

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Paul John Turner</td><td>09/22/2007</td></tr><tr><td>Paul Kenneth Rand</td><td>09/25/2007</td></tr><tr><td>Jerome Spaargaren</td><td>10/19/2007</td></tr><tr><td>Derk Visser</td><td>10/26/2007</td></tr></tbody></table>	Name	Execution Date	Paul John Turner	09/22/2007	Paul Kenneth Rand	09/25/2007	Jerome Spaargaren	10/19/2007	Derk Visser	10/26/2007	
Name	Execution Date										
Paul John Turner	09/22/2007										
Paul Kenneth Rand	09/25/2007										
Jerome Spaargaren	10/19/2007										
Derk Visser	10/26/2007										
RECEIVING PARTY DATA											
Name:	Glaxo Group Limited										
Street Address:	Glaxo Wellcome House, Berkeley Avenue										
City:	Greenford, Middlesex										
State/Country:	UNITED KINGDOM										
Postal Code:	UB6 0NN										
PROPERTY NUMBERS Total: 1											
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>12300799</td></tr></tbody></table>	Property Type	Number	Application Number:	12300799							
Property Type	Number										
Application Number:	12300799										
CORRESPONDENCE DATA											
Fax Number:	(919)483-7977										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	9194832370										
Email:	yolanda.x.vines@gsk.com										
Correspondent Name:	GlaxoSmithKline, Corp Intellectual Prop										
Address Line 1:	Five Moore Drive, PO Box 13398										
Address Line 2:	MAI B473										
Address Line 4:	Research Triangle Pa, NORTH CAROLINA 27709-3398										
ATTORNEY DOCKET NUMBER:	PB61361/DSW										
NAME OF SUBMITTER:	Dwight S. Walker										
Total Attachments: 13											

CH \$40.00 12300799

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PATENT
REEL: 021888 FRAME: 0951

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**RECORDATION FORM COVER SHEET
PATENTS ONLY**

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)

Paul Kenneth RAND
Jerome SPAARGAREN
Paul John TURNER
Derk VISSER

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance/Execution Date(s):

Execution Date(s) September 22, 2007

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Joint Research Agreement
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other _____

2. Name and address of receiving party(ies)

Name: Glaxo Group Limited

Internal Address: Glaxo Wellcome House

Street Address: Berkeley Avenue

City: Greenford, Middlesex

State: _____

Country: UK

Zip: UB6 0NN

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application or patent number(s):

☐ This document is being filed together with a new application.

A. Patent Application No.(s)

12/300,799

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address to whom correspondence concerning document should be mailed:

Name: GlaxoSmithKline

Internal Address: Corporate Intellectual Property

MAI - B482

Street Address: Five Moore Drive

P.O. Box 13398

City: Research Triangle Park

State: NC

Zip: 27709-3398

Phone Number: 919-483-1749

Fax Number: 919-483-7977

Email Address: yolanda.x.vines@gsk.com

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00

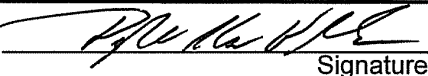
- ☒ Authorized to be charged to deposit account
☐ Enclosed
☐ None required (government interest not affecting title)

8. Payment Information

Deposit Account Number 07-1392

Authorized User Name Yolanda A. Vines

9. Signature:


Signature

11/21/2008
Date

Dwight S. Walker
Name of Person Signing

Total number of pages including cover
sheet, attachments, and documents:

13

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

**PATENT
REEL: 021888 FRAME: 0953**

ASSIGNMENT

WHEREAS I/WE, **Paul Kenneth RAND of Ware, Hertfordshire, United Kingdom** (hereinafter called "the inventor(s)") have invented or discovered "**DISPENSING DEVICE**" (hereinafter called "the invention") for which a patent application No. **0610775.9** was filed on **31 May 2006** in the United Kingdom and for which an international patent application is now being filed designating the United States of America. I/we hereby authorize and request that the filing date and PCT International application, when known, be inserted here in parentheses;

PCT/EP2007/055055 filed 24 May 2007

WHEREAS the invention, being made in the course of my employment, belongs to my/our employer, namely **GLAXOSMITHKLINE SERVICES UNLIMITED** a company incorporated in England whose registered address is 980 Great West Road, Brentford, Middlesex TW8 9GS, England, and

WHEREAS GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT LIMITED, a company incorporated in England whose registered address is 980 Great West Road, Brentford, Middlesex TW8 9GS, England, is desirous of acquiring from **GLAXOSMITHKLINE SERVICES UNLIMITED** the whole right, title and interest in and to the invention and the application, and

GLAXOSMITHKLINE SERVICES UNLIMITED and **GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT LIMITED** have authorised and requested my/our making the application, and

