# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2862553

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
MELISSA DUMBLE	10/26/2010
RAKESH KUMAR	10/20/2010
SYLVIE LAQUERRE	10/20/2010
PETER LEBOWITZ	11/21/2010

### **RECEIVING PARTY DATA**

Name:	GLAXOSMITHKLINE LLC
Street Address:	5 CRESCENT DRIVE
City:	PHILADELPHIA
State/Country:	PENNSYLVANIA
Postal Code:	19112

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	14197421

#### **CORRESPONDENCE DATA**

**Fax Number:** (919)483-7977

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.

Phone: 919-483-2370
Email: usciprtp@gsk.com
Correspondent Name: GLAXOSMITHKLINE

Address Line 1: FIVE MOORE DRIVE, PO BOX 13398

Address Line 2: BIDE C.1111.2F

Address Line 4: RESEARCH TRIANGLE PA, NORTH CAROLINA 27709

ATTORNEY DOCKET NUMBER:	PR63967C1US (JSY/VP)
NAME OF SUBMITTER:	VALERIE L. PHILLIPS
SIGNATURE:	/Valerie L. Phillips/
DATE SIGNED:	05/20/2014

**Total Attachments: 8** 

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PATENT 502815959 REEL: 032930 FRAME: 0388

WHEREAS, I/we Melissa DUMBLE, a citizen of Australia, residing at Collegeville, Pennsylvania; Rakesh KUMAR; a citizen of the United States of America, residing at Collegeville, Pennsylvania; Sylvie LAQUERRE a citizen of the United States of America, residing at Collegeville, Pennsylvania, and Peter LEBOWITZ, a citizen of the United States of America, residing at Collegeville, Pennsylvania, has/have invented or discovered certain improvements in COMBINATION hereinafter referred to as said invention and improvements for which a priority application 61/252,213 was filed on 16 October 2009 in the United States Patent and Trademark Office and for which a PCT international application PCT/US2010/052808 filed October 15, 2010 designating the United States of America and naming assignor as inventor, and in the United States only applicant/inventor.

WHEREAS, GLAXOSMITHKLINE LLC, a corporation organized and existing under and by virtue of the laws of the State of Delaware and having its principal place of business at One Franklin Plaza, 200 North 16th Street, Philadelphia, Pennsylvania 19102, USA, is desirous of acquiring the whole right, title and interest in and to said invention and improvements and said application, and in and to any Letters Patent to be obtained therefor, in the United States, its territories and possessions, and in and to any applications for said invention and improvements and any Letters Patent to be obtained therefor, in all countries other than the United States, its territories and possessions;

NOW, THEREFORE, to all whom it may concern, be it known that I/we Melissa DUMBLE, Rakesh KUMAR, Sylvie LAQUERRE, and Peter LEBOWITZ for good and valuable consideration unto me/us moving, the receipt whereof is hereby acknowledged, have sold, assigned and transferred, and by these presents do sell, assign and transfer my/our whole right, title and interest in and to said invention and improvements to said GLAXOSMITHKLINE LLC, throughout the United States of America, its territories and possessions, and in and to said application and any extensions, reissues, continuations, continuations-in-part, and any divisions thereof, and in and to any and all Letters Patent of the United States of America;

AND, my/our whole right, title and interest in and to said invention and improvements to

GLAXOSMITHKLINE LLC, in all other countries throughout the world, and in and to any applications in

said other countries, and continuations-in-part, patents of addition, revalidation patents, patents of importation,

registrations, and any renewals, extensions and divisions thereof, and in and to any and all Letters Patent of said

all other countries which may be granted on said invention and improvements including any priority rights under the International Convention.

