

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT2851014

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
PHILLIP B. MESSERSMITH	10/19/2012
LESLEY HAMMING	11/15/2012
HAESHIN LEE	11/07/2012
YUHAN LEE	10/31/2012
ZHONGQIANG LIU	11/20/2012
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	NORTHWESTERN UNIVERSITY
<b>Street Address:</b>	633 CLARK STREET
<b>City:</b>	EVANSTON
<b>State/Country:</b>	ILLINOIS
<b>Postal Code:</b>	60208
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	14017844
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Email:</b>	sara.kerstein@quarles.com
<b>Correspondent Name:</b>	SARA J. KERSTEIN
<b>Address Line 1:</b>	411 E. WISCONSIN AVENUE
<b>Address Line 2:</b>	QUARLES & BRADY, LLP
<b>Address Line 4:</b>	MILWAUKEE, WISCONSIN 53202
<b>ATTORNEY DOCKET NUMBER:</b>	702581.00072
<b>NAME OF SUBMITTER:</b>	SARA J. KERSTEIN
<b>SIGNATURE:</b>	/Sara J. Kerstein/
<b>DATE SIGNED:</b>	05/12/2014
<b>Total Attachments: 5</b>	
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**ASSIGNMENT**

WHEREAS, WE, PHILLIP B. MESSERSMITH, HAESHIN LEE, YUHAN LEE, ZHONGQIANG LIU, and LESLIE HAMMING (hereinafter collectively referred to as ("ASSIGNORS")) have invented certain new and useful improvements as described and set forth in the below-identified applications for United States Letters Patent:

**Title of Invention:** Substrate-Independent Layer-by-Layer Assembly Using Mussel Adhesive-Inspired Polymers  
**Title of U.S. Patent:** Substrate-Independent Layer-by-Layer Assembly Using Catechol-Functionalized Polymers  
**Application Filing Date:** November 10, 2008 **Serial Number:** 12/267,822

**Title of Patent Application:** Substrate-Independent Layer-by-Layer Assembly Using Catechol-Functionalized Polymers  
**Application Filing Date:** September 18, 2012 **Serial No.:** 13/622,136

WHEREAS, Northwestern University, an Illinois not-for-profit corporation, having a place of business at 633 Clark Street, Evanston, Illinois 60208, hereinafter referred to as "ASSIGNEE," is desirous of acquiring the entire right, title and interest in said invention and application and in any Letters Patent which may be granted on the same;

NOW THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, receipt of which is hereby acknowledged, ASSIGNORS have sold, assigned and transferred, and by these presents do sell, assign and transfer unto said ASSIGNEE, and ASSIGNEE's successors and assigns, all right, title and interest in and to said invention, said application for United States Letters Patent, and any Letters Patent which may hereafter be granted on the same in the United States and all countries throughout the world, including any divisions, renewals, continuations in whole or in part, substitutions, conversions, reissues, or prolongations or extensions thereof, said interest to be held and enjoyed by said ASSIGNEE as fully and exclusively as it would have been held and enjoyed by said ASSIGNORS had this assignment and transfer not been made, to the full extent and term of any Letters Patent.

ASSIGNORS further agree that ASSIGNORS will, without charge to said ASSIGNEE, but at ASSIGNEE's expense, cooperate with ASSIGNEE in the prosecution of said application and/or applications; execute, verify, acknowledge, and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof; and perform such other acts as ASSIGNEE lawfully may request, to obtain or maintain Letters Patent for said invention and improvement in any and all countries, and to vest title thereto in said ASSIGNEE, or ASSIGNEE's successors and assigns.

IN TESTIMONY WHEREOF, ASSIGNORS have hereunto signed ASSIGNORS' names to this Assignment on the date indicated below.

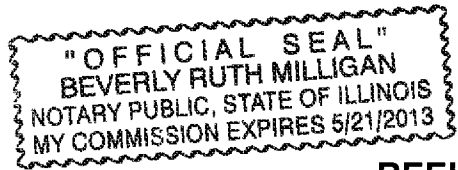
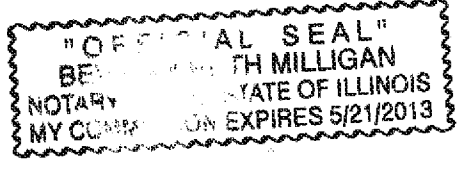
*Phillip B. Messersmith* 10/19/12  
\_\_\_\_\_ DATE  
PHILLIP B. MESSERSMITH

State of Illinois ss.  
County of Cook

On this 19th day of October, 2012, before me, a Notary Public in and for the County and State aforesaid, appeared, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he or she executed said instrument as his or her free and voluntary act and for the uses and purposes therein expressed.

