504111616 11/28/2016

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE: NEW ASSIGNMENT NATURE OF CONVEYANCE: ASSIGNMENT

EPAS ID: PAT4158286

CONVEYING PARTY DATA

Name	Execution Date
MORTEN ØSTERGAARD JENSEN	03/25/2015
DAVID WAYNE BORHANI	03/27/2015
VISHWANATH JOGINI	03/26/2015

RECEIVING PARTY DATA

Name:	D.E. SHAW RESEARCH, LLC	
Street Address:	120 W. 45TH STREET	
Internal Address:	39TH FLOOR	
City:	NEW YORK	
State/Country:	NEW YORK	
Postal Code:	10036	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15295436

CORRESPONDENCE DATA

Fax Number: (617)526-5000

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: 6175266000

Email: WHIPDocketStaff@wilmerhale.com

Correspondent Name: WILMERHALE **60 STATE STREET** Address Line 1:

Address Line 4: BOSTON, MASSACHUSETTS 02109

ATTORNEY DOCKET NUMBER:	2206689.121 US3
NAME OF SUBMITTER:	MICHAEL E. CONNORS
SIGNATURE:	/Michael E. Connors/
DATE SIGNED:	11/28/2016

Total Attachments: 11

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> **PATENT** REEL: 040693 FRAME: 0295 504111616

PATENT REEL: 040693 FRAME: 0296

ASSIGNMENT

WHEREAS, the undersigned, to wit:

Morten Østergaard JENSEN residing at 500 East 77th St., Apt. 2215, New York, New York 10162;

David BORHANI residing at 109 Ridge Road, Hartsdale, New York 10530

(hereinafter collectively ASSIGNORS), have made a certain new and useful invention as set forth in an application for United States Letters Patent, entitled:

"METHODS FOR SCREENING VOLTAGE-GATED PROTEINS"

(b)	x which was filed as U.S. Provisional Application No.	61/604897
	on February 29, 2012 ;	
(c)	x which was filed as International Patent Application No.	PCT/US13/28324
	on February 28, 2013 ; and	
(d)	x which was filed as U.S. Patent Application No.	14/473386
	on August 29, 2014 ;	* / / / / / / / / / / / / / / / / / / /

AND WHEREAS, D.E. Shaw Research, LLC (hereinafter ASSIGNEE), a corporation organized and existing under the laws of the State of Delaware, and having its principal place of business at 120 W. 45th Street, 39th Floor, New York, New York 10036, is desirous of acquiring the entire right, title, and interest in and to said invention and any and all patents that may be obtained therefor, and in and to said application and any and all patents that may issue therefrom:

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is bereby acknowledged, ASSIGNORS do hereby sell, assign, transfer, and set over unto said ASSIGNEE, its successors, assigns, and legal representatives, all right, title, and interest in and to said invention throughout the world, and any and all patents of the United States and foreign countries that may be obtained therefor, including the right to sue for past infringement and obtain past damages, and in and to said application, including any and all continuations, continuations-in-part, divisionals, reissues, re-examinations, substitutions, and extensions thereof, and any and all patents of the United States and foreign countries that may issue therefrom, such right, title, and interest including the right to file applications and obtain patents, utility models, industrial models, and designs for said invention in the name of said ASSIGNEE, its successors, assigns, and legal representatives, throughout the world, including

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all rights of priority, all rights to publish cautionary notices reserving ownership of said invention, and all rights to register said invention in appropriate registries;

ASSIGNORS also do hereby covenant that they have the full right to convey the entire right, title, and interest herein assigned, and that they have not and will not execute any agreement in conflict herewith;

ASSIGNORS also do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States on said invention or resulting from said application, including any continuations, continuations-in-part, divisions, reissues, re-examinations, substitutions, and extensions thereof, to said ASSIGNEE, its successors, assigns, and legal representatives as the ASSIGNEE of the entire right, title, and interest herein assigned;