WHEREAS GLAXO GROUP LIMITED a company organised and existing under and by virtue of the laws of England and having its principal place of business at Glaxo Wellcome House, Berkeley Avenue, Greenford, Middlesex, UB6 0NN, England, is desirous of acquiring from **GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT LIMITED** the whole right, title and interest in and to the invention and the application in respect of the United States of America;

NOW, THEREFORE, to all whom it may concern be it known that I/we, the inventor(s), hereby confirm the ownership by **GLAXOSMITHKLINE SERVICES UNLIMITED** 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 the invention and the application (which I/we do not believe to be the case and claim no ownership right, title or interest in the invention and the application based on the law of the United Kingdom), I/we the inventor(s) nevertheless hereby assign and transfer such ownership right, title and interest in and to the invention and the application to **GLAXOSMITHKLINE SERVICES UNLIMITED**. **GLAXOSMITHKLINE SERVICES UNLIMITED** in turn hereby assigns and transfers to **GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT LIMITED** its whole right, title and interest in and to the invention and the application. **GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT LIMITED** in turn hereby assigns and transfers to **GLAXO GROUP LIMITED** its whole right, title and interest in and throughout the United States of America in and to the invention and the application and in and to any priority rights in respect of the invention and the application and in and to any divisional application, continuation or continuation in part application thereof, and in and to any extension or re-issue thereof, and I/we the inventor(s) and **GLAXOSMITHKLINE SERVICES UNLIMITED** and **GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT LIMITED** hereby authorise and request any patent arising therefrom in the United States of America be issued to **GLAXO GROUP LIMITED**.

AND GLAXOSMITHKLINE SERVICES UNLIMITED and **GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT LIMITED** hereby, and I/we the inventor(s) for myself/ourselves and my/our respective executors and legal representatives hereby, agree 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 **GLAXO GROUP LIMITED**, its successors and assigns, the whole right, title and interest in and to the invention and the application hereby assigned and transferred in respect of the United States of America.

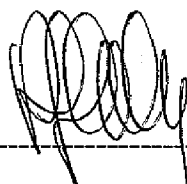
IN WITNESS whereof and with effect from 31 May 2006 the inventor(s) and Peter John GIDDINGS as Attorney of both GLAXOSMITHKLINE SERVICES UNLIMITED and GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT LIMITED by virtue of Powers of Attorney granted by GLAXOSMITHKLINE SERVICES UNLIMITED and GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT LIMITED respectively have hereunto set their respective hands.



SIGNED by Paul Kenneth RAND

Date: 25th Sept. 2007.

SIGNED by Peter John GIDDINGS as the Attorney of each of GLAXOSMITHKLINE SERVICES UNLIMITED and GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT LIMITED:



Date: 03 OCT 2007

ASSIGNMENT

WHEREAS I, **JEROME SPAARGAREN**, of **EIP**, Fairfax House, 15 Fulwood Place, London WC1V 6HU, United Kingdom (hereinafter called "the inventor") have invented or discovered subject matter concerning a **DISPENSING DEVICE** (hereinafter called "the invention") for which UK patent application No. **0 610 775.9** was filed on **31 May 2006** and for which (i) an International (PCT) patent application designating *inter alia* the United States of America, and (ii) optionally at least one national patent application, is to be filed claiming priority from the UK patent application (all the aforementioned applications hereinafter called "the applications");

WHEREAS the whole right, title and interest of the inventor in and to the invention and the applications belongs to **EIP** by virtue of a contract of employment and operation of United Kingdom law;

WHEREAS **EIP** acknowledges its agreement to the filing of the applications;

WHEREAS WE, **GLAXO GROUP LIMITED**, a company incorporated in England and Wales whose registered address is Glaxo Wellcome House, Berkeley Avenue, Greenford, Middlesex UB6 0NN, England are desirous of acquiring from **EIP** its whole right, title and interest in and to the invention and the applications, including in respect of the United States of America; and

NOW THEREFORE, to all whom it may concern be it known that I the inventor hereby confirm the ownership by **EIP** of my whole right, title and interest in and to the invention and the applications and if, under the law of the United States of America or any other jurisdiction I the inventor have any ownership right, title and interest in and to the invention and the applications (which I do not believe to be the case and claim no ownership right, title or interest in and to the invention and the applications), I the inventor nevertheless hereby assign and transfer such ownership right, title and interest in and to the invention and the applications to **EIP**.

