502725092 03/17/2014

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT2771697

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	

Name	Execution Date
ALON GORODETSKY	01/21/2013
PHILLIP KIM	01/21/2014
MARSHALL COX	02/20/2014
IOANNIS KYMISSIS	02/22/2013
COLIN P NUCKOLLS	03/04/2014
MELINDA Y HAN	02/20/2014

RECEIVING PARTY DATA

Name:	THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK
Street Address:	535 WEST 116TH STREET
City:	412 LOW MEMORIAL LIBRARY
State/Country:	NEW YORK
Postal Code:	10027

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14004220

CORRESPONDENCE DATA

Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.

Email:	request@slwip.com
Correspondent Name:	SCHWEGMAN, LUNDBERG & WOESSNER, P.A.
Address Line 1:	P.O. BOX 2938
Address Line 4:	MINNEAPOLIS, MINNESOTA 55402

ATTORNEY DOCKET NUMBER:	2413.128US1
NAME OF SUBMITTER:	LATASHA HILL
SIGNATURE:	/ LaTasha Hill /
DATE SIGNED:	03/17/2014

Total Attachments: 23

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RECORDATION FORM COVER SHEET PATENTS ONLY

Patent and Trademark Office
ease record the attached original documents or copy thereof.
2. Name and address of receiving party(ies):
 Name: The Trustees of Columbia University in the City of New York Street Address: 535 West 116th Street 412 Low Memorial Library
Additional name(s) & address(es) attached? []Yes
[X]No
on, the execution date of the application is:
B. Patent No.(s)
6. Total number of applications and patents involved: $\underline{1}$
7. Total fee (37 CFR 3.41):\$ <u>0.00</u>
[]Enclosed
[]Authorized to be charged to deposit account 19-0743
8. Please charge any additional fees or credit any over payments to our Deposit Account No.: 19-0743
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nation is true and correct and any attached copy is a true copy
nation is true and correct and any attached copy is a true copy
nation is true and correct and any attached copy is a true copy 3/13/2014 Signature Date

Mail documents to be recorded with required cover sheet information to: **Commissioner of Patents and Trademarks**

Mail Stop Assignment Recordation Services P.O. Box 1450 Alexandria, VA 22313-1450

ASSIGNMENT

WHEREAS, Marshall Cox, Ioannis Kymissis, Alon Gorodetsky, Melinda Y. Han, Colin P. Nuckolls and Philip Kim (hereinafter the "Undersigned") have made one or more inventions and other subject matter (hereinafter collectively referred to as the "Invention") which are described in a patent application filed on September 10, 2013, which application was assigned US patent application serial number 14/004,220, and which is titled GRAPHENE ELECTRODES FOR ELECTRONIC DEVICES; which are described in a patent application filed on March 8, 2012, which application was assigned PCT application serial number PCT/US2012/028299, and which is titled GRAPHENE ELECTRODES FOR ELECTRODES FOR ELECTRONIC DEVICES; which are described in a patent application filed on March 10, 2011, which application was assigned US application serial number 61/451,329, and which is titled GRAPHENE ELECTRODES FOR OPTOELECTRONIC DEVICES.

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency, and adequacy of which are hereby acknowledged by the Undersigned, the Undersigned do hereby irrevocably and unconditionally:

CONVEY, ASSIGN, AND TRANSFER to The Trustees of Columbia University in the City of New York (the "Assignee"), a corporation of the State of New York, having a place of business at 535 West 116th Street, 412 Low Memorial Library, New York, New York 10027, the Undersigned's entire right, title, and interest for the United States and all foreign countries and jurisdictions in and to:

the Invention which is disclosed in the above-identified application or applications;

such application or applications, and all divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other applications for a patent or patents which have been or shall be filed in the United States (including all provisional and non-provisional applications), and in all foreign countries and jurisdictions based in whole or in part on any of such Invention (including any application for a utility model or an innovation patent application);

all original and reissued patents which have been or shall be issued in the United States and all foreign countries and jurisdictions based in whole or in part on any of such invention;

including the right to claim priority to the above-identified patent application or applications in relation to subject matter based in whole or in part on the above-identified patent application or applications and any of the foregoing including the right to file foreign applications under the provisions of any convention or treaty;

and including the right to all causes of action, remedies, and other enforcement rights related to the above-identified application or applications, including without limitation the right to sue for past, present, or future infringement, misappropriation, or violation of any and all rights related to the aboveidentified patent application or applications and any of the foregoing, including the right to obtain and collect damages for past, present, or future infringement;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such Invention to the Assignee;

AUTHORIZE AND REQUEST that any attorney associated with U.S. Patent and Trademark Office (USPTO) Customer No. 68836 may (directly or through his/her designee) delete, insert, or alter any information related to the above-identified patent application or applications or any of the foregoing, after execution of this Assignment;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or shall be made to others by the Undersigned, and that the full right to convey the same as herein expressed is possessed by the Undersigned;

