

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT2686385

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>LIYU LI</td> <td>09/28/2010</td> </tr> <tr> <td>SOOWHAN KIM</td> <td>09/28/2010</td> </tr> <tr> <td>ZHENGUO YANG</td> <td>09/28/2010</td> </tr> <tr> <td>WEI WANG</td> <td>09/28/2010</td> </tr> <tr> <td>JIANLU ZHANG</td> <td>09/28/2010</td> </tr> <tr> <td>BAOWEI CHEN</td> <td>09/28/2010</td> </tr> <tr> <td>ZIMIN NIE</td> <td>09/28/2010</td> </tr> <tr> <td>GUANGUANG XIA</td> <td>09/28/2010</td> </tr> </tbody> </table>		Name	Execution Date	LIYU LI	09/28/2010	SOOWHAN KIM	09/28/2010	ZHENGUO YANG	09/28/2010	WEI WANG	09/28/2010	JIANLU ZHANG	09/28/2010	BAOWEI CHEN	09/28/2010	ZIMIN NIE	09/28/2010	GUANGUANG XIA	09/28/2010
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RECEIVING PARTY DATA																			
<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																			
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>14105823</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14105823														
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Application Number:	14105823																		
CORRESPONDENCE DATA																			
Fax Number:	(503)595-5301																		
Phone:	(503) 595-5300																		
Email:	erin.vaughn@klarquist.com																		
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</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:	23-90532-11
NAME OF SUBMITTER:	LISA M. CALDWELL
Signature:	/Lisa M. Caldwell/
Date:	01/16/2014
Total Attachments: 11 source=23-90532-11_Assignment#page1.tif source=23-90532-11_Assignment#page2.tif source=23-90532-11_Assignment#page3.tif source=23-90532-11_Assignment#page4.tif source=23-90532-11_Assignment#page5.tif source=23-90532-11_Assignment#page6.tif source=23-90532-11_Assignment#page7.tif source=23-90532-11_Assignment#page8.tif source=23-90532-11_Assignment#page9.tif source=23-90532-11_Assignment#page10.tif source=23-90532-11_Assignment#page11.tif	

ASSIGNMENT OF PATENT RIGHTS

Liyu Li
Soowhan Kim
Zhenguo Yang
Wei Wang
Jianlu Zhang
Baowei Chen
Zimin Nie
Guanguang Xia

To
Battelle Memorial Institute

WHEREAS, we, Liyu Li of Richland, County of Benton, State of Washington, Soowhan Kim of Richland, County of Benton, State of Washington, Zhenguo Yang of Richland, County of Benton, State of Washington, Wei Wang of Richland, County of Benton, State of Washington, Jianlu Zhang of Richland, County of Benton, State of Washington, Baowei Chen of Richland, County of Benton, State of Washington, Zimin Nie of Richland, County of Benton, State of Washington, and Guanguang Xia of Pasco, County of Franklin, State of Washington; hereinafter INVENTORS, have made certain inventions related to, **Redox Flow Batteries Based on Supporting Solutions Containing Chloride**, including those, described and claimed in various disclosures including:

U.S. Patent Application No. 12/892,693 filed September 28, 2010, Entitled: **Redox Flow Batteries Based on Supporting Solutions Containing Chloride**

For which we are about to make application for Letters Patent of the United States; collectively referred to hereinafter as INVENTIONS;

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 all right, title, and interest in the said INVENTIONS and in all patents or patent applications sought or obtained therefor;

NOW, THEREFORE, be it known to all those who may be concerned, 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 the INVENTORS have each 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 INVENTIONS shown, described, or claimed herein, and the full and exclusive right, title, and interest to any and all patents and patent applications that show, describe or claim said INVENTIONS including but not limited to those applications referenced herein, and in and to any extensions, continuations, including continuations in part, reissues, divisions, or renewals thereof; and We each 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 my 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.

We each further covenant and agree that we each 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; and that each of us 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 (including continuations or continuations in part

applications), 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.