ASSIGNORS also do hereby agree to, at any time, upon request, without further or additional consideration but at the expense of said ASSIGNEE, its successors, assigns, or legal representatives, execute and deliver any and all papers, make all rightful oaths, and do all lawful acts that may be necessary or desirable to perfect the entire right, title, and interest in said application, including any and all continuations, continuations-in-part, divisionals, reissues, re-examinations, substitutions, and extensions thereof, and any and all patents of the United States and foreign countries that may issue therefrom said ASSIGNEE, its successors, assigns, and legal representatives, and generally do everything possible to vest the entire right, title, and interest herein assigned in said ASSIGNEE, its successors, assigns, and legal representatives;

ASSIGNORS also do hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document:

WILMER CUTLER PICKERING HALE AND DORR LLP

All practitioners at Customer Number 28089.

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PATENT REEL: 040693 FRAME: 0298

0)/16 - 2015	W. J. W. I
Date	Morten Østèrgaard Jensen
Winess: 27 th March 2015	11. 6870001.
Date	

Date	David Borhani	
Witness:		
29 (A)((A)((A)(A)(A)(A)(A)(A)(A)(A)(A)(A)(A		
Date		

ASSIGNMENT

WHEREAS, the undersigned, to wit:

(d)

	York	Morten Østergaard JENSEN residing at 500 East 77th St., A 10162;	pt. 2215, New York, New
- W		David BORHANI residing at 109 Ridge Road, Hartsdale, No Wayne	ew York 10530
2015-03-	as set	(hereinafter collectively ASSIGNORS), have made a certain forth in an application for United States Letters Patent, entitle	
		"METHODS FOR SCREENING VOLTAGE-GATE	D PROTEINS"
	(a)	which is being filed herewith in the United States Patent	and Trademark Office;
	(b)	x which was filed as U.S. Provisional Application No.	61/604897
		on <u>February 29, 2012</u> ;	
	(c)	x which was filed as International Patent Application No.	PCT/US13/28324
		on February 28, 2013; and	

| x | which was filed as U.S. Patent Application No.

August 29, 2014

AND WHEREAS, D.E. Shaw Research, LLC (hereinafter ASSIGNEE), a corporation organized and existing under the laws of the State of Delaware, and having its principal place of business at 120 W. 45th Street, 39th Floor, New York, New York 10036, is desirous of acquiring the entire right, title, and interest in and to said invention and any and all patents that may be obtained therefor, and in and to said application and any and all patents that may issue therefrom;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, ASSIGNORS do hereby sell, assign, transfer, and set over unto said ASSIGNEE, its successors, assigns, and legal representatives, all right, title, and interest in and to said invention throughout the world, and any and all patents of the United States and foreign countries that may be obtained therefor, including the right to sue for past infringement and obtain past damages, and in and to said application, including any and all continuations, continuations-in-part, divisionals, reissues, re-examinations, substitutions, and extensions thereof, and any and all patents of the United States and foreign countries that may issue therefrom, such right, title, and interest including the right to file applications and obtain patents, utility models, industrial models, and designs for said invention in the name of said ASSIGNEE, its successors, assigns, and legal representatives, throughout the world, including

PATENT REEL: 040693 FRAME: 0301

14/473386

all rights of priority, all rights to publish cautionary notices reserving ownership of said invention, and all rights to register said invention in appropriate registries;

ASSIGNORS also do hereby covenant that they have the full right to convey the entire right, title, and interest herein assigned, and that they have not and will not execute any agreement in conflict herewith;

ASSIGNORS also do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States on said invention or resulting from said application, including any continuations, continuations-in-part, divisions, reissues, re-examinations, substitutions, and extensions thereof, to said ASSIGNEE, its successors, assigns, and legal representatives as the ASSIGNEE of the entire right, title, and interest herein assigned;

ASSIGNORS also do hereby agree to, at any time, upon request, without further or additional consideration but at the expense of said ASSIGNEE, its successors, assigns, or legal representatives, execute and deliver any and all papers, make all rightful oaths, and do all lawful acts that may be necessary or desirable to perfect the entire right, title, and interest in said application, including any and all continuations, continuations-in-part, divisionals, reissues, re-examinations, substitutions, and extensions thereof, and any and all patents of the United States and foreign countries that may issue therefrom said ASSIGNEE, its successors, assigns, and legal representatives, and generally do everything possible to vest the entire right, title, and interest herein assigned in said ASSIGNEE, its successors, assigns, and legal representatives;

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WILMER CUTLER PICKERING HALE AND DORR LLP

All practitioners at Customer Number 28089.

