

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT6438183

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
QIAO LIN	02/01/2017
YIBO ZHU	02/01/2017
JUNYI SHANG	02/01/2017
ZHIXING ZHANG	02/03/2017
XUEJUN WANG	02/01/2017
JAEOUNG YANG	02/23/2017
CHENG WANG	02/20/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK
<b>Street Address:</b>	412 LOW MEMORIAL LIBRARY
<b>Internal Address:</b>	535 WEST 116TH STREET
<b>City:</b>	NEW YORK
<b>State/Country:</b>	NEW YORK
<b>Postal Code:</b>	10027
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16810183
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(212)408-2501
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	2124082500
<b>Email:</b>	dlnydocket@bakerbotts.com
<b>Correspondent Name:</b>	BAKER BOTTS L.L.P.
<b>Address Line 1:</b>	30 ROCKEFELLER PLAZA
<b>Address Line 4:</b>	NEW YORK, NEW YORK 10112
<b>ATTORNEY DOCKET NUMBER:</b>	070050.6357 (1)
<b>NAME OF SUBMITTER:</b>	RUTH J. OLIVO
<b>SIGNATURE:</b>	/Ruth J. Olivo/

DATE SIGNED:	12/08/2020
<b>Total Attachments: 10</b> source=Executed assignment - Lin Zhu Shang Zhang X. Wang Yang C. Wang#page1.tif source=Executed assignment - Lin Zhu Shang Zhang X. Wang Yang C. Wang#page2.tif source=Executed assignment - Lin Zhu Shang Zhang X. Wang Yang C. Wang#page3.tif source=Executed assignment - Lin Zhu Shang Zhang X. Wang Yang C. Wang#page4.tif source=Executed assignment - Lin Zhu Shang Zhang X. Wang Yang C. Wang#page5.tif source=Executed assignment - Lin Zhu Shang Zhang X. Wang Yang C. Wang#page6.tif source=Executed assignment - Lin Zhu Shang Zhang X. Wang Yang C. Wang#page7.tif source=Executed assignment - Lin Zhu Shang Zhang X. Wang Yang C. Wang#page8.tif source=Executed assignment - Lin Zhu Shang Zhang X. Wang Yang C. Wang#page9.tif source=Executed assignment - Lin Zhu Shang Zhang X. Wang Yang C. Wang#page10.tif	

ASSIGNMENT

560 Riverside Dr, 19L,  
 WHEREAS, WE, Qiao Lin, a citizen of the United States, having a residence address at ~~500 W. 120th Street~~, New York, NY 10027; Yibo Zhu, a citizen of China, having a residence address at 195 Claremont Avenue, Apt. 69B, New York, NY 10027; Junyi Shang, a citizen of ~~the United States~~, having a residence address at ~~500 W. 120th Street~~, New York, NY 10027; Zhixing Zhang, a citizen of the United States, having a residence address at 500 W. 120th Street, New York, NY 10027; Xuejun Wang, a citizen of China, having a residence address at ~~500 West 120th Street~~, New York, NY 10027; Jaeyoung Yang, a citizen of Korea, having a residence address at 610 W 115th street, Apt. 73A, New York, NY 10025; and Cheng Wang, a citizen of China, having a residence address at 500 West 120th Street, New York, NY 10027; (hereinafter "ASSIGNORS"), have made an invention entitled "GRAPHENE-BASED NANOSENSOR FOR IDENTIFYING TARGET ANALYTES" as set forth and described in U.S. Application No. 15/374,375, filed December 9, 2016; and

*China*  
*600 W 113th street, 6CJ.*  
*New York, NY 10025*  
*JS*  
*500 W 120th St*  
*Apt 42*  
*New York, NY 10027*

WHEREAS, THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK (hereinafter "ASSIGNEE"), having its principal place of business at 412 Low Memorial Library, 535 West 116th Street, New York, NY, 10027, is desirous of acquiring the whole right, title and interest in and to said application for Letters Patent, and any continuations, divisions, extensions, substitutions, reissues and reexaminations thereof;

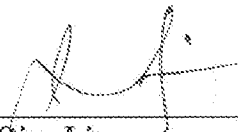
NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, BE IT KNOWN, that I, the said ASSIGNORS, for and in consideration of valuable considerations unto us moving from said ASSIGNEE, at or before the ensealing and delivery of these presents, the receipt and sufficiency of which is hereby acknowledged, have sold, assigned, transferred and conveyed and by these presents do sell, assign, transfer and convey, unto said ASSIGNEE, its successors and assigns, the entire right, title and interest in and to the said invention entitled "GRAPHENE-BASED NANOSENSOR FOR IDENTIFYING TARGET ANALYTES" and any and all improvements thereto, and in and to said application and any division, continuation or continuation-in-part thereof, and in and to any Letters Patent of the United States which may be issued on any of said applications, and any reissues thereof, and in and to any and all applications for Letters Patent filed in foreign countries for said invention or improvements including all priority rights, and any and all Letters Patent which may be granted in foreign countries therefor, and in and to any other applications based in whole or in part on any of the foregoing, TO HAVE AND TO HOLD THE SAME to the full end of the term or terms for which any and all said Letters Patent may be granted;

