PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Xiaobing Zhu	05/01/2008
Zhen Zhou	05/01/2008
Meilin Liu	05/01/2008

RECEIVING PARTY DATA

Name:	Georgia Tech Research Corporation
Street Address:	505 Tenth Street, NW
City:	Atlanta
State/Country:	GEORGIA
Postal Code:	30332-0415

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12128610

CORRESPONDENCE DATA

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NAME OF SUBMITTER:	Andrea E. Tran

Total Attachments: 5

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PATENT REEL: 021268 FRAME: 0832

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ASSIGNMENT OF UTILITY PATENT APPLICATION

WHEREAS, the following parties:

Name	Address
Xiaobing Zhu	500 Northside Circle, Apt. P7, Atlanta, GA 30318 USA
Zhen Zhou	1031 State Street, Apt. 202, Atlanta, GA 30318 USA
Meilin Liu	450 Saint Regis Drive, Alpharetta, GA 30022 USA

hereinafter referred to as ASSIGNOR, has/have invented certain new and useful improvements ("invention(s)") as described and set forth in the below-identified utility application for United States Letters Patent entitled:

PROTON EXCHANGE MEMBRANES BASED ON HETEROCYCLES AND ACIDS

which was:	
\boxtimes	executed on even date herewith,
	filed with the United States Patent and Trademark Office (USPTO) on . and
	assigned Serial No. , and further described in U.S. Provisional application entitled , filed with the USPTO on , and assigned Serial No
Note:	Only one of the first two checkboxes will be checked. The third checkbox will be checked, only if appropriate.

WHEREAS, Georgia Tech Research Corporation, having a place of business at the Georgia Institute of Technology, 505 Tenth Street, NW, Atlanta, Georgia 30332-0415, hereinafter referred to as ASSIGNEE, is desirous of acquiring ASSIGNOR'S interest in and to said invention(s), said utility application, said provisional application, and any U.S. and foreign patents which are related to the same.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by ASSIGNOR, ASSIGNOR has sold, assigned and transferred and does hereby sell, assign and

transfer unto ASSIGNEE, and ASSIGNEE'S successors and assigns, (a) the entire right, title and interest, for the United States of America, in and to said invention(s), said utility application, and said Provisional application and all the rights and privileges in any application and under any and all patents that may be granted in the U.S. for said inventions, including all corresponding provisional, continuation, continuation in part, divisional, reissue, and reexamination applications; and (b) the entire right, title and interest in and to said invention(s), said utility application, and said provisional application for all countries foreign to the U.S., including all rights of priority arising from them, and all the rights and privileges under any and all forms of protection, including patents, that may be granted in said countries foreign to the U.S. for them.

ASSIGNOR authorizes ASSIGNEE to make application for such protection in its own name and maintain such protection in any and all countries foreign to the U.S., and to invoke and claim for any application for patent or other form of protection for said Inventions, without further authorization from ASSIGNOR, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

ASSIGNOR hereby consents that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of ASSIGNEE to apply for patent or other form of protection for said Inventions, said utility application, or said provisional application and to claim the aforesaid benefit of the right of priority.

ASSIGNOR requests that any and all patents for said inventions be issued to ASSIGNEE in the U.S. and to ASSIGNEE in all countries foreign to the U.S., or to such nominee as ASSIGNEE may designate.

ASSIGNOR covenants and agrees that, when requested, ASSIGNOR shall, without charge to ASSIGNEE but at ASSIGNEE'S expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable, or convenient in connection with the patent applications, patents, or other forms of protection of said invention(s), and for the defense and protection thereof if challenged in the court of law.

ASSIGNOR authorizes ASSIGNEE or its agents to insert, on ASSIGNOR's behalf, the filing date and/or serial number above pertaining to the utility application and/or the provisional application, if not known as of the date of execution of this document.

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Lizobing Thu XIAOBING ZHU

Date: 4/13/2008

United States of America

State of Georgia

County of Fulton

On this 231d day of 701, 2018, before me personally came XIAOBING ZHU to me known to be the individual described above and who executed the foregoing instrument, or acknowledged execution of the same.

PATENT

REEL: 021268 FRAME: 0836

Date: 23/0 ZHEN ZHOU

Date: 4/23/0 ZHEN ZHOU

United States of America

State of Georgia

County of Fulton

On this 23 th day of April 20 0 before me personally came to me and who executed the foregoing instrument, or acknowledged execution of the same.

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Date: 5/1/2008

United States of America

State of Georgia

County of Fulton

RECORDED: 07/22/2008

AMETLIN LIU

PATENT

REEL: 021268 FRAME: 0838