

## PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

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>Zheng Ouyang</td> <td>07/18/2011</td> </tr> <tr> <td>R. Graham Cooks</td> <td>07/20/2011</td> </tr> <tr> <td>Liang Gao</td> <td>07/30/2011</td> </tr> </tbody> </table>		Name	Execution Date	Zheng Ouyang	07/18/2011	R. Graham Cooks	07/20/2011	Liang Gao	07/30/2011
Name	Execution Date								
Zheng Ouyang	07/18/2011								
R. Graham Cooks	07/20/2011								
Liang Gao	07/30/2011								
RECEIVING PARTY DATA									
Name:	Purdue Research Foundation								
Street Address:	1281 Win Hentschel Blvd.								
City:	West Lafayette								
State/Country:	INDIANA								
Postal Code:	47906								
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>13633281</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13633281				
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Application Number:	13633281								
CORRESPONDENCE DATA									
Fax Number:									
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
Email:	ip@brownrudnick.com								
Correspondent Name:	Adam M. Schoen, Brown Rudnick LLP								
Address Line 1:	One Financial Center								
Address Line 4:	Boston, MASSACHUSETTS 02111								
ATTORNEY DOCKET NUMBER:	PURD-004/02US 28593/66								
NAME OF SUBMITTER:	Adam M. Schoen								
Signature:	/Adam M. Schoen/								
Date:	05/16/2013								

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**Total Attachments: 7**

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## ASSIGNMENT

WHEREAS, *WE, ZHENG OUYANG*, citizen of *China*; *R. GRAHAM COOKS*, citizen of the *United States*; *LIANG GAO*, citizen of *China*; and (hereinafter "Assignors"), have made or developed a technology, generally known as:

**"DISCONTINUOUS ATMOSPHERIC PRESSURE INTERFACE",**

which is further described in a United States patent application filed on November 20, 2009, and accorded Application No. 12/622,776, ("Technology"); and

WHEREAS, Purdue Research Foundation, a statutory body corporate formed and existing under the Indiana Foundation or Holding Companies Act of 1921, having a place of business at *1281 Win Hentschel Blvd, West Lafayette, IN 47906* (hereinafter "Assignee"), is desirous of accepting and assuming all such right, title, and interests of the Assignor.

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, the Assignor(s) do hereby sell, transfer, convey, assign and deliver unto the Assignee, its successors, assigns and legal representatives, any and all intellectual property rights related to the Technology, including but not limited to: all precursors, portions, and works in progress with respect thereto and all inventions, works of authorship, masks works, technology, information, know-how, materials and tools relating thereto or to the development, support or maintenance thereof; all copyright, patent rights, trade secret rights, trademark rights, mask works rights, and all other intellectual property rights and all business, contract rights and goodwill in, incorporated or embodied in, used to develop, or related to any of the foregoing and any registrations and applications for registrations of the foregoing throughout the United States of America and the world and any and all other applications arising therefrom, including any and all divisions and continuations of the Technology, and any and all patents to be issued and obtained therefore and thereon, in the United States and throughout the world, including all reissues, substitutions, supplements, and extensions thereof (collectively, the "Intellectual Property");

**AND WE HEREBY** agree to communicate to Assignee or its representative any facts known to us respecting the Technology whether or not patentable, which we may conceive, develop, make, produce or reduce to practice in whole or in part as a result of any employment, research, or activity involving or relating to the use of Purdue University resources; and agree to sign all lawful documents and make all rightful oaths and declarations relating to said Technology and Intellectual Property; authorize Assignee to insert herein the date of application, serial number, date of registration, and registration number of patents issued once known; and agree to otherwise aid ASSIGNEE as necessary and desirable to:

1. Obtain, enforce, and maintain any issued letters patent in the United States or throughout the world, when reasonably requested to do so by Assignee, including but not limited to executing, acknowledging, and delivering to Assignee such written documents and instruments as Assignee requests and giving testimony in support of Assignee's inventorship, as may be necessary in Assignee's opinion to obtain and maintain patents in the United States of America and throughout the world;

