

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT2709924

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>BERNARD KIPPELEN</td> <td>11/22/2013</td> </tr> <tr> <td>CANEK FUENTES-HERNANDEZ</td> <td>11/25/2013</td> </tr> <tr> <td>YINHUA ZHOU</td> <td>11/19/2013</td> </tr> <tr> <td>JAE WON SHIM</td> <td>11/19/2013</td> </tr> <tr> <td>SETH R. MARDER</td> <td>11/19/2013</td> </tr> </tbody> </table>		Name	Execution Date	BERNARD KIPPELEN	11/22/2013	CANEK FUENTES-HERNANDEZ	11/25/2013	YINHUA ZHOU	11/19/2013	JAE WON SHIM	11/19/2013	SETH R. MARDER	11/19/2013
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CORRESPONDENCE DATA													
Fax Number:	(404)885-3900												
Phone:	404-885-3000												
Email:	sara.rogers@troutmansanders.com												
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>													
Correspondent Name:	TROUTMAN SANDERS LLP												
Address Line 1:	600 PEACHTREE STREET												
Address Line 2:	SUITE 5200												
Address Line 4:	ATLANTA, GEORGIA 30308												
ATTORNEY DOCKET NUMBER:	GTRC5645												
NAME OF SUBMITTER:	RYAN A. SCHNEIDER												

PATENT

Signature:	/ryan a. schneider/
Date:	02/03/2014
Total Attachments: 7 source=GTRC5645ASSIGNMENT#page1.tif source=GTRC5645ASSIGNMENT#page2.tif source=GTRC5645ASSIGNMENT#page3.tif source=GTRC5645ASSIGNMENT#page4.tif source=GTRC5645ASSIGNMENT#page5.tif source=GTRC5645ASSIGNMENT#page6.tif source=GTRC5645ASSIGNMENT#page7.tif	

ASSIGNMENT

WHEREAS, We, **Bernard Kippelen, Canek Fuentes-Hernandez, Yinhua Zhou, Jae Won Shim, and Seth R. Marder** (collectively referred to as "Assignor"), have invented certain improvements in **Systems and Methods for Producing Low Work Function Electrodes**, along with co-inventors from Princeton University: Antoine Kahn and Jens Meyer, who are separately assigning rights to The Trustees of Princeton University, and for which a U.S. National Stage Patent Application, No. 14/117,965 was filed 15 November 2013, for which PCT Patent Application No. PCT/US2012/038125 was filed 12 May 2012, for which U.S. Provisional Application Serial No. 61/486,368 was filed 16 May 2011, for which U.S. Provisional Application Serial No. 61/591370 was filed 27 January 2012, and for which U.S. Provisional Application Serial No. 61/608,408 was filed 8 March 2012, and for which future applications will be filed, (all collectively referred to as the "Application"), and whereas

GEORGIA TECH RESEARCH CORPORATION

505 Tenth Street, N.W.

Atlanta, Georgia 30332-0415

United States

("Assignee") desires to purchase all of Assignor's rights in same;

NOW THEREFORE, in consideration of the sum of One Dollar (\$1.00) and other good and valuable considerations paid by the said Assignee, the receipt and sufficiency of which are hereby acknowledged, Assignor has and by these presents does hereby sell, assign, transfer and convey unto said Assignee all of Assignor's rights, title, and interest in and to said Application, including in and to any conventional, division, continuation, continuation-in-part, substitution, reissue, renewal, reexam, continued prosecution application ("CPA"), or request for continued examination ("RCE") thereof, and in and to all inventions and improvements thereon (herein collectively referred to as "Related US Applications"), preparatory to obtaining Letters Patent of the United States therefore; and Assignor hereby requests the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States resulting from said Application and Related US Applications, to Assignee, for its interest and for the sole use and benefit of Assignee and its assigns and legal representatives.

For the same consideration, Assignor, by these presents does sell, assign, and transfer to Assignee all of Assignor's rights, title and interest in and to any foreign and international applications related to and/or seeking benefit of said Application and Related US Applications, and in and to all inventions and improvements thereon (herein collectively referred to as "Related Foreign Applications"), in and to any Letters Patent and similar protective rights granted on said Related Foreign Applications, and in and to the right to claim any applicable priority rights arising from or required for said Related Foreign Applications under the terms of any applicable conventions, treaties, statutes, or regulations, said Related Foreign Applications to be filed and issued in the name of Assignee or its designee, insofar as permitted by applicable law.

For the same consideration, Assignor agrees, without charge to Assignee, but at Assignee's expense, to sign all lawful papers, execute said Application, Related US Applications and Related Foreign Applications, make all assignments and rightful oaths, assist in prosecution of said Application, Related US Applications and Related Foreign Applications, assist in prosecution of legal proceedings, and generally do everything reasonably possible to aid Assignee its successors, assigns, and nominees, to obtain and enforce proper protection for all said inventions and improvements in all countries throughout the world.