AND WE, the said ASSIGNORS, do hereby authorize and request the Commissioner of Patents and Trademarks to issue the said Letters Patent of the United States to said ASSIGNEE, as the assignee of the entire right, title and interest in and to the same, for the sole use and benefit of said ASSIGNEE, its successors and assigns;

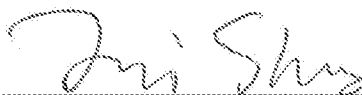
AND WE, the said ASSIGNORS, for the considerations aforesaid, do hereby covenant and agree to and with said ASSIGNEE, its successors and assigns, that we have the full power to make this assignment, and that the rights assigned are not encumbered by any grant, license or right heretofore given, and that we, our executors or administrators, shall and will do all lawful

acts and things and make, execute and deliver without further compensation, any and all other instruments in writing, further applications, papers, affidavits, powers of attorney, assignments, and other documents which, in the opinion of counsel for said **ASSIGNEE**, its successors and assigns, may be required or necessary more effectively to secure to and vest in said **ASSIGNEE**, its successors and assigns, the entire right, title and interest in and to said invention and improvements, applications, Letters Patent, rights, titles, benefits, privileges, and advantages hereby sold, assigned, transferred and conveyed, and that we will sign any applications for reissue which may be desired by the owner of the patent or patents which may be issued for the said invention or improvements.

IN WITNESS WHEREOF, I, the said **ASSIGNOR** have executed this Assignment this  
1st day of February, 2017



Qiao Lin



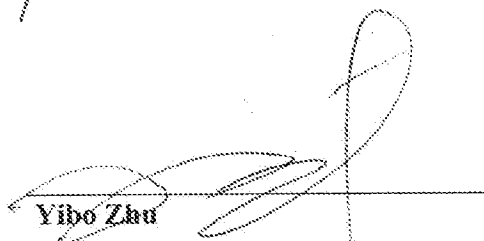
Witness Signature

JUNYI SHANG

Witness Name

IN WITNESS WHEREOF, I, the said ASSIGNOR have executed this Assignment this

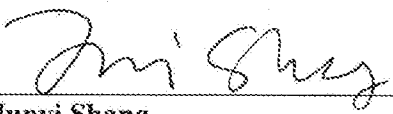
1st day of February, 201 7


  
Yibo Zhu

  
Witness Signature

ZHUANG HAO  
Witness Name


IN WITNESS WHEREOF, I, the said ASSIGNOR have executed this Assignment this  
1st day of February, 2017.

  
\_\_\_\_\_  
Junyi Shang

  
\_\_\_\_\_  
Witness Signature  
CHAO SU  
\_\_\_\_\_  
Witness Name

IN WITNESS WHEREOF, I, the said **ASSIGNOR** have executed this Assignment this  
3rd day of February, 2017.

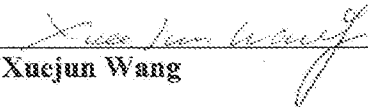
  
\_\_\_\_\_  
Zhixing Zhang

  
\_\_\_\_\_  
Witness Signature  
YIPU ZHU  
\_\_\_\_\_  
Witness Name



IN WITNESS WHEREOF, I, the said ASSIGNOR have executed this Assignment this

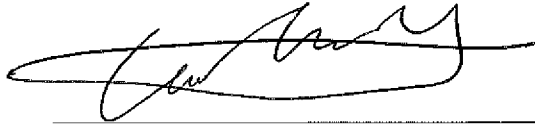
1st day of February, 2017.

  
Xuejun Wang

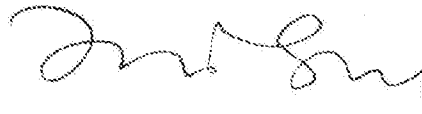
  
Witness Signature  
JUNYI SHANG  
Witness Name

PATENT

IN WITNESS WHEREOF, I, the said **ASSIGNOR** have executed this Assignment this  
23rd day of February, 2017.



**Jaeyoung Yang**



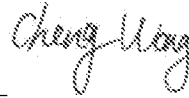
Witness Signature

JUNYI SHANG

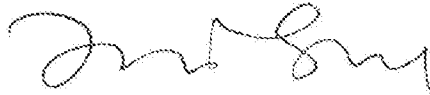
Witness Name

PATENT

IN WITNESS WHEREOF, I, the said **ASSIGNOR** have executed this Assignment this  
20th day of February, 201 7.



\_\_\_\_\_  
**Cheng Wang**



\_\_\_\_\_  
Witness Signature

JUNYI SHANG

\_\_\_\_\_  
Witness Name

### ACCEPTANCE BY ASSIGNEE

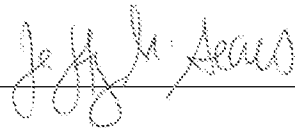
In connection with an assignment in any jurisdiction in which an acceptance by ASSIGNEE is required, I hereby accept this assignment on behalf of The Trustees of Columbia University in the City of New York. I declare under penalty of perjury under the laws of the United States of America, and under penalty of the laws of any other jurisdiction before which this document may be presented, that (check all that apply):

☒ I am an officer of the above-identified ASSIGNEE,

☒ I have signed this document on behalf of ASSIGNEE with the full authority of the ASSIGNEE.

and that all the foregoing is true and correct.

Dated: 10/25/20

By:   
Name:  
Title:

Jeffrey M. Seare, Ph.D.  
Associate General Counsel  
Columbia University