504007218 09/15/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4053875

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the INCORRECT ASSIGNOR PAMELA J. BAKER AND TO CORRECT INCORRECT EXECUTION DATE 06/27/2016 OF ASSIGNOR MERLIN L. BRUENING previously recorded on Reel 039588 Frame 0347. Assignor(s) hereby confirms the ASSIGNMENT. DOCUMENT ID NUMBER 503984154.

CONVEYING PARTY DATA

Name	Execution Date
MERLIN L. BRUENING	06/27/2013
PAMELA J. BAKER (LEGAL REPRESENTATIVE FOR GREGORY L. BAKER)	06/24/2013
SOMNATH BHATTACHARJEE	06/28/2013
YIDING MA	06/29/2013

RECEIVING PARTY DATA

Name:	BOARD OF TRUSTEES OF MICHIGAN STATE UNIVERSITY	
Street Address:	450 ADMINISTRATION BUILDING	
City:	EAST LANSING	
State/Country:	MICHIGAN	
Postal Code:	48824-1046	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15251628

CORRESPONDENCE DATA

Fax Number: (312)474-0448

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: 312-474-6300

Email: docket@marshallip.com, kkrahn@marshallip.com

Correspondent Name: MARSHALL, GERSTEIN & BORUN LLP

Address Line 1: 233 S. WACKER DRIVE Address Line 2: 6300 WILLIS TOWER

Address Line 4: CHICAGO, ILLINOIS 60606-6357

ATTORNEY DOCKET NUMBER:	32213/930B	
NAME OF SUBMITTER:	KARIN KRAHN	
SIGNATURE:	/Karin Krahn/	
DATE SIGNED:	09/15/2016	

PATENT 504007218 REEL: 040043 FRAME: 0171

Total Attachments: 6 source=930B Assignment#page1.tif source=930B Assignment#page2.tif source=930B Assignment#page3.tif source=930B Assignment#page4.tif source=930B Assignment#page5.tif source=930B Assignment#page6.tif

PATENT REEL: 040043 FRAME: 0172

503984154 08/30/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4030810

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MERLIN L. BRUENING	06/27/2016
PAMELA J. BAKER	06/24/2013
SOMNATH BHATTACHARJEE	06/28/2013
YIDING MA	06/29/2013

RECEIVING PARTY DATA

Name:	BOARD OF TRUSTEES OF MICHIGAN STATE UNIVERSITY	
Street Address:	450 ADMINISTRATION BUILDING	
City:	EAST LANSING	
State/Country:	MICHIGAN	
Postal Code:	48824-1046	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15251628

CORRESPONDENCE DATA

Fax Number: (312)474-0448

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: 312-474-6300

Email: docket@marshallip.com, kkrahn@marshallip.com

MARSHALL, GERSTEIN & BORUN LLP **Correspondent Name:**

Address Line 1: 233 S. WACKER DRIVE Address Line 2: 6300 WILLIS TOWER

Address Line 4: CHICAGO, ILLINOIS 60606-6357

ATTORNEY DOCKET NUMBER:	32213/930B
NAME OF SUBMITTER:	KARIN KRAHN
SIGNATURE:	/Karin Krahn/
DATE SIGNED:	08/30/2016

Total Attachments: 5

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> **PATENT REEL: 040043 FRAME: 0173**

ASSIGNMENT

As a below-named inventor, I hereby declare that:

My post office address is as stated below under my signature and I am named as an inventor of the inventions (herein INVENTIONS) as described in the patent application (herein APPLICATION) identified below.

Title: Functionalization of a Porous Membrane with an Adsorbed Polyacid

Inventors: Merlin L. Bruening, Gregory L. Baker (Deceased; Legal

Representative - Pamelo J Baker Somnath Bhattacharjee, and Yiding

Ma

Serial Number: 13/799,380 Filing Date: March 13, 2013 Attorney Docket: 59910-2930

In view of valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and further in view of my obligations respecting "University Inventions" as set forth in the current version of the MSU Faculty Handbook, I do hereby assign and transfer unto the BOARD OF TRUSTEES OF MICHIGAN STATE UNIVERSITY, 450 Administration Building, East Lansing, MI 48824-1046 (herein ASSIGNEE), my entire right, title and interest in and to the INVENTIONS, the APPLICATION and the right of priority thereto, and all related applications (including provisional applications, non-provisional regular applications, divisions, reissues, continuations, international patent applications, and extensions thereof, whether or not claiming priority to the APPLICATION) and all counterparts in other countries and any and all Letters Patent (and certificates of invention or similar certificates) (herein PATENTS) which may be granted based upon the INVENTIONS or the APPLICATION or related applications or counterparts in other countries, this assignment being applicable throughout the world; and I do hereby agree to assign and transfer unto ASSIGNEE, its successors or assigns, on like terms as set forth in this Assignment, my entire right, title and interest in and to any continuation-in-part applications related to the APPLICATION or to any other related applications related to the APPLICATION herein assigned (including non-provisional regular applications, divisions, reissues, continuations, international patent applications, and extensions thereof claiming priority to the APPLICATION).