AND, I/we do hereby authorize and request the issue of any Letters Patent in the respective areas referred to, to said GLAXOSMITHKLINE LLC, as assignee of my/our whole right, title and interest in and to the same for the sole use and behalf of the said assignees, their successors and assigns as their interests appear herein;

AND, I/we warrant that I/we have not knowingly conveyed to others any right in said invention, improvements, applications or patents or any license to use the same or to make, use or sell anything embodying or utilizing said invention and improvements and that I/we have good right to assign the same to

#### GLAXOSMITHKLINE LLC,

AND, I/we the Melissa DUMBLE, Rakesh KUMAR, Sylvie LAQUERRE, and Peter LEBOWITZ for the consideration aforesaid, do hereby agree that I/we or my/our executors or legal representatives, will provide information and make, execute and deliver any and all other instruments in writing, and any and all further acts, application papers, affidavits, assignments and other documents which may be necessary or desirable to more effectually secure to and vest in said GLAXOSMITHKLINE LLC, their successors and assigns, the whole right, title and interest in and to the said invention and improvements, applications, Letters Patent, rights, title and interest hereby sold, assigned and conveyed, or intended so to be. This assignment should be deemed effective as of October 16, 2009.

IN WITNESS WHEREOF, I/we have hereunto set my/our hand(s) and affixed my/our seal(s) on the date(s) indicated below.

The Gel	10/26/2010
Inventor: Melissa DUMBLE	Date
Inventor; Rakesh KUMAR	Date
Inventor: Sylvie LAQUERRE	Date
Inventor: Peter LEBOWITZ	Date

WHEREAS, I/we Melissa DUMBLE, a citizen of Australia, residing at Collegeville, Pennsylvania; Rakesh KUMAR; a citizen of the United States of America, residing at Collegeville, Pennsylvania; Sylvie LAQUERRE a citizen of the United States of America, residing at Collegeville, Pennsylvania, and Peter LEBOWITZ, a citizen of the United States of America, residing at Collegeville, Pennsylvania, has/have invented or discovered certain improvements in COMBINATION hereinafter referred to as said invention and improvements for which a priority application 61/252,213 was filed on 16 October 2009 in the United States Patent and Trademark Office and for which a PCT international application PCT/US2010/052808 filed October 15, 2010 designating the United States of America and naming assignor as inventor, and in the United States only applicant/inventor.

WHEREAS, GLAXOSMITHKLINE LLC, a corporation organized and existing under and by virtue of the laws of the State of Delaware and having its principal place of business at One Franklin Plaza, 200 North 16<sup>th</sup> Street, Philadelphia, Pennsylvania 19102, USA, is desirous of acquiring the whole right, title and interest in and to said invention and improvements and said application, and in and to any Letters Patent to be obtained therefor, in the United States, its territories and possessions, and in and to any applications for said invention and improvements and any Letters Patent to be obtained therefor, in all countries other than the United States, its territories and possessions;

NOW, THEREFORE, to all whom it may concern, be it known that I/we Melissa DUMBLE, Rakesh KUMAR, Sylvie LAQUERRE, and Peter LEBOWITZ for good and valuable consideration unto me/us moving, the receipt whereof is hereby acknowledged, have sold, assigned and transferred, and by these presents do sell, assign and transfer my/our whole right, title and interest in and to said invention and improvements to said GLAXOSMITHKLINE LLC, throughout the United States of America, its territories and possessions, and in and to said application and any extensions, reissues, continuations, continuations-in-part, and any divisions thereof, and in and to any and all Leiters Patent of the United States of America;

AND, my/our whole right, title and interest in and to said invention and improvements to

GLAXOSMITHKLINE LLC, in all other countries throughout the world, and in and to any applications in
said other countries, and continuations-in-part, patents of addition, revalidation patents, patents of importation,
registrations, and any renewals, extensions and divisions thereof, and in and to any and all Letters Patent of said

all other countries which may be granted on said invention and improvements including any priority rights under the International Convention.