**TROUTMAN
SANDERS**

AND, for the same consideration, Assignor also hereby sells, assigns and transfers unto Assignee all of Assignor's rights and claims to sue for damages and other remedies with respect to any and all past infringement of all said Application, Related US Applications, and Related Foreign Applications, including said inventions and improvements which may have occurred before the date of this Assignment.

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 22 day of November, 2013.

Bernard Kippelen (SEAL)

Witnessed by: Keith Knauer
Signature

Date: 11/22/13

Keith Knauer
Printed Name of Witness

Witnessed by: Michael Gaj
Signature

Date: 11/22/13

MICHAEL GAJ
Printed Name of Witness

SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY

IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2013.

(SEAL)
Bernard Kippelen

State of _____

County of _____

On this _____ day of _____, 2013, before me, a notary public, came to me known and known to be the individual described in and who executed the foregoing assignment, and he duly acknowledged the same to be his free act and deed.

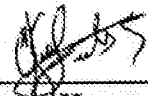
NOTARY PUBLIC

(SEAL)

My Commission Expires:

TROUTMAN
SANDERS

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 25 day of November, 2013.



Canek Fuentes-Hernandez (SEAL)

Witnessed by: 

Signature

Date: 11-25-2013

Amir Dindar
Printed Name of Witness

Witnessed by: 

Signature

Date: 11/25/2013

TALHA KHANI
Printed Name of Witness

SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY

IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2013.

Canek Fuentes-Hernandez (SEAL)

State of _____

County of _____

On this ____ day of _____, 2013, before me, a notary public, came to me known and known to be the individual described in and who executed the foregoing assignment, and he duly acknowledged the same to be his free act and deed.

NOTARY PUBLIC

(SEAL)

My Commission Expires:

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 19th day of November, 2013.

[Signature]
Yinhua Zhou

(SEAL)

Witnessed by: [Signature]
Signature

Date: Nov 19, 2013

Yinhua Zhou
Printed Name of Witness

Witnessed by: _____
Signature

Date: _____

Printed Name of Witness

SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY

IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2013.

Yinhua Zhou

(SEAL)

State of _____

County of _____

On this _____ day of _____, 2013, before me, a notary public, came to me known and known to be the individual described in and who executed the foregoing assignment, and he duly acknowledged the same to be his free act and deed.

NOTARY PUBLIC

My Commission Expires: _____

(SEAL)

DEUTMAN
SANDERS

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 19th day of November, 2013.

Jay (SEAL)
Jae Won Shim

Witnessed by:

[Signature]
Signature

Date: 11/19/2013

Minseong Yun
Printed Name of Witness

Witnessed by:

[Signature]
Signature

Date: 11/19/2013

TALHA KHAN
Printed Name of Witness

SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY

IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2013.

(SEAL)
Jae Won Shim

State of _____

County of _____

On this ____ day of _____, 2013, before me, a notary public, came to me known and known to be the individual described in and who executed the foregoing assignment, and he duly acknowledged the same to be his free act and deed.

NOTARY PUBLIC

(SEAL)

My Commission Expires:

TROUTMAN
SANDERS

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 19th day of November, 2013.

Seth R. Marder (SEAL)
Seth R. Marder

Witnessed by: Timothy C. Parker
Signature
TIMOTHY PARKER
Printed Name of Witness

Date: 11/19/2013

Witnessed by: DH Bale
Signature
Denise H. Bale
Printed Name of Witness

Date: 11/19/2013

SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY

IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2013.

(SEAL)
Seth R. Marder

State of _____

County of _____

On this ____ day of _____, 2013, before me, a notary public, came to me known and known to be the individual described in and who executed the foregoing assignment, and he duly acknowledged the same to be his free act and deed.

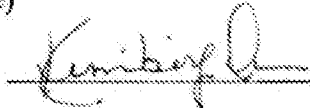
NOTARY PUBLIC

(SEAL)

My Commission Expires:


In Witness Whereof, Assignee hereby accepts from Assignor the sale, assignment, transfer and conveyance unto said Assignee of the full, exclusive and entire right, title, and interest in and to said Application, Related US Applications and Related Foreign Applications, by its duly authorized officer this 15th day of JANUARY, 2014.

Georgia Tech Research Corporation
(Assignee)

By: 

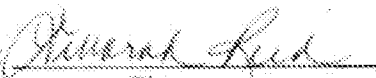
Name: Kimberly Dunn

Title: Authorized Signatory

Witnessed by: 
Signature

Date: January 15, 2014

Cynthia Jackson
Printed Name of Witness

Witnessed by: 
Signature

Date: January 15, 2014

Deborah Reid
Printed Name of Witness