

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
RANDY DEPALMA	03/08/2016
JIHYE KIM	03/08/2016
KRIS DRIESEN	03/08/2016
JENS PAULSEN	03/08/2016
JIN HU	03/08/2016

RECEIVING PARTY DATA

Name:	UMICORE
Street Address:	RUE DU MARAIS 31
City:	BRUSSELS
State/Country:	BELGIUM
Postal Code:	B-1000
Name:	UMICORE KOREA LTD.
Street Address:	410, CHAAM-DONG
Internal Address:	CHEONAN
City:	CHUNGNAM
State/Country:	KOREA, REPUBLIC OF
Postal Code:	330-200

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14915281

CORRESPONDENCE DATA**Fax Number:** (919)998-5701*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.***Phone:** 9199985700**Email:** mcapozzi@brinksgilson.com**Correspondent Name:** BRINKS GILSON & LIONE**Address Line 1:** P.O. BOX 110285**Address Line 4:** RESEARCH TRIANGLE PK, NORTH CAROLINA 27709

ATTORNEY DOCKET NUMBER:	13810-138
NAME OF SUBMITTER:	ALLYN B ELLIOTT, REG NO. 56745
SIGNATURE:	/Allyn B. Elliott/
DATE SIGNED:	09/06/2016
Total Attachments: 3 source=13810-138-executed-assignment#page1.tif source=13810-138-executed-assignment#page2.tif source=13810-138-executed-assignment#page3.tif	

ASSIGNMENT

WHEREAS, I/we, Randy DE PALMA; JiHye KIM; Kris DRIESEN; Jens PAULSEN; and Jin HU, residing at 102 Dong – 2203 Ho, Namsan Lotte Castle Iris, 37-6, Hoehyundong-1Ga, Joong-Gu, Seoul, Korea; Seobuk-Gu, 3Gongdan 2Ro, Cheonan, 331-200, Korea; Europalaan 24, B-3500 Hasselt, Belgium; Hanul Apt. 108-201, 160-1 ShinSeong Dong, Yuseong-Gu, Daejeon, 305-707, Korea; and De Roest d'Alkemadelaan 2/51, B-2600, Antwerp, Belgium, respectively, have made certain new and useful inventions and improvements in:

Carbonate Precursors for High Lithium and Manganese Containing Cathode Materials;

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. 14/915,281, filed on February 29, 2016, and
- (3) International Patent Application No. _____, designating the United States and filed on _____;

AND WHEREAS, 1) Umicore, a corporation, having an office and place of business at Rue du Marais 31, B-1000, Brussels, Belgium; and 2) Umicore Korea Ltd., a corporation, having an office and place of business at 410, Chaam-Dong, Cheonan, Chungnam, 330-200, Korea; (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

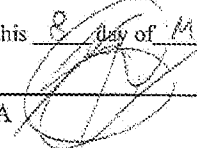
part, upon said inventions or improvements, or upon said applications, and all Letters Patent which may be granted therefrom, and all reissues, reexaminations, or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters 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; and I/we 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/we do hereby agree that I/we and my/our 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/we 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 me/us and that full right to convey the same as herein expressed is possessed by me/us.

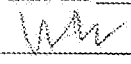
AND, I/we hereby authorize and request the attorneys of Brinks Gilson & Lione to insert in the spaces provided above the filing date, application number, and attorney's docket number of said application when known.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 8 day of MARCH, 2016.



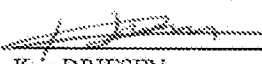
Randy DE PALMA

IN TESTIMONY WHEREOF, I have hereunto set my hand this 8 day of March, 2016.



JiHye KIM

IN TESTIMONY WHEREOF, I have hereunto set my hand this 8 day of March, 2016.



Kris DRIESEN

IN TESTIMONY WHEREOF, I have hereunto set my hand this 8 day of Mar 8, 2016.



Jens PAULSEN

IN TESTIMONY WHEREOF, I have hereunto set my hand this 8 day of March, 2016.



Jin HU