

PATENT ASSIGNMENT

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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>Jun Liu</td> <td>01/05/2011</td> </tr> <tr> <td>Daiwon Choi</td> <td>12/02/2010</td> </tr> <tr> <td>Wendy D. Bennett</td> <td>12/02/2010</td> </tr> <tr> <td>Gordon L. Graff</td> <td>12/02/2010</td> </tr> <tr> <td>Yongsoon Shin</td> <td>12/02/2010</td> </tr> </tbody> </table>		Name	Execution Date	Jun Liu	01/05/2011	Daiwon Choi	12/02/2010	Wendy D. Bennett	12/02/2010	Gordon L. Graff	12/02/2010	Yongsoon Shin	12/02/2010
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<table border="1"> <tr> <td>Name:</td> <td>Battelle Memorial Institute</td> </tr> <tr> <td>Street Address:</td> <td>902 Battelle Boulevard</td> </tr> <tr> <td>City:</td> <td>Richland</td> </tr> <tr> <td>State/Country:</td> <td>WASHINGTON</td> </tr> <tr> <td>Postal Code:</td> <td>99352</td> </tr> </table>		Name:	Battelle Memorial Institute	Street Address:	902 Battelle Boulevard	City:	Richland	State/Country:	WASHINGTON	Postal Code:	99352		
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PROPERTY NUMBERS Total: 1													
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CORRESPONDENCE DATA													
Fax Number: (503)595-5301 Phone: (503) 595-5300 Email: erin.vaughn@klarquist.com <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i> Correspondent Name: Lisa M. Caldwell, Klarquist Sparkman LLP Address Line 1: 121 SW Salmon Street, Suite 1600 Address Line 4: Portland, OREGON 97204													
ATTORNEY DOCKET NUMBER:	23-89041-01												
NAME OF SUBMITTER:	Lisa M. Caldwell												

CH \$40.00 12901527

Total Attachments: 7

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ASSIGNMENT

Jun Liu
Daiwon Choi
Wendy D Bennett
Gordon L Graff
Yongsoon Shin

To

Battelle Memorial
Institute

WHEREAS we, Jun Liu, of Richland, in the County of Benton, and State of Washington; Daiwon Choi, of State College, and State of Pennsylvania; Wendy D Bennett, of Richland, in the County of Benton, and State of Washington; Gordon L Graff, of West Richland, in the County of Benton, and State of Washington; and, Yongsoon Shin, of Kennewick, in the County of Benton, and State of Washington; have made certain inventions in Titania-Graphene Anode Electrode Paper for which we are about to make application for Letters Patent of the United States; and

WHEREAS Battelle Memorial Institute, a corporation of Ohio, organized and existing under the laws of the State of Ohio, and having a place of business in the City of Richland, Washington, is desirous of acquiring an interest in the said invention and in any patent or patents to be obtained therefor;

NOW, THEREFORE, To All Whom It May Concern, be it known that, for and in consideration of the sum of One Dollar (\$1.00) each, and other good and valuable considerations, the receipt of which is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto the said Battelle Memorial Institute, the entire right, title, and interest in and to the invention shown, described, or claimed therein, and the full and exclusive right and title to the said application, executed by us on the _____ day of December, 2010, preparatory to obtaining Letters Patent of the United States therefor; and in and to any extensions, reissues, divisions, or renewals thereof; and we do hereby authorize and request the Commissioner of Patents or other proper Officer, to issue such Letters Patent, or any of them to the said Battelle Memorial Institute, as the assignee of our entire right, title, and interest in and to the same for the sole use and benefit of the said Battelle Memorial Institute, and its successors or assigns.

And we further covenant and agree that we will, at the request and expense of the said Battelle Memorial Institute, execute such other and further assurances of title as may be necessary or proper to fully convey the interest herein sought to be conveyed; that we will, at the request and expense of the said Battelle Memorial Institute, execute such application papers as may be desired by the said Battelle Memorial Institute, for the filing of any division or renewal of the application herein conveyed, or for reissues or extensions, or any Letters Patent that may be granted upon said application, and will execute such Supplemental Oaths and Preliminary Statements, or other papers as desired by the said Battelle Memorial Institute.

