

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Thomas P. Russell	10/12/2009
Soojin Park	10/14/2009
Dong Hyun Lee	10/14/2009
RECEIVING PARTY DATA	
Name:	THE UNIVERSITY OF MASSACHUSETTS
Street Address:	225 Franklin Street
City:	Boston
State/Country:	MASSACHUSETTS
Postal Code:	02110
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	12553484
CORRESPONDENCE DATA	
Fax Number:	(860)286-0115
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	860-286-2929
Email:	rgneda@cantorcolburn.com
Correspondent Name:	CANTOR COLBURN, LLP
Address Line 1:	20 Church Street
Address Line 2:	22nd Floor
Address Line 4:	Hartford, CONNECTICUT 06103
ATTORNEY DOCKET NUMBER:	UMA0028US2
NAME OF SUBMITTER:	J. Michael Buchanan

Total Attachments: 2
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**PATENT
 REEL: 023542 FRAME: 0437**

OP \$40.00 12553484

ASSIGNMENT

WHEREAS We, Thomas P. Russell of 10 Evening Star Drive, Amherst, MA 01002, Soojin Park of 1040 North Pleasant Street, Apt. 66, Amherst, MA 01002, and Dong Hyun Lee of 1040 North Pleasant Street, Apt. 66, Amherst, MA 01002; have invented certain new and useful improvements in:

**SELF-ASSEMBLY OF BLOCK COPOLYMERS ON TOPOGRAPHICALLY
PATTERNED POLYMERIC SUBSTRATES**

filed on September 3, 2009 as U.S. Application No. 12/553,484 and further identified as U.S. Provisional Application No. 61/170,707 filed April 20, 2009;

AND WHEREAS, THE UNIVERSITY OF MASSACHUSETTS, having a business address at 225 Franklin Street, Boston, MA 02110; is desirous of acquiring an interest in the United States and all foreign countries, in and to the said invention and any Letters Patent to be obtained therefor (hereinafter referred to as ASSIGNEE);

NOW THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that, for good and valuable consideration, the receipt of which is hereby acknowledged, We, the said ASSIGNORS have assigned and transferred, and hereby assign and transfer unto the said ASSIGNEE, the entire right, title and interest in and to said invention in the United States and in all foreign countries, including priority rights, as fully set forth and described in said application; and We do hereby authorize and request the Commissioner of Patents to issue any Letters Patent, and any and all Letters Patent that may be issued upon any and all utility applications, revivals, refilings, continuations, RCE's, continuations-in-part, divisions and reissues thereof, to the said ASSIGNEE, an assignee of the entire right, title and interest in and to the same, for the sole use and behoof of ASSIGNEE, its successors and assigns; and We do hereby agree that the said ASSIGNEE, may apply for foreign Letters Patent on said invention and that We will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by the said ASSIGNEE, its successors or assigns, and that We will, at the cost and expense of the said ASSIGNEE fully assist and cooperate in all matters in connection with the United States and foreign applications and patents issuing thereon.

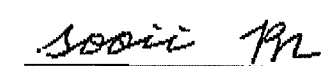
The undersigned declare that all statements made herein of their own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: 10/12/09



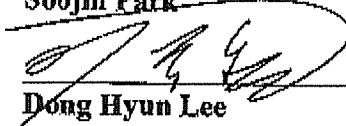
Thomas P. Russell L.S.

Date: 10/14/09



Soojin Park L.S.

Date: 10/14/09



Dong Hyun Lee L.S.