSIAK Signature of Assignor	13 11, 2008 Date of Assignor's Signature	
WITNESSED BY:	Signature of Witness Name of Witness (Type or print clearly) HOLEN NORLE	
Jeffrey James MORRIS Signature of Assignor WITNESSED BY: Signature of Witness Name of Witness (Type or print cléarly)	and seal on the date below written. Julos Date of Assignor's Signature Signature of Witness Name of Witness (Type or print clearly)	
Additional signature pages attached: \square Yes \square No		