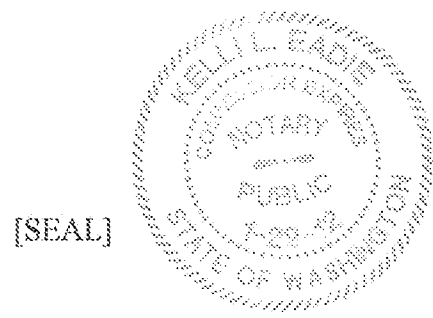
And we further assign unto the said Battelle Memorial Institute, the whole right, title, and interest to the invention disclosed in the application throughout all countries foreign to the United States, and do hereby authorize the said Battelle Memorial Institute to apply for patents therefor in its own name in countries where such procedure is proper and to claim the benefit of the International Convention and agree to execute applications of the said invention in the several countries where it is necessary that the same be executed by the inventors, and to execute assignments of such applications and the patents to be obtained therefor to the said Battelle Memorial Institute, the assignee herein, as well as all other necessary papers.

Executed at Richland, State of Washington, this Jan 5, 2011 day of December, 2010.

[Signature]
Jun Liu

STATE OF WASHINGTON)
) ss.
COUNTY OF BENTON)

This 5th day of January, 2011, before me personally came the above-named Jun Liu, who executed the foregoing instrument in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.



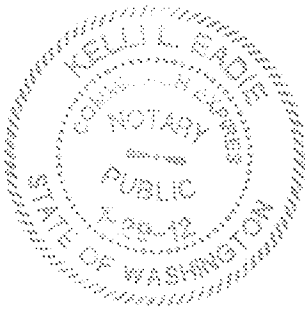
[Signature]
Notary Public for the State of Washington
My commission expires: 1/29/12

Executed at Richland, State of Pennsylvania, this 2 day of December, 2010.

Daiwon Choi
Daiwon Choi

STATE OF PENNSYLVANIA)
) ss.
COUNTY OF)

This 2nd day of December, 2010, before me personally came the above-named Daiwon Choi, who executed the foregoing instrument in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.



[SEAL]

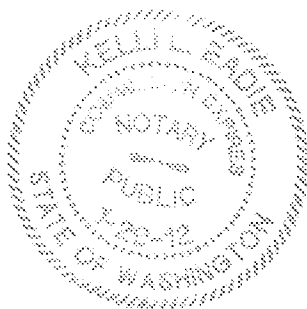
Kelly L. Eadie
Notary Public for the State of Pennsylvania
My commission expires: 1/29/12

Executed at Richland, State of Washington, this 2 day of December, 2010.

Wendy D Bennett
Wendy D Bennett

STATE OF WASHINGTON)
) ss.
COUNTY OF BENTON)

This 2nd day of December, 2010, before me personally came the above-named Wendy D Bennett, who executed the foregoing instrument in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.



[SEAL]

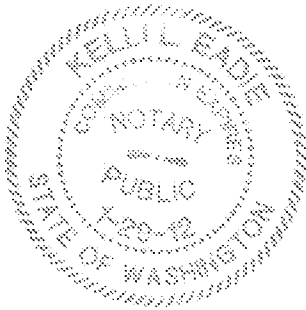
Kelli L. Eadie
Notary Public for the State of Washington
My commission expires: 1/29/12

Executed at Richland, State of Washington, this 22 day of December, 2010.

Gordon L Graff
Gordon L Graff

STATE OF WASHINGTON)
) ss.
COUNTY OF BENTON)

This 22nd day of December, 2010, before me personally came the above-named Gordon L Graff, who executed the foregoing instrument in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.



[SEAL]

Kelly L Eadie
Notary Public for the State of Washington
My commission expires: 1/29/12

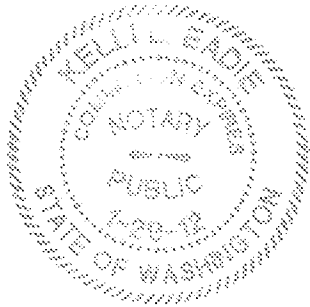
Executed at Richland, State of Washington, this 2nd day of December, 2010.

Yongsoo Shin
Yongsoo Shin

STATE OF WASHINGTON)
) ss.
COUNTY OF BENTON)

This 2nd day of December, 2010, before me personally came the above-named Yongsoo Shin, who executed the foregoing instrument in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.

[SEAL]



Kelli Eadie
Notary Public for the State of Washington
My commission expires: 1/29/12