[NOTARY SEAL]

*Beverly Ruth Milligan*  
\_\_\_\_\_  
NOTARY PUBLIC  
My Commission Expires: 5/21/2013



Assignment Document

Title of Invention: Substrate-Independent Layer-by-Layer Assembly Using Mussel Adhesive-Inspired Polymers  
Title of U.S. Patent: Substrate-Independent Layer-by-Layer Assembly Using Catechol-Functionalized Polymers  
Application Filing Date: November 10, 2008 Serial Number: 12/267,822

Title of Patent Application: Substrate-Independent Layer-by-Layer Assembly Using Catechol-Functionalized Polymers  
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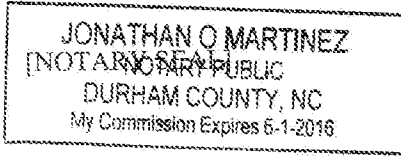
Leslie Hamming \_\_\_\_\_ 11/19/2012  
LESLIE HAMMING: DATE  
LESLEY

State of North Carolina ss.  
County of DURHAM

On this 15<sup>th</sup> day of NOVEMBER, 2012, before me, a Notary Public in and for the County and State aforesaid, appeared, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he or she executed said instrument as his or her free and voluntary act and for the uses and purposes therein expressed.

[Signature]  
NOTARY PUBLIC

My Commission Expires: JUNE 12 2016



Assignment for Execution

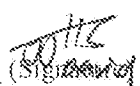
Serial 12/267,822 filed November 10, 2008

Serial 13/622,136 filed September 18, 2012

HAESHEN LEE   
(Signature)  
INVENTOR PRINTED NAME: HAESHEN LEE

DATE OF EXECUTION: November 7, 2012

FIRST WITNESS:

YOUNG CHANG SEO   
(Signature)  
Printed Name:

Witness Date: November 7, 2012

Home Address:  
110 ha, 104 Dong, Yoksam Lucky Apartment,  
Dogeok-dong, Gangnam Gu, Seoul  
South Korea

SECOND WITNESS:

JOSEPH P. PARK   
(Signature)  
Printed Name:

Witness Date: November 7, 2012

Home Address:  
Yangcheon Ku, Mokdong 549  
Kunhe Bestville 103-404, Seoul  
South Korea

Assignment Document

Title of Invention: Substrate-Independent Layer-by-Layer Assembly Using Mussel Adhesive-Inspired Polymers  
Title of U.S. Patent: Substrate-Independent Layer-by-Layer Assembly Using Catechol-Functionalized Polymers  
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Title of Patent Application: Substrate-Independent Layer-by-Layer Assembly Using Catechol-Functionalized Polymers  
Application Filing Date: September 18, 2012 Serial No.: 13/622,136

  
.....  
YUHUAN LEE


OCT 31 2012  
.....  
DATE

State of MASSACHUSETTS

ss.

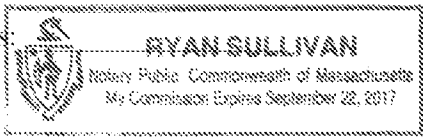
County of MIDDLESEX

On this 31<sup>st</sup> day of OCTOBER, 2012, before me, a Notary Public in and for the County and State aforesaid, appeared, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he or she executed said instrument as his or her free and voluntary act and for the uses and purposes therein expressed.

  
.....  
NOTARY PUBLIC

[NOTARY SEAL]

My Commission Expires:

  
RYAN SULLIVAN  
Notary Public Commonwealth of Massachusetts  
My Commission Expires September 22, 2017

Assignment Document

Title of Invention: Substrate-Independent Layer-by-Layer Assembly Using Mussel Adhesive-Inspired Polymers  
Title of U.S. Patent: Substrate-Independent Layer-by-Layer Assembly Using Catechol-Functionalized Polymers  
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Application Filing Date: September 18, 2012 Serial No.: 13/622,136

Zhongqiang Liu                      Nov. 7th, 2012  
ZHONGQIANG LIU                      DATE

State of Alberta  
County of Calgary ss.

On this 7th day of November, 2012, before me, a Notary Public in and for the County and State aforesaid, appeared, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he or she executed said instrument as his or her free and voluntary act and for the uses and purposes therein expressed.

Homan Chan                      **Homan CHAN**  
NOTARY PUBLIC                      A Notary Public in and  
for the Province of Alberta  
My appointment expires 12/31/2013  
My Commission Expires: \_\_\_\_\_

[NOTARY SEAL]