Date	Morten Østergaard Jensen
Witness:	

Date David Borhani Wigner

Witness:

Date | Date

ASSIGNMENT

WHEREAS, the undersigned, to wit:

Vishwanath JOGINI residing at Plot 64 Flat 104 Hemadurga Prestige, Gautami Enclave, Kondapur, Hyderabad-500084, INDIA

(hereinafter collectively ASSIGNOR), has made a certain new and useful invention as set forth in an application for United States Letters Patent, entitled:

"METHODS FOR SCREENING VOLTAGE-GATED PROTEINS"

(a)	which is being filed herewith in the United States Patent as	nd Trademark Office;
(b)	which was filed as U.S. Provisional Application No. on February 29, 2012 ;	61/604897
(c)	which was filed as International Patent Application No. on February 28, 2013; and	PCT/US13/28324
(d)	which was filed as U.S. Patent Application No. on August 29, 2014;	14/473386

AND WHEREAS, D.E. Shaw Research India Technology Private Limited (hereinafter ASSIGNEE), having its principal place of business at Sanali Infopark, 8-2-120/113, Road No. 2, Banjara Hills, Hyderabad 500034, India, is desirous of acquiring the entire right, title, and interest in and to said invention and any and all patents that may be obtained therefor, and in and to said application and any and all patents that may issue therefrom;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, ASSIGNOR does hereby sell, assign, transfer, and set over unto said ASSIGNEE, its successors, assigns, and legal representatives, all right, title, and interest in and to said invention throughout the world, and any and all patents of the United States and foreign countries that may be obtained therefor, including the right to sue for past infringement and obtain past damages, and in and to said application, including any and all continuations, continuations-in-part, divisionals, reissues, re-examinations, substitutions, and extensions thereof, and any and all patents of the United States and foreign countries that may issue therefrom, such right, title, and interest including the right to file applications and obtain patents, utility models, industrial models, and designs for said invention in the name of said ASSIGNEE, its successors, assigns, and legal representatives, throughout the world, including all rights of priority, all rights to publish cautionary notices reserving ownership of said invention, and all rights to register said invention in appropriate registries;

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ASSIGNOR also does hereby covenant that he has the full right to convey the entire right, title, and interest herein assigned, and that he has not and will not execute any agreement in conflict herewith;

ASSIGNOR also does hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States on said invention or resulting from said application, including any continuations, continuations-in-part, divisions, reissues, re-examinations, substitutions, and extensions thereof, to said ASSIGNEE, its successors, assigns, and legal representatives as the ASSIGNEE of the entire right, title, and interest herein assigned;

ASSIGNOR also does hereby agree to, at any time, upon request, without further or additional consideration but at the expense of said ASSIGNEE, its successors, assigns, or legal representatives, execute and deliver any and all papers, make all rightful oaths, and do all lawful acts that may be necessary or desirable to perfect the entire right, title, and interest in said application, including any and all continuations, continuations-in-part, divisionals, reissues, re-examinations, substitutions, and extensions thereof, and any and all patents of the United States and foreign countries that may issue therefrom said ASSIGNEE, its successors, assigns, and legal representatives, and generally do everything possible to vest the entire right, title, and interest herein assigned in said ASSIGNEE, its successors, assigns, and legal representatives;

ASSIGNOR also does hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document:

WILMER CUTLER PICKERING HALE AND DORR LLP

All practitioners at Customer Number 28089.

	03/26/15	J.j.
Date		Vishwanath JOGINI
Witness:	03/26/2015_	Janeer th
Date		Nassens Ale.