

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT4095197

|   |   |
|---|---|
| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT                                |
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT                                    |
| <b>CONVEYING PARTY DATA</b>   |   |
| <b>Name</b>   | <b>Execution Date</b>                         |
| ULHAS KANHAIYALAL KHARUL  | 09/07/2016                                    |
| SREEKUMAR KURUNGOT  | 09/07/2016                                    |
| ANITA SANWARMAL REWAR   | 09/07/2016                                    |
| HARSHAL DILIP CHAUDHARI   | 09/07/2016                                    |
| <b>RECEIVING PARTY DATA</b>   |   |
| <b>Name:</b>  | COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH |
| <b>Street Address:</b>  | ANUSANDHAN BHAWAN                             |
| <b>Internal Address:</b>  | RAFI MARG                                     |
| <b>City:</b>  | NEW DELHI                                     |
| <b>State/Country:</b>   | INDIA   |
| <b>Postal Code:</b>   | 110001  |
| <b>PROPERTY NUMBERS Total: 1</b>  |   |
| <b>Property Type</b>  | <b>Number</b>                                 |
| Application Number:   | 15113212                                      |
| <b>CORRESPONDENCE DATA</b>  |   |
| <b>Fax Number:</b>  | (704)444-1000                                 |
| <i>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.</i> |   |
| <b>Phone:</b>   | 704-444-1000                                  |
| <b>Email:</b>   | usptomail@alston.com                          |
| <b>Correspondent Name:</b>  | ALSTON & BIRD LLP                             |
| <b>Address Line 1:</b>  | BANK OF AMERICA PLAZA                         |
| <b>Address Line 2:</b>  | 101 SOUTH TRYON STREET, SUITE 4000            |
| <b>Address Line 4:</b>  | CHARLOTTE, NORTH CAROLINA 28280-4000          |
| <b>ATTORNEY DOCKET NUMBER:</b>  | 064908/482070                                 |
| <b>NAME OF SUBMITTER:</b>   | LAUREN E. BURROW                              |
| <b>SIGNATURE:</b>   | /Lauren E. Burrow/                            |
| <b>DATE SIGNED:</b>   | 10/13/2016                                    |
| <b>Total Attachments: 5</b>   |   |

source=482070\_Assignment#page1.tif  
source=482070\_Assignment#page2.tif  
source=482070\_Assignment#page3.tif  
source=482070\_Assignment#page4.tif  
source=482070\_Assignment#page5.tif

**ASSIGNMENT - WORLDWIDE**

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto

**Council of Scientific and Industrial Research**  
Anusandhan Bhawan  
Rafi Marg  
New Delhi, 110 001  
INDIA

its successors and assigns, the entire right, title and interest, so far as concerns the United States and the Territories and Possessions thereof and all foreign countries in and to the invention in **"BLEND MEMBRANES BASED ON POLYBENZIMIDAZOLE (PBI) AND POLYMERIC IONIC LIQUIDS (PILS) AND A PROCESS FOR THE PREPARATION THEREOF"**

as set forth in this United States Patent Application

- executed concurrently herewith
- executed on \_\_\_\_\_
- Application No. 15/113,212 ; filed July 21, 2016
- This application is a national phase entry of International Application No. PCT/IN2015/000037, filed January 21, 2015, which claims benefit of the Indian Patent Application No. 0184/DEL/2014, filed January 21, 2014 the entire contents of which are incorporated herein by reference.

said application for United States Letters Patent, including all divisional, renewal, substitute, continuation, nonprovisionals, continuation-in-parts, and Convention applications based in whole or in part upon said inventions or upon said applications, and any and all Letters Patent and reissues, reexaminations, and extensions of Letters Patent granted for said inventions or upon said applications and every priority right that is or may be predicated upon or arise from said inventions, said applications, and said Letters Patent; said Assignee being hereby authorized to file patent applications in any or all countries on any or all said inventions in the name of the undersigned or in the name of said Assignee or otherwise as said Assignee may deem advisable, under the International Convention or otherwise; the Commissioner of Patents and Trademarks of the United States of America being hereby authorized to issue or transfer all said Letters Patent to said Assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or other right theretofore given, and that the undersigned will do all acts reasonably serving to ensure that the said inventions, patent applications and Letters Patent shall be held and enjoyed by said Assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to said Assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, declarations, and lawful affidavits in form and substance which may be requested by said Assignee, to furnish said Assignee with all

facts relating to said inventions or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may embody said inventions, and to testify in any proceedings relating to said inventions, patent applications, and/or Letters Patent.

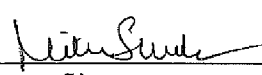
The undersigned hereby grant(s) an authorized representative of Assignee the power to insert in this Assignment any further identification that may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

This Assignment is deemed to be effective at least as early as the earliest priority date.

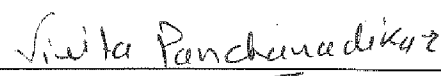
07-09-2016  
Date

  
Ulhas Kanhaiyalal KHARUL

Dr. Nitin Shukla Tewari  
Scientist  
Witness National Chemical Laboratory  
Pune-411 008.

  
Witness Signature

Dr. Swita Panchamadikar  
Witness  
National Chemical Laboratory  
Pune-411 008.

  
Witness Signature

The undersigned hereby grant(s) an authorized representative of Assignee the power to insert in this Assignment any further identification that may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

This Assignment is deemed to be effective at least as early as the earliest priority date.

07-09-2016  
Date

*[Signature]*  
Sreekumar KURUNGOT

Dr. Nitin Shukla Tewari  
Scientist  
National Chemical Laboratory  
Pune-411 008.  
Witness

*Nitin Shukla*  
Witness Signature

Dr. Vinita Panchanandika  
Witness  
National Chemical Laboratory  
Pune-411 008.

*Vinita Panchanandika*  
Witness Signature

The undersigned hereby grant(s) an authorized representative of Assignee the power to insert in this Assignment any further identification that may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

This Assignment is deemed to be effective at least as early as the earliest priority date.

07-09-2016  
Date

Anita  
Anita Sanwarmal REWAR

Dr. Nitin Shukla Tewari  
Witness  
National Chemical Laboratory  
Pune-411 008.

Nitin Shukla  
Witness Signature

Dr. Vinita Panchanadikar  
Witness  
National Chemical Laboratory  
Pune-411 008.

Vinita Panchanadikar  
Witness Signature

The undersigned hereby grant(s) an authorized representative of Assignee the power to insert in this Assignment any further identification that may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

This Assignment is deemed to be effective at least as early as the earliest priority date.

07-09-2016  
Date

*Harshal Dilip*  
Harshal Dilip CHAUDHARI

Dr. Nitin Shukla Tewari  
Scientist  
National Chemical Laboratory  
Pune-411 008.  
Witness

*Nitin Shukla*  
Witness Signature

Dr. Vinita Panchanolkar  
National Chemical Laboratory  
Pune-411 008.  
Witness

*Vinita Panchanolkar*  
Witness Signature