

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Songbin Gong	12/17/2014
Gianluca Piazza	12/18/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	University of Pennsylvania
<b>Street Address:</b>	Center for Technology Transfer 3700 Market Street Suite 300
<b>City:</b>	Philadelphia
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	19104
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15857323
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(877)769-7945
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<b>Phone:</b>	(617) 368-2135
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<b>Address Line 1:</b>	FISH & RICHARDSON P.C.
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<b>Address Line 4:</b>	MINNEAPOLIS, MINNESOTA 55440-1022
<b>ATTORNEY DOCKET NUMBER:</b>	26100-0029002
<b>NAME OF SUBMITTER:</b>	MARY FLORCZAK
<b>SIGNATURE:</b>	/Mary Florczak/
<b>DATE SIGNED:</b>	01/02/2018
<b>Total Attachments: 4</b>	
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ASSIGNMENT

For valuable consideration, the receipt of which we acknowledge, and intending to be bound legally, we, SONGBIN GONG and GIANLUCA PIAZZA, each individually assign to:

- (i) CARNEGIE MELLON UNIVERSITY, a corporation formed under the laws of Pennsylvania and having a principal place of business at, 5000 Forbes Avenue, Pittsburgh, Pennsylvania 15213, and its successors, transferees, and assignees, and
- (ii) UNIVERSITY OF PENNSYLVANIA, a corporation formed under the laws of Pennsylvania and having a principal place of business at, Center for Technology Transfer, 3700 Market Street, Suite 300, Philadelphia, PA 19104, and its successors, transferees, and assignees,


all of our individual and joint right, title, and interest throughout the world in the subject matter (the "Subject Matter") of a patent application that names us as inventors, is titled "MICROELECTRONIC STRUCTURES WITH SUSPENDED LITHIUM-BASED THIN FILMS", and was filed in the United States Patent and Trademark Office on December 12, 2014, as application 14/407,762 (the "Application"). CARNEGIE MELLON UNIVERSITY (and its successors, transferees, and assignees) and UNIVERSITY OF PENNSYLVANIA (and its successors, transferees, and assignees) are collectively referred to as the "Assignee."

This Assignment assigns (a) the Application and all other applications that may be made for, and all patents, utility models, design registrations, and other rights of exclusion and inventors' certificates for, any of the Subject Matter (collectively the "Applications and Granted Rights") in every country or region, (b) the right to claim priority based on and the benefit of the filing date of any of the Applications and Granted Rights under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other applicable treaties or conventions, and (c) the right to pursue, collect, and retain in the Assignee's name or otherwise, damages and any other remedies arising from any past, present, or future infringement of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment.

We authorize the Assignee to apply for and pursue protection for any or all of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment in all countries, regions, and territories of the world, in our names or in the Assignee's name.

We represent and warrant that we have the right and power to make this Assignment and that we have not made and will not make any other assignment that conflicts with this Assignment.

We will communicate to the Assignee (or at the request of the Assignee to other parties) all known facts in any form relating to the Subject Matter, will execute and provide all oaths and declarations, statements, testimony, assignments, powers of attorney, applications, and documents, and will perform all other lawful acts necessary or desirable to secure fully to the Assignee the rights, titles, and interests assigned by this Assignment.

  
\_\_\_\_\_  
Songbin Gong

Date: Dec. 17th 2014

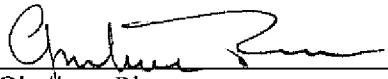
Witnessed by:

Signature:  Date: 12/17/14

Print Name: K. NANDINI TOPUDURTI

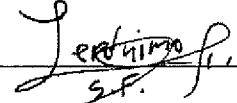
Signature:  Date: 12.17.14

Print Name: Kelly C Foster

  
Gianluca Piazza

Date: 12/18/2014

Witnessed by:

Signature:   
S.F.

Date: 12/18/2014

Print Name: JERONNO SEGOVIA-FERNANDEZ

Signature: Changting Xu

Date: 12/18/2014

Print Name: Changting Xu

The Assignee hereby acknowledges and accepts the foregoing assignment.

Assignee: CARNEGIE MELLON UNIVERSITY

Signature: [Handwritten Signature]

Date: 12/18/2014

Name: Robert A. Wooldridge

Title: Director, Center for Technology Transfer & Enterprise Creation, Carnegie Mellon University

COMMONWEALTH OF PENNSYLVANIA )  
COUNTY OF Allegheny )SS:

On this, the 18 day of December, 2014, before me a notary public, the undersigned officer, personally appeared, Robert A. Wooldridge known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purposes therein contained.

In witness whereof, I hereunto set my hand and official seal.

[Handwritten Signature]  
Notary Public

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