AND, I/we do hereby authorize and request the issue of any Letters Patent in the respective areas referred to, to said GLAXOSMITHKLINE LLC, as assignee of my/our whole right, title and interest in and to the same for the sole use and behalf of the said assignees, their successors and assigns as their interests appear herein;

AND, I/we warrant that I/we have not knowingly conveyed to others any right in said invention, improvements, applications or patents or any license to use the same or to make, use or self anything embodying or utilizing said invention and improvements and that I/we have good right to assign the same to GLAXOSMITHKLINE LLC,

AND, I/we the Melissa DUMBLE, Rakesh KUMAR, Sylvie LAQUERRE, and Peter LEBOWITZ for the consideration aforesaid, do hereby agree that I/we or my/our executors or legal representatives, will provide information and make, execute and deliver any and all other instruments in writing, and any and all further acts, application papers, affidavits, assignments and other documents which may be necessary or desirable to more effectually secure to and vest in said GLAXOSMITHKLINE LLC, their successors and assigns, the whole right, title and interest in and to the said invention and improvements, applications, Letters Patent, rights, title and interest hereby sold, assigned and conveyed, or intended so to be. This assignment should be deemed effective as of October 16, 2009.

IN WITNESS WHEREOF, I/we have hereunto set my/our hand(s) and affixed my/our seal(s) on the date(s) indicated below.

Inventor: Melissa DUMBLE	Date	
Careed kings	20 Oct, 2010	
Inventor: Rakesh KUMAR	Date	
Inventor: Sylvie LAQUERRE	Date	
Inventor: Peter LEBOWITZ	Date	

WHEREAS, I/we Melissa DUMBLE, a citizen of Australia, residing at Collegeville, Pennsylvania; Rakesh KUMAR; a citizen of the United States of America, residing at Collegeville, Pennsylvania; Sylvie LAQUERRE a citizen of the United States of America, residing at Collegeville, Pennsylvania, and Peter LEBOWITZ, a citizen of the United States of America, residing at Collegeville, Pennsylvania, has/have invented or discovered certain improvements in COMBINATION hereinafter referred to as said invention and improvements for which a priority application 61/252,213 was filed on 16 October 2009 in the United States Patent and Trademark Office and for which a PCT international application PCT/US2010/052808 filed October 15, 2010 designating the United States of America and naming assignor as inventor, and in the United States only applicant/inventor.

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NOW, THEREFORE, to all whom it may concern, be it known that I/we Melissa DUMBLE, Rakesh KUMAR, Sylvie LAQUERRE, and Peter LEBOWITZ for good and valuable consideration unto me/us moving, the receipt whereof is hereby acknowledged, have sold, assigned and transferred, and by these presents do sell, assign and transfer my/our whole right, title and interest in and to said invention and improvements to said GLAXOSMITHKLINE LLC, throughout the United States of America, its territories and possessions, and in and to said application and any extensions, reissues, continuations, continuations-in-part, and any divisions thereof, and in and to any and all Letters Patent of the United States of America;

AND, my/our whole right, title and interest in and to said invention and improvements to

GLAXOSMITHKLINE LLC, in all other countries throughout the world, and in and to any applications in
said other countries, and continuations-in-part, patents of addition, revalidation patents, patents of importation,
registrations, and any renewals, extensions and divisions thereof, and in and to any and all Letters Patent of said

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all other countries which may be granted on said invention and improvements including any priority rights

under the International Convention,

AND, I/we do hereby authorize and request the issue of any Letters Patent in the respective areas

referred to, to said GLAXOSMITHKLINE LLC, as assignee of my/our whole right, title and interest in and to

the same for the sole use and behalf of the said assignees, their successors and assigns as their interests appear

herein;

AND, I/we warrant that I/we have not knowingly conveyed to others any right in said invention,

improvements, applications or patents or any license to use the same or to make, use or sell anything embodying

or utilizing said invention and improvements and that I/we have good right to assign the same to

GLAXOSMITHKLINE LLC,

AND, I/we the Melissa DUMBLE, Rakesh KUMAR, Sylvie LAQUERRE, and Peter LEBOWITZ for

the consideration aforesaid, do hereby agree that I/we or my/our executors or legal representatives, will provide

information and make, execute and deliver any and all other instruments in writing, and any and all further acts,

application papers, affidavits, assignments and other documents which may be necessary or desirable to more

effectually secure to and vest in said GLAXOSMITHKLINE LLC, their successors and assigns, the whole

right, title and interest in and to the said invention and improvements, applications, Letters Patent, rights, title

and interest hereby sold, assigned and conveyed, or intended so to be. This assignment should be deemed

effective as of October 16, 2009.

