

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT2676616

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>DAVID B. WEINER</td> <td>12/12/2012</td> </tr> </tbody> </table>		Name	Execution Date	DAVID B. WEINER	12/12/2012		
Name	Execution Date						
DAVID B. WEINER	12/12/2012						
RECEIVING PARTY DATA							
Name:	THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA						
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Internal Address:	SUITE 200						
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State/Country:	PENNSYLVANIA						
Postal Code:	19104						
PROPERTY NUMBERS Total: 2							
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>14232048</td> </tr> <tr> <td>PCT Number:</td> <td>US1246422</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14232048	PCT Number:	US1246422
Property Type	Number						
Application Number:	14232048						
PCT Number:	US1246422						
CORRESPONDENCE DATA							
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NAME OF SUBMITTER:	DARRYL PRATCHER						
Signature:	/Darryl Pratcher/						

Date:

01/10/2014

Total Attachments: 2

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46483-6051-00-WO.601478  
11-1314P/Y6344  
PATENT

ASSIGNMENT

WHEREAS, I, David B. WEINER, a citizen of the United States of America, having a mailing address of 717 Beacon Lane, Merion, PA 19066; hereinafter generally referred to as "ASSIGNOR," have invented a certain new and useful

NOVEL CLOSTRIDIUM DIFFICILE DNA VACCINE

for which I have filed PCT International Application No. PCT/US12/46422, filed July 12, 2012;

AND, WHEREAS, The Trustees Of The University Of Pennsylvania hereinafter referred to as the assignee, of 3160 Chestnut Street, Suite 200, Philadelphia, Pennsylvania 19104, a university of higher education in Pennsylvania, is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said provisional application, and to any patent application(s) corresponding thereto, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries:

NOW, THEREFORE, in consideration of the sum of One Dollar and other good and valuable executed consideration, the full receipt and sufficiency of all of which are hereby acknowledged and intending to be legally bound hereby, I, the undersigned ASSIGNOR, hereby agree to sell, assign, transfer and convey and by these presents do sell, assign, transfer and convey unto the above-named ASSIGNEE, the whole and entire right, title and interest

in and to said invention as described in the above patent application, for the territory of the United States and its possessions and territories and all foreign countries;

in and to the above patent application and any and all related United States and foreign patent applications disclosing said invention, including provisionals, non-provisionals, divisions and continuations thereof, along with all rights of priority created by said patent application under any treaty relating thereto; and

in and to all United States and foreign patents which may be granted on any and all of said patent applications, including extensions, reissues and reexamination certificates thereof;

said invention, application(s) and patent(s) to be held and enjoyed by the above-named ASSIGNEE, for ASSIGNEE's own use and benefit, and for ASSIGNEE's legal representatives and assigns to the full end of the term or terms for which said patent(s) may be granted, as fully and entirely as the same would have been held by the undersigned ASSIGNOR had this assignment and sale not been made; and for the aforesaid consideration ASSIGNOR hereby covenants, agrees and undertakes to execute, whenever requested by the above-named

ASSIGNEE, all patent applications, assignments, lawful oaths and any other papers which ASSIGNEE may deem necessary or desirable for securing to ASSIGNEE or for maintaining for ASSIGNEE all the patent(s) hereby assigned or agreed to be assigned; all without further compensation to the undersigned ASSIGNOR.

12/12/12  
Date

[Signature]  
David B. WEINER

(Seal)

STATE OF Pennsylvania :  
: ss.  
COUNTY OF Philadelphia :

Before me, a notary public in and for the State and County aforesaid, on this 12<sup>th</sup> day of December, 2012, personally appeared David B. WEINER who being to me personally known, and who having first executed the foregoing instrument in my presence and have been by me first duly sworn, did acknowledge the foregoing instrument as his/her free deed and act, signed, sealed and delivered by his/her for the purpose therein stated and intending to be legally bound thereby and intending that said instrument be recorded.

[Signature]  
Notary Public  
My Commission Expires: 2/26/2013

COMMONWEALTH OF PENNSYLVANIA  
Notarial Seal  
Jessica M. Coyle, Notary Public  
City of Philadelphia Philadelphia County  
My Commission Expires Feb. 26, 2013  
Member, Pennsylvania Association of Notaries