

## PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT2649455

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>THOMAS P. RUSSELL</td> <td>12/02/2013</td> </tr> <tr> <td>SOOJIN PARK</td> <td>10/08/2013</td> </tr> <tr> <td>JIA-YU WANG</td> <td>10/07/2013</td> </tr> <tr> <td>BOKYUNG KIM</td> <td>10/09/2013</td> </tr> </tbody> </table>		Name	Execution Date	THOMAS P. RUSSELL	12/02/2013	SOOJIN PARK	10/08/2013	JIA-YU WANG	10/07/2013	BOKYUNG KIM	10/09/2013
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THOMAS P. RUSSELL	12/02/2013										
SOOJIN PARK	10/08/2013										
JIA-YU WANG	10/07/2013										
BOKYUNG KIM	10/09/2013										
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											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13944329</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13944329						
Property Type	Number										
Application Number:	13944329										
CORRESPONDENCE DATA											
Fax Number:	(860)286-0115										
Phone:	8602862929										
Email:	rgneda@cantorcolburn.com										
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>											
Correspondent Name:	CANTOR COLBURN LLP										
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Address Line 2:	22ND FLOOR										
Address Line 4:	HARTFORD, CONNECTICUT 06103										
ATTORNEY DOCKET NUMBER:	UMA0024USD										
NAME OF SUBMITTER:	J. MICHAEL BUCHANAN										

OP \$40.00 13944329

Signature:	/J. Michael Buchanan/
Date:	12/16/2013
	This document serves as an Oath/Declaration (37 CFR 1.63).
<b>Total Attachments: 16</b> source=6Y95598#page1.tif source=6Y95598#page2.tif source=6Y95598#page3.tif source=6Y95598#page4.tif source=6Y95598#page5.tif source=6Y95598#page6.tif source=6Y95598#page7.tif source=6Y95598#page8.tif source=6Y95598#page9.tif source=6Y95598#page10.tif source=6Y95598#page11.tif source=6Y95598#page12.tif source=6Y95598#page13.tif source=6Y95598#page14.tif source=6Y95598#page15.tif source=6Y95598#page16.tif	

DECLARATION AND ASSIGNMENT

Title of Invention: METHOD OF PRODUCING NANOPATTERNED ARTICLES, AND ARTICLES PRODUCED THEREBY

As a below named inventor, I hereby declare that:

This declaration is directed to:

- [ ] the attached application (Attorney Docket Number \_\_\_\_\_), or
[x] United States application or PCT international application number 13/944329 filed on 07/17/2013, which is a division of 12/566705 filed 09/25/2009, which claims priority to 61/100004 filed 09/25/2008.

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I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR Section 1.56.

Whereas, each undersigned inventor has made certain inventions, improvements, and discoveries (herein referred to as the "INVENTION") disclosed in the above-identified patent application (herein referred to as the ("APPLICATION"));

Whereas, THE UNIVERSITY OF MASSACHUSETTS, having a business address at 225 Franklin Street, Boston, MA 02110 (herein referred to as "ASSIGNEE"), desires to attain or has attained, and each undersigned inventor desires to grant or has granted to ASSIGNEE, the entire worldwide right, title, and interest in and to the INVENTION and in and to any and all patent applications and patents directed thereto;

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, I, one of the undersigned inventors (herein referred to "ASSIGNOR"), hereby sells or has sold, assigns or has assigned, and otherwise transfers or has transferred to the ASSIGNEE, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the INVENTION, the APPLICATION, and any and all other patent applications and patents for the INVENTION which may be applied for or granted therefor in any and all countries and jurisdictions, including all divisionals, continuations, continuations-in-part, reissues, reexaminations, renewals, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents, and further including any right to sue for past infringement and to recover and retain damages and profits in respect thereof. In addition, I hereby authorize and request any official whose duty it is to issue patents, to issue any patent on said improvements or resulting therefrom to said ASSIGNEE, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by ASSIGNEE, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made; and I agree for myself and my respective heirs, legal representatives, and assigns, without further compensation, to execute any and all documents, oaths and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the INVENTION, the APPLICATION, and all related patents and applications, in ASSIGNEE, its successors, legal representatives, and assigns, whenever requested by ASSIGNEE, its successors, legal representatives, and assigns.

