

## 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>Robert ELLENWOOD</td> <td>03/26/2012</td> </tr> <tr> <td>Jens Martin PAULSEN</td> <td>02/27/2012</td> </tr> <tr> <td>JaeRyoung LEE</td> <td>03/07/2012</td> </tr> </tbody> </table>		Name	Execution Date	Robert ELLENWOOD	03/26/2012	Jens Martin PAULSEN	02/27/2012	JaeRyoung LEE	03/07/2012		
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<table border="1"> <tr> <td>Name:</td> <td>UMICORE</td> </tr> <tr> <td>Street Address:</td> <td>Rue du Marais 31</td> </tr> <tr> <td>City:</td> <td>Brussels</td> </tr> <tr> <td>State/Country:</td> <td>BELGIUM</td> </tr> <tr> <td>Postal Code:</td> <td>B-1000</td> </tr> </table>		Name:	UMICORE	Street Address:	Rue du Marais 31	City:	Brussels	State/Country:	BELGIUM	Postal Code:	B-1000
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CORRESPONDENCE DATA											
<p>Fax Number: (919)998-5701</p> <p>Phone: 919.998.5700</p> <p>Email: lglenn@brinkshofer.com</p> <p><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: Allyn B. Rhodes</p> <p>Address Line 1: Post Office Box 110285</p> <p>Address Line 4: RTP, NORTH CAROLINA 27709</p>											
ATTORNEY DOCKET NUMBER:	13810-78										
NAME OF SUBMITTER:	Allyn B. Rhodes, Reg. No. 56,745										
<p>Total Attachments: 6</p> <p>source=Assigment#page1.tif</p>											

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## ASSIGNMENT

WHEREAS, I/we, Robert ELLENWOOD, Jens Martin PAULSEN, and JaeRyoung LEE,  
residing at 331 Cowan Crescent, Sherwood Park, Alberta T8H OE4, Canada; DunSanDong,  
MokRyeon Apt. 202-301, Daejeon, South Korea 302-771; and 111-801 Isu Brown Stone,  
Baeksuk-dong seobuk gu, Cheonan-City Chungnam, South Korea 331-220, respectively, have  
made certain new and useful inventions and improvements in:

### High Density Cathode Materials for Secondary Batteries

set forth in:

- (1) ☐ United States provisional patent application
  - (a) ☐ bearing Application No. \_\_\_\_\_, filed on \_\_\_\_\_; or
  - (b) ☐ to be filed herewith;
- (2) ☒ United States nonprovisional patent application
  - (a) ☐ filed herewith; or
  - (b) ☒ bearing Application No. 13/303,349, filed on November 23, 2011,  
and
- (3) ☐ International Patent Application No. \_\_\_\_\_, designating the United States  
and filed on \_\_\_\_\_;

AND WHEREAS, UMICORE, a corporation, having an office and place of business at  
Rue du Marais 31, B-1000, Brussels, Belgium (hereinafter "Assignee"), is desirous of acquiring  
the entire right, title and interest in and to said inventions, improvements and application and in  
and to the Letters Patent to be obtained therefor;

NOW, THEREFORE, to all whom it may concern, be it known that for good and  
valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, I/we have  
sold, assigned, set over, and transferred, and by these presents do sell, assign, set over and  
transfer unto said Assignee, its successors or assigns, the entire right, title and interest in and to  
said inventions and improvements, the right to file applications for all countries in and to all  
inventions and improvements disclosed in the aforesaid application, the entire right, title and  
interest in and to the said application, any and all other applications for Letters Patent on said  
inventions and improvements, including all provisional, nonprovisional, divisional, continuation,  
continuation-in-part, and renewal applications based in whole, or in part, upon said inventions or  
improvements, or upon said applications, and all Letters Patent which may be granted therefrom,

and all reissues, reexaminations, or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted therefrom, including the unrestricted right to claim priority of the U.S. application identified above in item (1); and I do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the said Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the said Assignee, its successors and assigns.

AND, for the consideration aforesaid, I do hereby agree that I and my executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to us relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the said improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore, I covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by us.

AND, I hereby authorize and request the attorneys of Brinks, Hofer, Gilson & Lione to insert in the spaces provided above the filing date, application number, and attorney's docket number of said application when known.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 26<sup>th</sup> day of March 2012



Robert ELLENWOOD

IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_ day of \_\_\_\_\_,  
\_\_\_\_\_.

\_\_\_\_\_  
Jens Martin PAULSEN

IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_ day of \_\_\_\_\_,  
\_\_\_\_\_.

\_\_\_\_\_  
JaeRyoung LEE

BHGL-34794-8

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said inventions and improvements, the right to file applications for all countries in and to all  
inventions and improvements disclosed in the aforesaid application, the entire right, title and  
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inventions and improvements, including all provisional, nonprovisional, divisional, continuation,  
continuation-in-part, and renewal applications based in whole, or in part, upon said inventions or  
improvements, or upon said applications, and all Letters Patent which may be granted therefrom,

and all reissues, reexaminations, or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted therefrom, including the unrestricted right to claim priority of the U.S. application identified above in item (1); and I do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the said Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the said Assignee, its successors and assigns.

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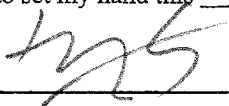
IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_\_ day of \_\_\_\_\_,  
\_\_\_\_\_.

\_\_\_\_\_  
Robert ELLENWOOD

IN TESTIMONY WHEREOF, I have hereunto set my hand this 27 day of Febr.,  
2012

  
Jens Martin PAULSEN

IN TESTIMONY WHEREOF, I have hereunto set my hand this 07 day of Mar.,  
2012

  
JaeRyoung LEE

BHGL-34794-8