504325195 04/18/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

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EPAS ID: PAT4371880

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

CONVEYING PARTY DATA

| Name | Execution Date |
|--------------------|----------------|
| DAN H. BAROUCH | 03/29/2017 |
| CHRISTINE BRICAULT | 03/29/2017 |

RECEIVING PARTY DATA

| Name: | BETH ISRAEL DEACONESS MEDICAL CENTER, INC. |
|-----------------|--------------------------------------------|
| Street Address: | 330 BROOKLINE AVE, BR-2 |
| City: | BOSTON |
| State/Country: | MASSACHUSETTS |
| Postal Code: | 02215 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 15026391 |

CORRESPONDENCE DATA

Fax Number: (617)428-7045

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: (617) 428-0200

Email: patentadministrator@clarkelbing.com

Correspondent Name: CLARK & ELBING LLP
Address Line 1: 101 FEDERAL STREET

Address Line 2: 15TH FLOOR

Address Line 4: BOSTON, MASSACHUSETTS 02110

| ATTORNEY DOCKET NUMBER: | 01948-235002 | |
|-------------------------|--------------------------------|--|
| NAME OF SUBMITTER: | KRISTINA BIEKER-BRADY, PH.D. | |
| SIGNATURE: | /Kristina Bieker-Brady, Ph.D./ | |
| DATE SIGNED: | 04/18/2017 | |

Total Attachments: 3

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PATENT 504325195 REEL: 042039 FRAME: 0485

Attorney Docket No.: 01948-235002

ASSIGNMENT

For valuable consideration, we,

| Full Name of Assignor | City | State (and Country if not USA) |
|-----------------------|--------|--------------------------------|
| Dan H. BAROUCH | Newton | Massachusetts |
| Christine BRICAULT | Boston | Massachusetts |

hereby assign to

| Full Name of Assignee | State of Incorporation | Business Address |
|--------------------------------------------|------------------------|----------------------------------------------|
| Beth Israel Deaconess Medical Center, Inc. | Massachusetts | 330 Brookline Ave., BR-2 Boston, MA 02215 |

and to its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title, and interest throughout the world in the inventions and improvements which are subject of one or more applications for United States Patent signed by us, identified as:

| Title of Application | Filing Date | Serial Number |
|-------------------------------------------------------------------------------------------------------------------------|----------------|---------------|
| STABILIZED HUMAN IMMUNODEFICIENCY VIRUS (HIV) CLADE C ENVELOPE (ENV) TRIMER VACCINES AND METHODS OF USING SAME | March 31, 2016 | 15/026,391 |

and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment includes said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our names or in its own name for patents, utility models, design registrations, and like rights of exclusion, and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation, to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements, and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment. This assignment also includes 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.

5002

| ASSIGNOR | Attorney Docket No.: 01948-23 |
|-------------------------|-------------------------------|
| Før: Dan H. BAROUCH | 3(29(17) Date |
| Signature Printed name | 3129117- Date |
| Mustine BRICAULT | 3)09/17 Date |
| Witness: Signature | 3/29/17- Date |

Attorney Docket No.: 01948-235002

ASSIGNEE

Vikas P. Jukhatme. .

4/3/2017 .

For: Beth Israel Deaconess Medical Center, Inc.

Date

Representative Name

1

Representative Title:

mic Officer

Witness:

Signature

late

April 3, 2017

Printed name

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PATENT REEL: 042039 FRAME: 0488