IN WITNESS WHEREOF, I/we have hereunto set my/our hand(s) and affixed my/our seal(s) on the

date(s) indicated below.

Inventor: Melissa DUMBLE

Date

Inventor: Rakesh KUMAR

Date

Inventor: Peter LEBOWITZ

Date

WHEREAS, I/we Melissa DUMBLE, a citizen of Australia, residing at Collegeville, Pennsylvania; Rakesh KUMAR; a citizen of the United States of America, residing at Collegeville, Pennsylvania; Sylvie LAQUERRE a citizen of the United States of America, residing at Collegeville, Pennsylvania, and Peter LEBOWITZ, a citizen of the United States of America, residing at Collegeville, Pennsylvania, has/have invented or discovered certain improvements in COMBINATION hereinafter referred to as said invention and improvements for which a priority application 61/252,213 was filed on 16 October 2009 in the United States Patent and Trademark Office and for which a PCT international application PCT/US2010/052808 filed October 15, 2010 designating the United States of America and naming assignor as inventor, and in the United States only applicant/inventor.

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NOW, THEREFORE, to all whom it may concern, be it known that I/we Melissa DUMBLE, Rakesh KUMAR, Sylvie LAQUERRE, and Peter LEBOWITZ for good and valuable consideration unto me/us moving, the receipt whereof is hereby acknowledged, have sold, assigned and transferred, and by these presents do sell, assign and transfer my/our whole right, title and interest in and to said invention and improvements to said GLAXOSMITHKLINE LLC, throughout the United States of America, its territories and possessions, and in and to said application and any extensions, reissues, continuations, continuations-in-part, and any divisions thereof, and in and to any and all Letters Patent of the United States of America:

AND, my/our whole right, title and interest in and to said invention and improvements to

GLAXOSMITHKLINE LLC, in all other countries throughout the world, and in and to any applications in
said other countries, and continuations-in-part, patents of addition, revalidation patents, patents of importation,
registrations, and any renewals, extensions and divisions thereof, and in and to any and all Letters Patent of said

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all other countries which may be granted on said invention and improvements including any priority rights

under the International Convention.

AND, I/we do hereby authorize and request the issue of any Letters Patent in the respective areas

referred to, to said GLAXOSMITHKLINE LLC, as assignee of my/our whole right, title and interest in and to

the same for the sole use and behalf of the said assignees, their successors and assigns as their interests appear

herein;

AND, I/we warrant that I/we have not knowingly conveyed to others any right in said invention,

Improvements, applications or patents or any license to use the same or to make, use or sell anything embodying

or utilizing said invention and improvements and that I/we have good right to assign the same to

GLAXOSMITHKLINE LLC,

AND, I/we Melissa DUMBLE, Rakesh KUMAR, Sylvie LAQUERRE and Peter LEBOWITZ for the

consideration aforesaid, do hereby agree that I/we or my/our executors or legal representatives, will provide

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application papers, affidavits, assignments and other documents which may be necessary or desirable to more

effectually secure to and vest in said GLAXOSMITHKLINE LLC, their successors and assigns, the whole

right, title and interest in and to the said invention and improvements, applications, Letters Patent, rights, title

and interest hereby sold, assigned and conveyed, or intended so to be. This assignment should be deemed

effective as of October 16, 2009.

IN WITNESS WHEREOF, I/we have hereunto set my/our hand(s) and affixed my/our seal(s) on the

date(s) indicated below.

Date Inventor: Melissa DUMBLE

Date

Inventor: Rakesh KUMAR

Date

**PATENT** REEL: 032930 FRAME: 0397

RECORDED: 05/20/2014