PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT4340222

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
PHILIPPE MARC HELENE DEHOTTAY	02/04/2014
MICHAEL LANERO FIDALGO	02/14/2014
DOMINIQUE JANSSENS	02/12/2014
MARC ROGER FERNAND ORVAL	02/10/2014

RECEIVING PARTY DATA

Name:	GLAXOSMITHKLINE BIOLOGICALS S.A.	
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City:	RIXENSART	
State/Country:	BELGIUM	
Postal Code:	B-1330	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14408415

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	VB65202US
NAME OF SUBMITTER:	JOHNIE JONES
SIGNATURE:	/Johnie Jones/
DATE SIGNED:	03/28/2017

Total Attachments: 4

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Assignment

WHEREAS I/WE, Philippe Marc Helene DEHOTTAY a citizen of Belgium, of Rixensart, Belgium; Michaël LANERO FIDALGO a citizen of Spain of c/o Rixensart, Belgium; Dominique JANSSENS a citizen of Belgium of Rixensart, Belgium; and Marc Roger Fernand ORVAL a citizen of Belgium of Rixensart, Belgium, (hereinafter called "the inventor(s)") have invented or discovered certain improvements in "FERMENTATION PROCESS" (hereinafter referred to as "the invention and improvements") for which priority application no. 1211256.1 was filled on 25 June 2012 at the United Kingdom Intellectual Property Office and priority application no. 61/663697 was filled on 25 June 2012 at the United States Patent and Trademark Office, and for which a PCT international application PCT/EP2013/063148 was filled on 24 June 2013, designating the United States of America.

WHEREAS GLAXOSMITHKLINE BIOLOGICALS s.A., a company incorporated in Belgium, whose registered office is at rue de l'Institut 89, B-1330 Rixensart, Belgium, is desirous of acquiring the whole right, title and interest in and to the invention, and in and to any applications for the invention 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 inventors, hereby confirm the ownership by GLAXOSMITHKLINE BIOLOGICALS S.A. of the invention 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 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 to the application based on the law of Beigium), I/we the inventor(s) nevertheless hereby assign and transfer such ownership right, title and interest in and to the invention and to the application, including the right to claim priority from the application in respect of any subsequent applications, to GLAXOSMITHKLINE BIOLOGICALS S.A. in all countries, including the United States of America, its territories and possessions;

AND I/we, the inventors, hereby assign and transfer to **GLAXOSMITHKLINE BIOLOGICALS S.A.**, my/our whole right title and interest in and to the invention and the application, 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)

hereby authorise and request any patent arising therefrom, in all countries, including the United States, its territories and possessions, be issued to GLAXOSMITHKLINE BIOLOGICALS S.A..

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 BIOLOGICALS S.A., 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 said GLAXOSMITHKLINE BIOLOGICALS S.A., its successors and assigns, the whole right, title and interest in and to the invention hereby assigned and transferred in all countries, including the United States of America, its territories and possessions.

IN WITNESS WHEREOF, and with effect from 25 Jun 2012, I/we the inventors and the Attorney & Authorised Official of **GLAXOSMITHKLINE BIOLOGICALS S.A.** have hereunto set my/our respective hand(s).

Inventor Name	Signature	Date
Philippe Marc Helene DE	EHOTTAY:	
Michaël LANERO FIDAL	GO: 4	> <u>14.08.2514</u>
Dominique JANSSENS:		
Marc Roger Fernand OR	VAL:	
	KUS TW DALTON	
Attorney & Authorised Off	icial of GLAXOSMITHKLINE BIOLOG	GICALS S.A.:
Signature	<u>////</u> Date:	5 F88 2014

Assignment

WHEREAS I/WE, Philippe Marc Helene DEHOTTAY a citizen of Belgium, of Rixensart, Belgium; Michael Lanero FIDALGO a citizen of Belgium of c/o Rixensart, Belgium; Dominique JANSSENS a citizen of Belgium of Rixensart, Belgium; and Marc Roger Fernand ORVAL a citizen of Belgium of Rixensart, Belgium, (hereinafter called "the inventor(s)") have invented or discovered certain improvements in "FERMENTATION PROCESS" (hereinafter referred to as "the invention and improvements") for which priority application no. 1211256.1 was filled on 25 June 2012 at the United Kingdom Intellectual Property Office and priority application no. 61/663697 was filled on 25 June 2012 at the United States Patent and Trademark Office, and for which a PCT international application PCT/EP2013/063148 was filled on 24 June 2013, designating the United States of America.

WHEREAS GLAXOSMITHKLINE BIOLOGICALS S.A., a company incorporated in Belgium, whose registered office is at rue de l'Institut 89, B-1330 Rixensart, Belgium, is desirous of acquiring the whole right, title and interest in and to the invention, and in and to any applications for the invention 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 inventors, hereby confirm the ownership by GLAXOSMITHKLINE BIOLOGICALS S.A. of the invention 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 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 to the application based on the law of Belgium), I/we the inventor(s) nevertheless hereby assign and transfer such ownership right, title and interest in and to the invention and to the application, including the right to claim priority from the application in respect of any subsequent applications, to GLAXOSMITHKLINE BIOLOGICALS S.A. in all countries, including the United States of America, its territories and possessions;

AND I/we, the inventors, hereby assign and transfer to **GLAXOSMITHKLINE BIOLOGICALS S.A.**, my/our whole right title and interest in and to the invention and the application, 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)

hereby authorise and request any patent arising therefrom, in all countries, including the United States, its territories and passessions, be issued to GLAXOSMITHKLINE BIOLOGICALS S.A..

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 BIOLOGICALS S.A., 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 said GLAXOSMITHKLINE BIOLOGICALS S.A., its successors and assigns, the whole right, title and interest in and to the invention hereby assigned and transferred in all countries, including the United States of America, its territories and possessions.

IN WITNESS WHEREOF, and with effect from 25 Jun 2012, I/we the inventors and the Attorney & Authorised Official of **GLAXOSMITHKLINE BIOLOGICALS S.A.** have hereunto set my/our respective hand(s).

Inventor Name	Signature	Date
Philippe Marc Helene DEHOTTAY:		04 14-214
Michael Lanero FIDALGO:		
Dominique JANSSENS:		12/22/22/3
Marc Roger Fernand ORVAL:		C \$65,709
SIGNED by MAK(<u>ASTING WITTERN</u>	As the
	AXOSMITHKLINE BIOLOGICALS S	
Signature ·	Date: <u>24 925</u>	<u> 2634</u>

PATENT REEL: 041765 FRAME: 0630

RECORDED: 03/28/2017