PATENT ASSIGNMENT

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SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Jonathan Lewis TELFER	02/21/2011
Mark Richard REDFERN	02/21/2011
Michael Joseph LACY	02/15/2011

RECEIVING PARTY DATA

Name:	Emergent Product Development UK Limited
Street Address:	540-545 Eskdale Road Winnersh Triangle
City:	Wokingham, Berkshire
State/Country:	UNITED KINGDOM
Postal Code:	RG41 5TU

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12999246

CORRESPONDENCE DATA

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Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

via US Mail.

Correspondent Name: Alyson C. Fuller
Address Line 1: 777 6th Street, N.W.

Address Line 2: Suite 1100

Address Line 4: Washington, DISTRICT OF COLUMBIA 20001-3723

ATTORNEY DOCKET NUMBER:	EMER-008/01US 309814-2069
NAME OF SUBMITTER:	Lynette F. Clark

Total Attachments: 5

PATENT REEL: 027442 FRAME: 0099 \$40.00 129

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ASSIGNMENT

Jonathan Lewis TELFER, residing at 540-545 Eskdale Road Winnersh Triangle, Wokingham, Berkshire, Great Britain RG41 5TU, Mark Richard REDFERN, residing at 540-545 Eskdale Road Winnersh Triangle, Wokingham, Berkshire, Great Britain RG41 5TU, and Michael Josph LACY, residing at 300 Professional Drive, Gaithersburg, MD 20879 (each referred to as "Assignor") have made an invention(s) (the "Invention(s)") set forth in an application for patent of the United States, entitled **SALMONELLA VECTORED VACCINES AGAINST CHLAMYDIA AND METHODS OF USE**, and which is a:

(1)	provision	al application		
	(a)	to be filed herewith; or		
	(b)	bearing Application No.	, and filed on	; or
(2)	⊠ non-provi	sional application		
•	(a)	to be filed herewith; or		
	(b)	bearing Application No. 1	2/999,246, and fi	led on
		December 15, 2010.		

WHEREAS, EMERGENT PRODUCT DEVELOPMENT UK LIMITED, a corporation having its principal place of business at 540-545 Eskdale Road Winnersh Triangle, Wokingham, Berkshire, Great Britain, RG41 5TU (the "Assignee"), is desirous of acquiring the entire right, title, and interest in: the Invention; the application for patent identified in paragraph (1) or (2); the right to file applications for patent of the United States or other countries on the Invention; any application for patent of the United States or other countries claiming priority to these application; any provisional or other right to recover damages, including royalties, for prior infringements of these applications; and any patent of the United States or other countries that may be granted therefor or thereon.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, and to the extent that the Assignor has not done so already via a prior agreement with the Assignee, or if the Assignor has already done so via a prior agreement with the Assignee then in confirmation of any obligation to do so in said prior agreement, the Assignor has sold, assigned, transferred, and set over, and by these presents does sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns, the Assignor's entire right, title, and interest in:

- (a) the Invention(s);
- (b) the application for patent identified in paragraph (1) or (2);
- (c) the right to file applications for patent of the United States or other countries on the Invention(s), including all rights under the Paris Convention for the Protection of Industrial Property and under the Patent Cooperation Treaty;

- (d) any application(s) for patent of the United States or other countries claiming the Invention(s);
- (e) any application(s) for patent of the United States or other countries claiming priority to the application for patent identified in paragraph (1) or (2) or any application(s) for patent claiming the Invention(s), including any division(s), continuation(s), and continuation(s)-in-part; and
- (f) any provisional or other right to recover damages, including royalties, for prior infringements of any application for patent identified in the preceding paragraphs (b)-(e); and
- (g) any patent(s) of the United States or other countries that may be granted for or on any application for patent identified in the preceding paragraphs (b) (e), including any reissue(s) and extension(s) of said patent(s).

The above-granted rights, titles, and interests are to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, as fully and entirely as the same would have been held and enjoyed by the Assignor had this sale and assignment not been made.

The Assignor hereby represents to the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, or if applicable, at such time said prior agreement was executed, the Assignor is a lawful owner of an undivided interest in the entire right, title, and interest in and to the Invention(s), that the Invention(s) are unencumbered, except, if applicable, by obligation to assign in accordance with said prior agreement, and that the Assignor has good and full right and lawful authority to sell and convey the same in the manner set forth herein.

The Assignor hereby covenants and agrees to and with the Assignee, its successors, legal representatives, and assigns, that the Assignor will sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done in connection with any and all proceedings for the procurement, maintenance, enforcement and defense of the Invention(s), said applications, and said patents, including interference proceedings, without charge to the Assignor, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns.

The Assignor hereby authorizes and requests the attorneys of COOLEY LLP to insert in the spaces provided above the filing date, the application number, and the attorney docket number of the application identified in paragraph (1) or (2) when known.

The Assignor hereby requests the Commissioner of Patents to issue said patents of the United States to the Assignee for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

Date: 21 fab 2011 By:	Telfer
	Jonathan Lewis TELFER
State of)	
County of) ss.	
On, before me,	
Notary Public, personally appeared	······································
personally known to me or proved to me on the basis of	satisfactory evidence, to be the
person(s) whose name(s) is/are subscribed to the within	instrument and acknowledged to
me that he/she/they executed the same in his/her/their a	uthorized capacity(ies), and that
by his/her/their signature(s) on the instrument the person	n(s), or the entity upon behalf of
which the person(s) acted, executed the instrument.	
WITNESS my hand and official seal.	
Signature of Notary Public	Place Notary Seal Above
My Commission Expires:	
	in in the second se
witness by D.K.Tyour 21 Feb 11	
wanter of while	
KI TEO 11	

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Date: 21 feb 2011 By: Mark Richard REDFERN
State of)
On
WITNESS my hand and official seal.
Signature of Notary Public Place Notary Seal Above
My Commission Expires:

witness by DATyperon 21 Feb/1

Date: 1516/22/1 By: 1000 Michael Joseph LACY
State of Nary (and) County of Mantganery) On 22/25/2011 , before me, According to Notary Public, personally appeared The land from personally known
Public, personally appeared <u>fit fit and the personally known</u> , personally known to me or proved to me on the basis of satisfactory evidence, to be the person(s) whose name(s)
is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ics), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.
WITNESS my hand and official seal.
De and Willer
Signature of Notary Public Place Notary Seal Above
My Commission Expires: <u>79/15/2012</u>

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