PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3190960

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
NATHALIE DELPUECH	11/09/2014
DRISS MAZOUZI	11/05/2014
BERNARD LESTRIEZ	11/01/2014
DOMINIQUE GUYOMARD	11/03/2014
LIONEL ROUE	11/07/2014

RECEIVING PARTY DATA

Name:	UMICORE
Street Address:	RUE DU MARAIS 31
City:	BRUSSELS
State/Country:	BELGIUM
Postal Code:	B-1000
Name:	CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE
Street Address:	3, RUE MICHEL-ANGE
City:	PARIS CEDEX 16
State/Country:	FRANCE
Postal Code:	F-75794
Name:	INSTITUT NATIONAL DE LA RECHERCHE SCIENTIFIQUE
Street Address:	490, RUE DE LA COURONNE
Internal Address:	QUEBEC CITY
City:	QUEBEC
State/Country:	CANADA
Postal Code:	G1K 9A9
Name:	UMICORE KOREA LTD.
Street Address:	410, CHAAM-DONG, CHEONAN
Internal Address:	CHUNGNAM
City:	CHUNAN-CITY
State/Country:	KOREA, REPUBLIC OF
Postal Code:	330-200

PROPERTY NUMBERS Total: 1

PATENT REEL: 034772 FRAME: 0647

503144348

Property Type	Number
Application Number:	14394779

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:	13810-113
NAME OF SUBMITTER:	ALLYN B ELLIOTT, REG. NO. 56745
SIGNATURE:	/Allyn B. Elliott/
DATE SIGNED:	01/21/2015

Total Attachments: 15

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ASSIGNMENT

WHEREAS, I/we, Nathalie DELPUECH, Driss MAZOUZI, Bernard LESTRIEZ, Dominique GUYOMARD, and Lionel ROUE, residing at 4 Merion Court, 9 Park Road, Didcot OX11 8QN, United Kingdom; 5, rue de Douarnenez, Nantes, F-44300, France; 22, Avenue de l'Eperonnière, Nantes, F-44000, France; 3, rue de la Motte, Sautron, F-44880, France; and 2069, rue de l'Eglise, Sainte-Julie, Quebéc, J3E 2J8, Canada, respectively, have made certain new and useful inventions and improvements in:

	Low Co	ost Si-Ba	ased Negative Electrodes with Enhanced Cycling Performance;
et forth in:			
(1)		United	States provisional patent application
	(a)		bearing Application No, filed on; or
	(b)		to be filed herewith;
(2)	\boxtimes	United	States nonprovisional patent application
	(a)		filed herewith; or
	(b)	\boxtimes	bearing Application No. 14/394,779, filed on October 16, 2014
			and
(3)		Intern	ational Patent Application No, designating the United
		States	and filed on;

St

AND WHEREAS, 1) <u>Umičore</u>, a corporation, having an office and place of business at <u>Rue du Marais 31</u>, <u>B-1000</u>, <u>Brussels</u>, <u>Belgium</u>; 2) <u>Centre National de la Recherche Scientifique</u>, a corporation, having an office and place of business at <u>3</u>, <u>rue Michel-Ange</u>, <u>F-75794</u>, <u>Paris Cedex 16</u>, <u>France</u>; 3) <u>Institut National de la Recherche Scientifique</u>, a corporation, having an office and place of business at <u>490</u>, <u>rue de la Couronne</u>, <u>Quebec City</u>, <u>Quebec G1K 9A9</u>, <u>Canada</u>; and 4) <u>Umicore Korea Ltd.</u>, a corporation, having an office and place of business at <u>410</u>, <u>Chaam-Dong</u>, <u>Cheonan</u>, <u>Chungnam</u>, <u>Chunan-city</u>, <u>330-200</u>, <u>Korea</u>; (hereinafter "Assignees"), 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 Assignees, 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 Assignees as the assignee of the entire right, title and interest in and to the same, for the use of the said Assignees, 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 Assignees, 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 Assignees, 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 Assignees, 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.

PATENT

	Application Number: 14/394,779 Page 3
IN TESTIMONY WHEREOF, I have hereunto set my hand this	day of <u>November</u> , <u>2014</u> .
Dominique GUYOMARI)
IN TESTIMONY WHEREOF, I have hereunto set my hand this	day of <u>November</u> , <u>2014</u> .
Lionel ROUE	

ASSIGNMENT

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algija i sa sakis Historija sakis ma	(b)		bearing Application No. 14/394,779, filed on October 16, 2014,
	ajgenej i	er grott bet	vandining anggasa giva panagga panggivan dinagga (2011) kali
(3)		Intern	ational Patent Application No, designating the United
		States	and filed on;

AND WHEREAS, 1) <u>Umicore</u>, a corporation, having an office and place of business at <u>Rue du Marais 31</u>, B-1000, <u>Brussels</u>, <u>Belgium</u>; 2) <u>Centre National de la Recherche Scientifique</u>, a corporation, having an office and place of business at <u>3</u>, rue <u>Michel-Ange</u>, <u>F-75794</u>, <u>Paris Cedex 16</u>, <u>France</u>; 3) <u>Institut National de la Recherche Scientifique</u>, a corporation, having an office and place of business at <u>490</u>, rue de la <u>Couronne</u>, <u>Quebec City</u>, <u>Quebec G1K 9A9</u>, <u>Canada</u>; and 4) <u>Umicore Korea Ltd.</u>, a corporation, having an office and place of business at <u>410</u>, <u>Chaam-Dong</u>, <u>Cheonan</u>, <u>Chungnam</u>, <u>Chunan-city</u>, <u>330-200</u>, <u>Korea</u>; (hereinafter "Assignees"), 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 Assignees, 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 Assignees as the assignee of the entire right, title and interest in and to the same, for the use of the said Assignees, its successors and assigns.

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IN TESTIMONY WHEREOF, I have hereunto set my hand this day of November, 2014.
Nathalie DELPUECH
IN TESTIMONY WHEREOF, I have hereunto set my hand this <u>05</u> day of <u>November</u> , <u>2014</u>
Driss MAZOUZI
IN TESTIMONY WHEREOF, I have hereunto set my hand this day of <u>November</u> , <u>2014</u> .
Bernard LESTRIEZ

	Docket No.: 13810-113 Application Number: 14/394,779 Page 3
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Dominique GUYOMARI)
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Lionel ROUE	***

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set forth in:			
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•		State	s and filed on;

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Remard LESTRIE7

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Lionel ROUE

PATENT REEL: 034772 FRAME: 0657

Docket No.: 13810-113 Application Number: 14/394,779 Page 3

ASSIGNMENT

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Bernard LESTRIEZ

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9
Dominique GUYOMARD
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IN TESTIMONY WHEREOF, I have hereunto set my hand this	day of November, 2014.
Nathalie DELPUECH	
IN TESTIMONY WHEREOF, I have hereunto set my hand this	day of <u>November</u> , <u>201</u> 4
Driss MAZOUZI	
IN TESTIMONY WHEREOF, I have hereunto set my hand this	_ day of <u>November</u> , <u>2014</u> .
Bernard LESTRIEZ	

PATENT

TESTIMONY WHEREOF, I have hereunto set my hand this day distributed
Dominique GUYOMARD
N TESTIMONY WHEREOF, I have hereunto set my hand this $0 \pm d$ day of November, 2014.

Lionel ROUE



PATENT