2. Secure or aid in securing and maintaining copyright protection in the Intellectual Property and assist Assignee or its nominees in filing applications to register copyright in the name of Assignee as owner in such Intellectual Property; and

3. Execute, acknowledge, and deliver to Assignee at its expense, such written documents and instruments and do such other acts as may be necessary in the opinion of Assignee, to vest the entire rights, title, and interests in and to the Intellectual Property to Assignee and to confirm the complete ownership thereof by Assignee.

**AND WE HEREBY** authorize ASSIGNEE to take any and all action necessary to effectuate this Assignment, including but not limited to, the filing of the Assignment with the U.S. Patent and Trademark Office and U.S. Copyright Office.

**AND WE HEREBY** authorize and request the Director of the U.S. Patent and Trademark Office or any other proper officer or agency throughout the world to issue any and all said letters patent to Assignee.

**AND WE HEREBY** warrant and covenant that *we* have full rights to convey the entire right, title and interest herein assigned and that *we* have not executed and will not execute any instrument or assignment in conflict herewith;

This Assignment shall be binding upon Assignor(s) and their heirs, successors, and assigns. Should any term of this Assignment be found invalid or unenforceable, it shall not affect the validity or enforceability of any other term of this Assignment. The laws of the State of Indiana will govern the interpretation, validity, and effect of this Assignment, without regard to the place of making or to the place of performance.

*[SIGNATURES ON NEXT PAGE]*

IN WITNESS WHEREOF, *We* have hereunto set our hands and seals.

ASSIGNOR:

July 18, 2011  
Date

Zheng Ouyang  
ZHENG OUYANG

County of Tippecanoe

State of Indiana )

SS:

On this 18 day of July 2011, before me a Notary Public in and for the County and State aforesaid, personally appeared *Zheng Ouyang*, to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and acknowledged the same to be of *his/her* free act and deed.

Bambra K. Miller  
Notary Public

(SEAL)

My commission Expires May 26, 2012

IN WITNESS WHEREOF, We have hereunto set our hands and seals.

ASSIGNOR:

7/20/11  
Date

R. Grahams  
R. GRAHAM COOKS

County of TIPPECANOE)  
State of INDIANA)

ss:

On this 20th day of July 2011, before me a Notary Public in and for the County and State aforesaid, personally appeared R. Graham Cooks, to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and acknowledged the same to be of *his/her* free act and deed.

Donna D. Wilkinson  
Notary Public

(SEAL)

My commission Expires 2/25/15

**DONNA D. WILKINSON**  
NOTARY PUBLIC, STATE OF INDIANA  
MY COMMISSION EXPIRES FEBRUARY 25, 2015

07/30/2011  
Date

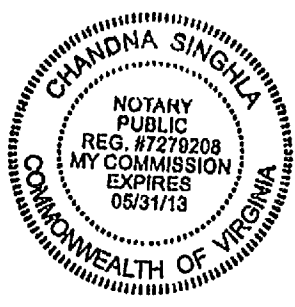
*[Signature]*  
HINDU

County of Loudoun

State of VIRGINIA

On this 30 day of July 2011, before me a Notary Public in and for the County and State aforesaid, personally appeared *[Name]*, to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and acknowledged the same to be of *his/her* free act and deed.

(SEAL)



*[Signature]*  
Notary Public

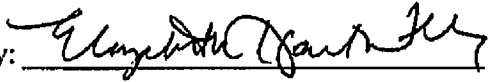
My Commission Expires 05/31/2013

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ACCEPTED BY ASSIGNEE:

2 August 2011  
Date

By: 

Printed: Elizabeth A. Hart-Wells

Title: Assistant Vice-President and Director

Office of Technology Commercialization

Purdue Research Foundation