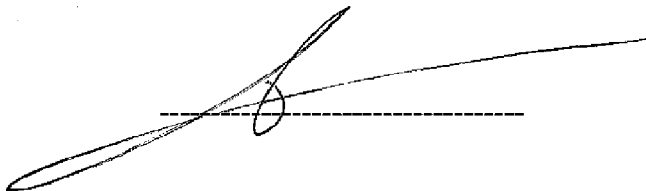
EIP hereby assigns and transfers to **GLAXO GROUP LIMITED** its whole right, title and interest in and to the invention and the applications, including without limitation in and throughout the United States of America; in and to any priority rights in respect of the invention and the applications; in and to any counterparts derived from the applications (including any PCT national or regional phase application, any divisional application or any continuation or continuation-in-part application), including in the

United States of America; and in and to any patent or other registered intellectual property right in the world granted for the invention or arising from the applications and any counterpart (including any extension or re-issue), including in the United States of America.

EIP and I the inventor for myself and my executors and legal representatives hereby acknowledge that these assignments are made following receipt of good consideration the sufficiency of which is confirmed, and agree 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 **GLAXO GROUP LIMITED** its successors and assigns, the whole right, title and interest in and to the invention and the applications hereby assigned and transferred in respect of *inter alia* the United States of America.

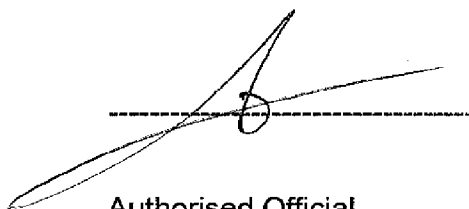
IN WITNESS whereof and with effect from **31 May 2006** the inventor, and **EIP** and **GLAXO GROUP LIMITED** by virtue of Powers of Attorney granted to its duly authorised officers, have hereunto set their respective hands.

(1) **SIGNED by JEROME SPAARGAREN:**



Date: 17/10/7

(2) **SIGNED by EIP:**



Date: 19/10/7

Authorised Official

Name J. SPAARGAREN
Capacity DIRECTOR

(3) SIGNED by GLAXO GROUP LIMITED:



Date: 08 NOV 2007

Authorised Official

Name Peter John GIDDINGS
Capacity Attorney and Authorised Official

ASSIGNMENT

WHEREAS I, **PAUL JOHN TURNER**, of **PAUL TURNER PARTNERSHIP LIMITED**, The Cottage, Church Street, Wistow, Huntingdon, Cambridgeshire PE28 2QE, United Kingdom (hereinafter called "the inventor") have invented or discovered subject matter concerning a **DISPENSING DEVICE** (hereinafter called "the invention") for which UK patent application No. **0 610 775.9** was filed on **31 May 2006** and for which (i) an International (PCT) patent application designating *inter alia* the United States of America, and (ii) optionally at least one national patent application, is to be filed claiming priority from the UK patent application (all the aforementioned applications hereinafter called "the applications");

WHEREAS the whole right, title and interest of the inventor in and to the invention and the applications belongs to **PAUL TURNER PARTNERSHIP LIMITED** by virtue of a contract of employment and operation of United Kingdom law;

WHEREAS **PAUL TURNER PARTNERSHIP LIMITED** acknowledges its agreement to the filing of the applications;

WHEREAS WE, **GLAXO GROUP LIMITED**, a company incorporated in England and Wales whose registered address is Glaxo Wellcome House, Berkeley Avenue, Greenford, Middlesex UB6 0NN, England are desirous of acquiring from **PAUL TURNER PARTNERSHIP LIMITED** its whole right, title and interest in and to the invention and the applications, including in respect of the United States of America; and

NOW THEREFORE, to all whom it may concern be it known that I the inventor hereby confirm the ownership by **PAUL TURNER PARTNERSHIP LIMITED** of my whole right, title and interest in and to the invention and the applications and if, under the law of the United States of America or any other jurisdiction I the inventor have any ownership right, title and interest in and to the invention and the applications (which I do not believe to be the case and claim no ownership right, title or interest in and to the invention and the applications), I the inventor nevertheless hereby assign and transfer such ownership right, title and interest in and to the invention and the applications to **PAUL TURNER PARTNERSHIP LIMITED**.

PAUL TURNER PARTNERSHIP LIMITED hereby assigns and transfers to **GLAXO GROUP LIMITED** its whole right, title and interest in and to the invention and the

applications, including without limitation in and throughout the United States of America; in and to any priority rights in respect of the invention and the applications; in and to any counterparts derived from the applications (including any PCT national or regional phase application, any divisional application or any continuation or continuation-in-part application), including in the United States of America; and in and to any patent or other registered intellectual property right in the world granted for the invention or arising from the applications and any counterpart (including any extension or re-issue), including in the United States of America.

PAUL TURNER PARTNERSHIP LIMITED and I the inventor for myself and my executors and legal representatives hereby acknowledge that these assignments are made following receipt of good consideration the sufficiency of which is confirmed, and agree 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 **GLAXO GROUP LIMITED** its successors and assigns, the whole right, title and interest in and to the invention and the applications hereby assigned and transferred in respect of *inter alia* the United States of America.

