502857922 06/18/2014

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|--------------------|----------------|
| STEPHEN F ANDERSON | 06/06/2014 |
| NATALIE ANOSOVA | 06/06/2014 |
| HAROLD KLEANTHOUS | 06/13/2014 |
| JIANXIN ZHANG | 05/23/2014 |

RECEIVING PARTY DATA

| Name: | SANOFI PASTEUR BIOLOGICS, LLC |
|-----------------|-------------------------------|
| Street Address: | 38 SIDNEY STREET |
| City: | CAMBRIDGE |
| State/Country: | MASSACHUSETTS |
| Postal Code: | 02139 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------|-----------|
| PCT Number: | US1428637 |

CORRESPONDENCE DATA

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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.

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Address Line 4: TYSONS CORNER, VIRGINIA 22182

| ATTORNEY DOCKET NUMBER: | 0171.0002-PCT |
|-------------------------|------------------------|
| NAME OF SUBMITTER: | TIMOTHY B. DONALDSON |
| SIGNATURE: | /Timothy B. Donaldson/ |
| DATE SIGNED: | 06/18/2014 |

Total Attachments: 3

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PATENT 502857922 REEL: 033133 FRAME: 0731

ASSIGNMENT

For good and valuable consideration, the sufficiency of which is hereby acknowledged, we the undersigned, Stephen F. ANDERSON, Natalie ANOSOVA, Harold KLEANTHOUS, and Jianxin ZHANG; hereby;

Sell, assign and transfer to Sanofi Pasteur Biologics, LLC., a Delaware corporation having a place of business at 38 Sidney Street, Cambridge, MA 62139, USA, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, the entire right, title and interest for the United States and all foreign countries, in and to any inventions which are disclosed in the applications;

| International Application No.: | PCT/US2014/028637 | Filing Date: | 14 March 2014 |
|---------------------------------------|-------------------|----------------|----------------|
| Claiming Priority to Application No.: | 61/794,071 | Filing Date: | 15 March 2013 |
| Entitled: | ANTIBODIES AG | AINST CLOSTRIE | DIUM DIFFICILE |
| | TOXINS AND M | SETHODS OF USI | NG THE SAME |

And in and to said application and all non-provisional, conversion, divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said inventions; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said inventions including the right to apply for patent rights in each foreign country and all rights to priority; and assign the right to sue for past acts of infringement, whether based on any patents listed herein, patents issuing from applications listed herein, or provisional rights from any patent applications listed herein;

Agree that said Assignee may apply for and receive Letters Patent for said inventions in its own name; and when requested, without charge to but at the expense of said Assignee, we agree to carry out in good faith the intent and purpose of this assignment, by executing all non-provisional, conversion, divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to said Assignee all facts known to us relating to said inventions and the history thereof, and generally by doing everything reasonably possible which said Assignee shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and for vesting title to said inventions and all application for patents and all patents on said inventions, in said Assignee;

Request the Honorable Commissioner of Patent and Trademarks to issue said Letters Patent to said Assignee; and

Covenant with said Assignce that no assignment, grant, mortgage, license or other agreement affecting the rights and property therein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by us/me.

Docket Ref.: 0171.0002-PCT

| 06 June 2014 | Ву | N. I. Um |
|--|--------------------------|---|
| Date | | Stephen F. ANDERSON |
| Commonwealth of Massachusetts County of Middlesex | | |
| minimization, which composited of | C > C A CA. | , 20 144, before me, the undersigned notary public, proved to me through satisfactory evidence of his his man, to be the person whose name is edged that he/she executed the same as his/her free act |
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| SEAL | Notary I | Public Public |
| Community (Community of the Community of | | |
| <i>06 June 2014</i> Date | By Name: | A. Augua_ Natalie ANOSOVA |
| Commonwealth of Massachusetts County of Middlesex | | |
| identification, which consisted of | acknowle | , 20 166, before me, the undersigned notary public,, proved to me through satisfactory evidence of, to be the person whose name is dged that he/she executed the same as his/her free act |
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Docket Ref.: 0171.0002-PCT

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| <u>6/13)14</u> Date | By |
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| Commonwealth of Massachusetts County of Middlesex | |
| identification, which consisted of MA | , 20 14, before me, the undersigned notary public hamb proved to me through satisfactory evidence of delivers license , to be the person whose name is acknowledged that he/she executed the same as his/her free act |
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| SEAL | |
| MATTHEW RAVI Notary Pub Commonwealth or like My Commission February 13. 2 | #c #\$4C>8,48773 Explose |
| 5/23/2014 | Ву |
| | Name: Jianxin ZHANG |
| Commonwealth of Massachusetts County of Middlesex | |
| Before me this 25 day of May personally appeared Times identification, which consisted of MA subscribed to the foregoing Assignment, and and deed for the purposes therein contained. | , 2014, before me, the undersigned notary public, have, proved to me through satisfactory evidence of drivers lieuws. to be the person whose name is acknowledged that he/she executed the same as his/her free act |
| | Math Fas |
| SEAL. | Notary Public |
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| WATTHEW PAVE WY COMMINSTRA | ; 04C/98J88773 47M** |

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