

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>Stephen M. Lipka</td> <td>06/06/2012</td> </tr> <tr> <td>Christopher R. Swartz</td> <td>06/06/2012</td> </tr> </tbody> </table>		Name	Execution Date	Stephen M. Lipka	06/06/2012	Christopher R. Swartz	06/06/2012						
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<table border="1"> <tr> <td>Name:</td> <td>The University of Kentucky Research Foundation</td> </tr> <tr> <td>Street Address:</td> <td>Astecc Building</td> </tr> <tr> <td>Internal Address:</td> <td>Room A144</td> </tr> <tr> <td>City:</td> <td>Lexington</td> </tr> <tr> <td>State/Country:</td> <td>KENTUCKY</td> </tr> <tr> <td>Postal Code:</td> <td>40506</td> </tr> </table>		Name:	The University of Kentucky Research Foundation	Street Address:	Astecc Building	Internal Address:	Room A144	City:	Lexington	State/Country:	KENTUCKY	Postal Code:	40506
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PROPERTY NUMBERS Total: 3													
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CORRESPONDENCE DATA													
<p>Fax Number: (859)252-0779 Phone: 8592520889 Email: kim@iplaw1.net, aimee@iplaw1.net <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: King & Schickli, PLLC Address Line 1: 247 N. Broadway Address Line 4: Lexington, KENTUCKY 40507</p>													
ATTORNEY DOCKET NUMBER:	434-436 A, B, C PCT												
NAME OF SUBMITTER:	Warren D. Shickli												

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Total Attachments: 5

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PATENT

REEL: 028332 FRAME: 0731

ASSIGNMENT

WHEREAS, we, STEPHEN M. LIPKA of Richmond, KY and CHRISTOPHER R. SWARTZ of Lexington, KY have made certain new and useful inventions, as disclosed in patent applications identified in *Exhibit A*, attached hereto and incorporated by reference herein, and;

AND WHEREAS, THE UNIVERSITY OF KENTUCKY RESEARCH FOUNDATION, a corporation of the Commonwealth of Kentucky having a place of business at Astecc Building, Room A144, Lexington, Kentucky 40506, is desirous of acquiring the entire right, title and interest in and to said inventions patents, and patent applications identified in *Exhibit A* and in and to any and all Letters Patent of the United States and foreign countries which may be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, we do hereby sell, assign, transfer and set over unto THE UNIVERSITY OF KENTUCKY RESEARCH FOUNDATION, its legal representatives, successors, and assigns, the entire right, title and interest in and to said inventions, patents and/or patent applications identified in *Exhibit A*, including without limitation, damages and payments for past or future infringements and misappropriations of the invention, patent and patent application; and (2) all rights to sue for past, present and future infringements or misappropriations of the invention, patent and patent application identified in *Exhibit A*.

UPON SAID CONSIDERATIONS, we hereby agree with said assignee that we

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will not execute any writing or do any act whatsoever conflicting with these presents, and that we will, at any time upon request, without further or additional consideration but at the expense of said assignee, execute such additional assignments and other writings and do such additional acts as said assignee may deem necessary or desirable to perfect assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, continuation, continuation-in-part, reexamined, reissued, or extended Letters Patent of the United States or of any and all foreign countries on said invention, and in enforcing any rights or chooses in action accruing as a result of such applications or patents, by giving testimony in any proceedings or transactions involving such applications or patents, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representatives of assignor and assignee;

AND we request the Commissioner of Patents and Trademarks or the corresponding official in any foreign country in which a patent or patents may issue for said inventions to issue said patent or patents to **THE UNIVERSITY OF KENTUCKY RESEARCH FOUNDATION**, its legal representatives, successors or assigns, as the sole owner of the entire right, title and interest in and to said patents and the inventions covered thereby.

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Stephen M. Lipka
STEPHEN M. LIPKA

Commonwealth of Kentucky)

County of Madison)

On this 6th day of June, 2012, before me personally appeared **STEPHEN M. LIPKA**, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he executed the same for the uses and purposes therein set forth.

My commission expires: May 15th 2016

SEAL

W. K. M. Lipka 465796
NOTARY PUBLIC

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Christopher R. Swartz
CHRISTOPHER R. SWARTZ

Commonwealth of Kentucky

County of Fayette

On this 6th day of June, 2012, before me personally appeared CHRISTOPHER R. SWARTZ, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he executed the same for the uses and purposes therein set forth.

My commission expires: May 1st 2016

SEAL

Vivian D. Hays 465796
NOTARY PUBLIC

Docket No.	Title	Appl. No./Filing Date
434-436 A PCT	FLOW BATTERY	PCT/US2012/39122/May 23, 2012
434-436 B PCT	FLOW BATTERY AND Mn/V ELECTROLYTE SYSTEM	PCT/US2012/39135/May 23, 2012
434-436 C PCT	HYBRID FLOW BATTERY AND Mn/Mn ELECTROLYTE SYSTEM	PCT/US2012/39144/May 23, 2012

Exhibit A