I agree that I will communicate ASSIGNEE or its designated representatives any material facts known to me respecting the INVENTIONS and/or the APPLICATION; testify in any legal proceedings respecting the INVENTIONS; and execute any and all papers deemed necessary by ASSIGNEE, its successors or assigns, to secure the rights herein assigned.

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Atty. Docket No. 59910-2930 Bruening et al. "FUNCTIONALIZATION OF A POROUS MEMBRANE WITH AN ADSORBED POLYACID"

I authorize ASSIGNEE or its representatives to complete the Application Serial Number and Filing Date of the APPLICATION, once known, if that information is not specified above as of the date of my signature hereto.

I hereby represent and warrant that I have not granted any rights inconsistent with the rights granted herein.

FULL NAME OF INVENTOR	: Merlin L. Bruening	, j
nventor's signature Residence	: East Lansing, Michigan	Date: $06/27/2015$
Ditizenship Mailing Address	: US : 1220 Chartwell Carriage Way S East Lansing, Michigan 48823	South
Signed and witnessed in the pre Rebecca P. Town Typed or printed name of witne	whend Notary My Con Usend 06-27	BECCA P. TOWNSEND Public, Ingham County, MI mmission Expires 11/24/2013
FULL NAME OF INVENTOR	: Gregory L. Baker (Deceased) Legal Representative (please print)	_
Legal Representative's signatur Residence		_Date:
Citizenship Mailing Address	:	
Signed and witnessed in the pre	esence of:	
(Typed or printed name of witne	oee)	
() Shed of hillied flattle of withe	700)	

Atty. Docket No. 59910-2930 Bruening et al. "FUNCTIONALIZATION OF A POROUS MEMBRANE WITH AN ADSORBED POLYACID"

I authorize ASSIGNEE or its representatives to complete the Application Serial Number and Filing Date of the APPLICATION, once known, if that information is not specified above as of the date of my signature hereto.

I hereby represent and warrant that I have not granted any rights inconsistent with the rights granted herein.

		•
FULL NAME OF INVENTOR	;	Merlin L. Bruening
inventor's signature Residence	:	Date: East Lansing, Michigan
Citizenship Mailing Address	:	US 1220 Chartwell Carriage Way South East Lansing, Michigan 48823
Signed and witnessed in the pr	rese	ence of:
olgrica and wandood in the pr	,000	
(Typed or printed name of with	ness)
		Constant Poker (Decembed)
FULL NAME OF INVENTOR	:	Gregory L. Baker (Deceased)
		Legal Representative (please print)
	-	
Legal Representative's signati	ure	
Residence 9600 Deer		
Citizenship Haslett M	17	48840
Mailing Address USA	C (1)	reaship
Same		
Signed and witnessed in the p	ores: n l	send Rebecca P. Johnsend 6-24-2013
	1	6-24-2013
REBECCA P. TOWNSEND	nes	<u>s)</u>
lary Public, Ingham County, w	44	•

-2-

My Commission Expires 11/24/2013

Atty, Docket No. 59910-2930 Bruening et al. "FUNCTIONALIZATION OF A POROUS MEMBRANE WITH AN ADSORBED POLYACID"						
FULL NAME OF INVENTOR Inventor's signature Residence Citizenship Mailing Address	: Somnath Bhattacharjee : Somnath Brattachy Date: 28th June, 2013 : East Lansing, Michigan DURHAM, NORTH CAROLINA B : India : 1544 Spartan Village, Apt. L 1103 ROSE GARDEN LANG					
Maining Address	: India : 1544 Spartan Village, Apt. L 1103 ROSE GARDEN LANG East Lansing, Michigan 48823 DURHAM, NORTH CAROLING 27707 &					
Signed and witnessed in the presence of:						
(Typed or printed name of witness)						
FULL NAME OF INVENTOR	: Yiding Ma					
Inventor's signature Residence	:Date: : Ann Arbor, Michigan					
Citizenship Mailing Address	: China : 610 Hidden Valley Club Dr., Apt. 216 Ann Arbor, Michigan 48104					

Signed and witnessed in the presence of:

(Typed or printed name of witness)

Atty. Docket No. 59910-2930 Bruening et al. "FUNCTIONALIZATION OF A POROUS MEMBRANE WITH AN ADSORBED POLYACID"

FULL NAME OF INVENTOR	;	Somnath Bhattacharjee		
Inventor's signature Residence	:	East Lansing, Michigan)ate: _	.,
Citizenship Mailing Address	;	India 1544 Spartan Village, Apt. L East Lansing, Michigan 48823		
Signed and witnessed in the pre	sei	nce of:		
(Typed or printed name of witne	ss)			
FULL NAME OF INVENTOR	:	Yiding Ma		
Inventor's signature Residence	:	Ann Arbor, Michigan	Date:	06/29/2013
Citizenship Mailing Address	:	China 610 Hidden Valley Club Dr., Ap Ann Arbor, Michigan 48104	t. 216	
Signed and witnessed in the province of the signed and witnessed in the si	ese	ence of:		

(Typed or printed name of witness)