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Signature: [Handwritten Signature] Date: 12/2/13
Legal Name of Inventor: Thomas P. Russell

Witness Signature: [Handwritten Signature] Date: 12/2/13
Witness Signature: Debra M Troxell Date: 12-2-13

Printed Legal Name of Witness: Korie Levitan
Printed Legal Name of Witness: Debra M. Troxell

DECLARATION AND ASSIGNMENT

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Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Legal Name of Inventor: **Soojin Park**

\_\_\_\_\_  
Witness Signature Date: \_\_\_\_\_

\_\_\_\_\_  
Witness Signature Date: \_\_\_\_\_

\_\_\_\_\_  
Printed Legal Name of Witness

\_\_\_\_\_  
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Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Legal Name of Inventor: **Jia-Yu Wang**

\_\_\_\_\_  
Witness Signature Date: \_\_\_\_\_

\_\_\_\_\_  
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Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Legal Name of Inventor: **Bokyung Kim**

\_\_\_\_\_  
Witness Signature Date: \_\_\_\_\_

\_\_\_\_\_  
Witness Signature Date: \_\_\_\_\_

\_\_\_\_\_  
Printed Legal Name of Witness

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Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Legal Name of Inventor: **Thomas P. Russell**

\_\_\_\_\_  
Witness Signature Date: \_\_\_\_\_  
\_\_\_\_\_  
Witness Signature Date: \_\_\_\_\_

\_\_\_\_\_  
Printed Legal Name of Witness

\_\_\_\_\_  
Printed Legal Name of Witness **PATENT**

09-08-D (UMA0024USD)

**DECLARATION AND ASSIGNMENT**

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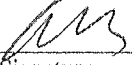
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Signature:  Date: 10/08/2013

Legal Name of Inventor: **Soojin Park**

Witness Signature:  Date: 10/08/2013

HYEON SUK SHIN  
Printed Legal Name of Witness

Witness Signature:  Date: 10/08/2013

조재필 (CHO, JAEPHIL)  
Printed Legal Name of Witness



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Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Legal Name of Inventor: **Jia-Yu Wang**

\_\_\_\_\_  
Witness Signature Date: \_\_\_\_\_

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Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Legal Name of Inventor: **Bokyung Kim**

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Date: \_\_\_\_\_  
Witness Signature

\_\_\_\_\_  
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Legal Name of Inventor: **Thomas P. Russell**

\_\_\_\_\_  
Date: \_\_\_\_\_  
Witness Signature

\_\_\_\_\_  
Date: \_\_\_\_\_  
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Printed Legal Name of Witness

Printed Legal Name of Witness **PATENT**

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Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Legal Name of Inventor: **Soojin Park**

\_\_\_\_\_  
Witness Signature Date: \_\_\_\_\_

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Signature: Jia-Yu Wang Date: 10/07/2013  
Legal Name of Inventor: Jia-Yu Wang

Kathleen Cao Date: 10/07/13 Michael Henderson Date: 10/07/13  
Witness Signature Witness Signature

Kathleen Cao  
Printed Legal Name of Witness

Michael Henderson  
Printed Legal Name of Witness

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Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Legal Name of Inventor: **Bokyoung Kim**

\_\_\_\_\_  
Witness Signature Date: \_\_\_\_\_

\_\_\_\_\_  
Witness Signature Date: \_\_\_\_\_

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Printed Legal Name of Witness

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Legal Name of Inventor: **Thomas P. Russell**

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Legal Name of Inventor: **Jia-Yu Wang**

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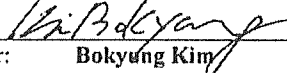
Title of Invention: **METHOD OF PRODUCING NANOPATTERNED ARTICLES, AND ARTICLES PRODUCED THEREBY**

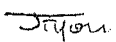
As a below named inventor, I hereby declare that:

This declaration is directed to:

the attached application (Attorney Docket Number \_\_\_\_\_), or

United States application or PCT international application number 13/944329 filed on 07/17/2013, which is a division of 12/566705 filed 09/25/2009, which claims priority to 61/100004 filed 09/25/2008.

Signature:  Date: 10/09/2013  
Legal Name of Inventor: **Bokyoung Kim**

 Date: 10/09/2013  
Witness Signature

ST-Youn, Seo  
Printed Legal Name of Witness

 Date: 10/09/2013  
Witness Signature

WOONG-PYO, HONG  
Printed Legal Name of Witness