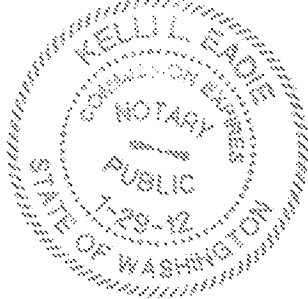
We each further assign unto the said Battelle Memorial Institute, the whole right, title, and interest to the invention disclosed in the application throughout all countries foreign to the United States, and do hereby authorize the said Battelle Memorial Institute to apply for patents therefor in its own name in countries where such procedure is proper and to claim the benefit of International Conventions 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 28 day of September, 2010.

[Signature]
Liyu Li

STATE OF WASHINGTON)
) ss.
County of Benton)

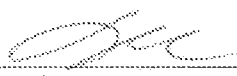
This 28 day of September, 2010, before me personally came the above-named Liyu Li who executed the foregoing instrument in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.



[SEAL]

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

Executed at Richland, State of Washington, this 28 day of 9, 2010.

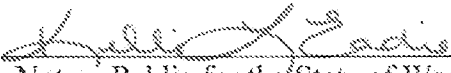

Soowhan Kim

STATE OF WASHINGTON)
) ss.
County of Benton)

This 28th day of September, 2010, before me personally came the above-named Soowhan Kim 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]

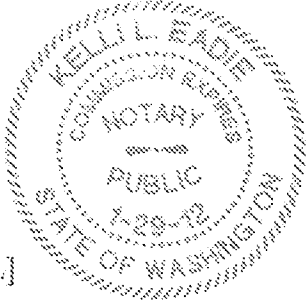

Notary Public for the State of Washington.
My commission expires: 1/29/12

Executed at Richland, State of Washington, this 28 day of September, 2010.

Zhenguo Yang
Zhenguo Yang

STATE OF WASHINGTON)
) ss.
County of Benton)

This 28th day of September, 2010, before me personally came the above-named Zhenguo Yang 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 28 day of Sept, 2010.

Wei Wang

STATE OF WASHINGTON)
) ss.
County of Benton)

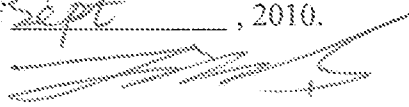
This 28th day of September, 2010, before me personally came the above-named Wei Wang who executed the foregoing instrument in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.



[SEAL]

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

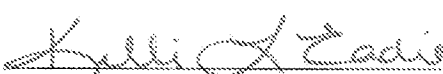
Executed at Richland, State of Washington, this 28 day of Sept, 2010.


Jianlu Zhang

STATE OF WASHINGTON)
) ss.
County of Benton)

This 28th day of September, 2010, before me personally came the above-named Jianlu Zhang 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.




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

Executed at Richland, State of Washington, this 28 day of Sept., 2010.

Baowei Chen
Baowei Chen

STATE OF WASHINGTON)
) ss.
County of Benton)

This 28th day of September, 2010, before me personally came the above-named Baowei Chen 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 C. Eadie
Notary Public for the State of Washington.
My commission expires: 1/29/12

Executed at Richland, State of Washington, this 28 day of 09, 2010.

Zimin Nie
Zimin Nie

STATE OF WASHINGTON)
) ss.
County of Benton)

This 28th day of September, 2010, before me personally came the above-named Zimin Nie who executed the foregoing instrument in my presence, and who acknowledged to me that she executed the same of her 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 28 day of September, 2010.

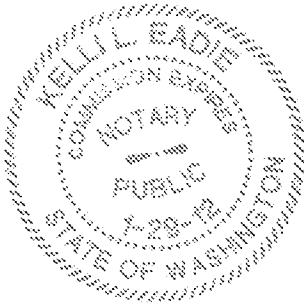
Guanguang Xia

STATE OF WASHINGTON)

) ss.

County of Benton)

This 28th day of September, 2010, before me personally came the above-named Guanguang Xia 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: 7/29/12