IN WITNESS whereof and with effect from **31 May 2006** the inventor, and **PAUL TURNER PARTNERSHIP LIMITED** and **GLAXO GROUP LIMITED** by virtue of Powers of Attorney granted to its duly authorised officers, have hereunto set their respective hands.

(1) **SIGNED by Paul John Turner:**

X P. J. Turner Date: X 22/9/07

(2) **SIGNED by PAUL TURNER PARTNERSHIP LIMITED:**

X P. J. Turner Date: X 22/9/07
 Authorised Official
 Name X PAUL TURNER (Authorised Official to print name)
 Capacity X DIRECTOR e.g. Director.

PB61361

(3) SIGNED by GLAXO GROUP LIMITED:

A handwritten signature in dark ink, consisting of several loops and a trailing flourish, positioned above a horizontal line.

22 OCT 2007

Date: _____

Authorised Official

Name Peter John GIDDINGS

Capacity Attorney and Authorised Official

ASSIGNMENT

WHEREAS I, **DERK VISSER**, of **EIP**, Fairfax House, 15 Fulwood Place, London WC1V 6HU, United Kingdom (hereinafter called "the inventor") have invented or discovered subject matter concerning a **DISPENSING DEVICE** (hereinafter called "the invention") for which UK patent application No. **0 610 775.9** was filed on **31 May 2006** and for which (i) an International (PCT) patent application designating *inter alia* the United States of America, and (ii) optionally at least one national patent application, is to be filed claiming priority from the UK patent application (all the aforementioned applications hereinafter called "the applications");

WHEREAS the whole right, title and interest of the inventor in and to the invention and the applications belongs to **EIP** by virtue of a contract of employment and operation of United Kingdom law;

WHEREAS **EIP** acknowledges its agreement to the filing of the applications;

WHEREAS WE, **GLAXO GROUP LIMITED**, a company incorporated in England and Wales whose registered address is Glaxo Wellcome House, Berkeley Avenue, Greenford, Middlesex UB6 0NN, England are desirous of acquiring from **EIP** its whole right, title and interest in and to the invention and the applications, including in respect of the United States of America; and

NOW THEREFORE, to all whom it may concern be it known that I the inventor hereby confirm the ownership by **EIP** of my whole right, title and interest in and to the invention and the applications and if, under the law of the United States of America or any other jurisdiction I the inventor have any ownership right, title and interest in and to the invention and the applications (which I do not believe to be the case and claim no ownership right, title or interest in and to the invention and the applications), I the inventor nevertheless hereby assign and transfer such ownership right, title and interest in and to the invention and the applications to **EIP**.

EIP hereby assigns and transfers to **GLAXO GROUP LIMITED** its whole right, title and interest in and to the invention and the applications, including without limitation in and throughout the United States of America; in and to any priority rights in respect of the invention and the applications; in and to any counterparts derived from the applications (including any PCT national or regional phase application, any divisional

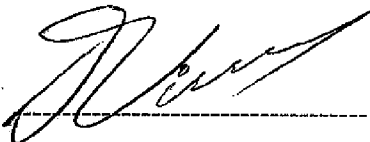
PATENT

application or any continuation or continuation-in-part application), including in the United States of America; and in and to any patent or other registered intellectual property right in the world granted for the invention or arising from the applications and any counterpart (including any extension or re-issue), including in the United States of America.

EIP and I the inventor for myself and my executors and legal representatives hereby acknowledge that these assignments are made following receipt of good consideration the sufficiency of which is confirmed, and agree 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 **GLAXO GROUP LIMITED** its successors and assigns, the whole right, title and interest in and to the invention and the applications hereby assigned and transferred in respect of *inter alia* the United States of America.

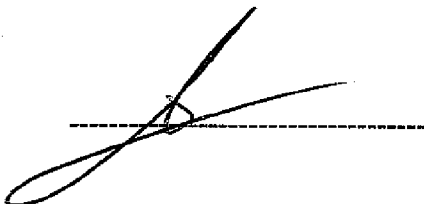
IN WITNESS whereof and with effect from **31 May 2006** the inventor, and **EIP** and **GLAXO GROUP LIMITED** by virtue of Powers of Attorney granted to its duly authorised officers, have hereunto set their respective hands.

(1) **SIGNED by Derk Visser:**



Date: 26-10-07

(2) **SIGNED by EIP:**



Date: 29/10/07

Authorised Official

Name J. SPAARGAREN

Capacity DIRECTOR

PB61361

(3) SIGNED by GLAXO GROUP LIMITED:

A handwritten signature in dark ink, appearing to read 'Peter John Giddings', is written over a horizontal dashed line.

Date: 08 NOV 2007

Authorised Official

Name Peter John GIDDINGS
Capacity Attorney and Authorised Official

PATENT

RECORDED: 11/25/2008

REEL: 021888 FRAME: 0965