# 504323570 04/17/2017

## PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:		NE	NEW ASSIGNMENT			
NATURE OF CONVEYANCE:		AS	ASSIGNMENT			
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Property Type			Number			
Application Number: 1500		5005382	2			
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Phone: Email: Correspondent Name Address Line 1: Address Line 2: Address Line 4: ATTORNEY DOCKET N NAME OF SUBMITTER SIGNATURE: DATE SIGNED:	jo D O 30 Pl <b>VUMBER:</b>	12-562- Dan.bice UANE A NE OXF 01 GRA ITTSBU 007 DU /Du	<ul> <li>@bipc.com</li> <li>A. STEWART III</li> <li>FORD CENTRE</li> <li>NT STREET. 20TH FLOG</li> <li>RGH, PENNSYLVANIA</li> <li>73605-000265</li> <li>ANE A. STEWART III</li> <li>ane A. Stewart III/</li> </ul>	OR		
Phone: Email: Correspondent Name Address Line 1: Address Line 2:	jo D 0 30 P <b>1UMBER:</b>	12-562- an.bice UANE A NE OXF 01 GRA ITTSBU 007 DU 007 DU 007	<ul> <li>@bipc.com</li> <li>A. STEWART III</li> <li>FORD CENTRE</li> <li>NT STREET. 20TH FLOORGH, PENNSYLVANIA</li> <li>73605-000265</li> <li>ANE A. STEWART III</li> <li>Iane A. Stewart III/</li> <li>17/2017</li> </ul>	OR		
Phone: Email: Correspondent Name Address Line 1: Address Line 2: Address Line 4: ATTORNEY DOCKET N NAME OF SUBMITTER SIGNATURE: DATE SIGNED: Fotal Attachments: 3	is: Di O 30 Pl NUMBER: C S Assignmer	12-562- an.bice UANE A NE OXF 01 GRA ITTSBU 007 007 007 007 007 007 007 00	<ul> <li>@bipc.com</li> <li>A. STEWART III</li> <li>FORD CENTRE</li> <li>NT STREET. 20TH FLOGRGH, PENNSYLVANIA</li> <li>73605-000265</li> <li>ANE A. STEWART III</li> <li>Iane A. Stewart III/</li> <li>17/2017</li> <li>ed#page1.tif</li> </ul>	OR		

#### ASSIGNMENT

WHEREAS, I, Manish Kumar, residing at 665 Stoneledge Road, State College, Pennsylvania 16803, having invented certain new and useful apparatus, methods, inventions, discoveries and/or improvements, disclosed in United States Patent Application No. 13/969,939, filed August 19, 2013 and PCT International Patent Application Serial No. PCT/US2013/055555 filed August 19, 2013 entitled "HIGH DENSITY MEMBRANE PROTEIN MEMBRANES", said application claiming priority to United States Provisional Patent Application Serial No. 61/684,410, filed in the United States Patent and Trademark Office on August 17, 2012.

AND WHEREAS, The Penn State Research Foundation, The Pennsylvania State University, 304 Old Main, University Park, Pennsylvania 16802-1504 (hereinafter the "Assignee") are desirous of acquiring the entire right, title and interest in and to said application(s) and the apparatus, inventions, discoveries, methods, and improvements therein disclosed;

NOW THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration paid to me by said Assignee, receipt whereof I hereby acknowledge, I do hereby assign, sell, transfer, and set over unto said Assignee the entire right, title, and interest in and to said application(s) and the apparatus, inventions, discoveries and improvements therein disclosed for the United States of America and its territories and all foreign countries and any Letters Patent which may issue therefor in the United States and its territories and all foreign countries and all divisions, reissues, continuations, continuations-in-part, renewals, and/or extensions thereof, including the right to apply for Letters Patents in each foreign country and the United States of America and its territories, in its own name and to claim any and all priority rights under the International Convention, other conventions, treaties, or otherwise associated therewith for each country and the United States of America and its territories, said Assignee to have and to hold the interests herein assigned to the full ends of the terms of said Letters Patent and any and all divisions, reissues, continuations, continuations-in-part, renewals, and/or extensions thereof, have and to hold the interests herein assigned to the full ends of the terms of said Letters Patent and any and all divisions, reissues, continuations, continuations-in-part, renewals, and/or extensions thereof, respectively, as fully and entirely as the same would have been held and enjoyed by me had this Assignment not been made.

The Commissioner of Patents and Trademarks is requested to issue such Letters Patent in accordance herewith. I covenant that I am the lawful owner of the said application(s), apparatus, inventions, discoveries and improvements, that the same are unencumbered, that no license has been granted to make, use, or vend the said apparatus, inventions, discoveries or improvements or any of them, and that I have the full right to make this Assignment.

And for said consideration, I agree individually that we will communicate to said Assignee or the representatives thereof any facts known to me respecting said apparatus, inventions, discoveries and improvements, and will, upon request, but without expense to me, testify in any legal proceedings, sign all lawful papers, execute all divisional, reissue, continuation, continuation-in-part, renewal, and/or extension applications, make all rightful oaths, and generally do all other and further lawful acts, deemed necessary or expedient by said

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#### PATENT REEL: 042026 FRAME: 0986

#### Attorney Ref. No. 0073605-000151

Assignee or by counsel for said Assignee, to assist or enable said Assignee to obtain and enforce full benefits from the rights and interests herein assigned, and, in the event of any application or Letters Patent assigned herein becoming involved in Interference, to cooperate to the best of the ability of the undersigned in the matters of preparing and executing the preliminary statement and giving and producing evidence in support thereof. This Assignment shall be binding upon our heirs, executors, administrators, and/or assigns, and shall inure to the benefit of the heirs, executors, administrators, successors, and/or assigns, as the case may be, of said Assignee.

And for said consideration, the undersigned hereby agrees to execute, at the request of said Assignee, all documents in connection with any application for foreign letters patent therefor.

Executed:  $\underline{B}^{12}/02/13$ 

Manish Kumar

#### PATENT REEL: 042026 FRAME: 0987

Attorney Ref. No. 0073605-000151

Commonwealth of Pennsylvania

County of \_\_\_\_\_\_

ss:

Before me, a Notary Public in and for the said County and State, personally appeared Manish Kumar, who acknowledged that he/she is the person who executed the foregoing Assignment and acknowledged it to be his/her free and voluntary act and deed.

Witness my hand and notarial seal this day of 20/3 Sellura (Notarial Seal) Notary Public

COMMONWEALTH OF PENNSYLVANIA

Notarial Seal Lisa M. Barbara, Notary Public State College Boro, Centre County My Commission Expires May 6, 2015 MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

**RECORDED: 04/17/2017** 

### PATENT REEL: 042026 FRAME: 0988