COVENANT, that when requested and without compensation, but at the expense of the Assignee, in order to carry out in good faith the intent and purpose of this Assignment, the Undersigned shall (1) execute all provisional, non-provisional, divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other patent applications for the Invention; (2) execute all rightful oaths, declarations, assignments, powers of attorney and other papers for the Invention; (3) communicate to the Assignee all facts known to the Undersigned relating to the Invention and the history thereof; (4) cooperate with the Assignee in any interference, reexamination, reissue, opposition, dispute, or litigation involving any of the applications or patents for the Invention; and (5) take such further actions as the Assignee shall reasonably consider necessary or desirable for vesting title to such Invention in the Assignee, or for securing, maintaining and enforcing proper patent protection for the Invention;

COVENANT, that should any provision of this agreement be held unenforceable by an authority of competent jurisdiction, such a ruling shall not affect the validity and enforceability of the remaining provisions. To the extent that any such provision is found to be unenforceable, the Undersigned, when requested and without compensation shall act in good faith to substitute for such provision a new provision with content and purpose as close as possible to the provision deemed unenforceable.

THIS AGREEMENT IS TO BE BINDING on the heirs, assigns, representatives, and successors of the Undersigned, and is to extend to the benefit of the successors, assigns, and nominees of the Assignee.

AGREED as of the date of my signature below:

(Signature):

Name: <u>Marshall Cox</u> City/State: <u>Brooklyn, NY</u>

Date:

Docket No: 2413.128US1

Assignor:

(Signature):

dem Gorodetsky

Name: <u>Alon Gorodetsky</u> City/State: New York, NY

ASSIGNMENT

WHEREAS, Marshall Cox, Ioannis Kymissis, Alon Gorodetsky, Melinda Y. Han, Colin P. Nuckolls and Philip Kim (hereinafter the "Undersigned") have made one or more inventions and other subject matter (hereinafter collectively referred to as the "Invention") which are described in a patent application filed on September 10, 2013, which application was assigned US patent application serial number 14/004,220, and which is titled GRAPHENE ELECTRODES FOR ELECTRONIC DEVICES; which are described in a patent application filed on March 8, 2012, which application was assigned PCT application serial number PCT/US2012/028299, and which is titled GRAPHENE ELECTRODES FOR ELECTRODES FOR ELECTRONIC DEVICES; which are described in a patent application filed on March 10, 2011, which application was assigned US application serial number 61/451,329, and which is titled GRAPHENE ELECTRODES FOR OPTOELECTRONIC DEVICES.

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such application or applications, and all divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other applications for a patent or patents which have been or shall be filed in the United States (including all provisional and non-provisional applications), and in all foreign countries and jurisdictions based in whole or in part on any of such Invention (including any application for a utility model or an innovation patent application);

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and including the right to all causes of action, remedies, and other enforcement rights related to the above-identified application or applications, including without limitation the right to sue for past, present, or future infringement, misappropriation, or violation of any and all rights related to the aboveidentified patent application or applications and any of the foregoing, including the right to obtain and collect damages for past, present, or future infringement;

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AGREED as of the date of my signature below:

Docket No. 2413 128US1

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Assignment

Angene Maria Consta The GRAMENE ELECTRODES FOR ELECTRONIC DEVICES Page 4 & 1

Assignor:

(Signature):

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Name: Phille Kim City/State: New York, NY

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Date:

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ASSIGNMENT

WHEREAS, Marshall Cox, Ioannis Kymissis, Alon Gorodetsky, Melinda Y. Han, Colin P. Nuckolls and Philip Kim (hereinafter the "Undersigned") have made one or more inventions and other subject matter (hereinafter collectively referred to as the "Invention") which are described in a patent application filed on September 10, 2013, which application was assigned US patent application serial number 14/004,220, and which is titled GRAPHENE ELECTRODES FOR ELECTRONIC DEVICES; which are described in a patent application filed on March 8, 2012, which application was assigned PCT application serial number PCT/US2012/028299, and which is titled GRAPHENE ELECTRODES FOR ELECTRODES FOR ELECTRONIC DEVICES; which are described in a patent application filed on March 10, 2011, which application was assigned US application serial number 61/451,329, and which is titled GRAPHENE ELECTRODES FOR OPTOELECTRONIC DEVICES.

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the Invention which is disclosed in the above-identified application or applications;

such application or applications, and all divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other applications for a patent or patents which have been or shall be filed in the United States (including all provisional and non-provisional applications), and in all foreign countries and jurisdictions based in whole or in part on any of such Invention (including any application for a utility model or an innovation patent application);

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AGREED as of the date of my signature below:

(Signature):

Name: Marshall Cox City/State: Brooklyn, NY

Date:

2/20/14

Attorney Docket No. 2413,128US1

ASSIGNMENT

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AGREED as of the date of my signature below:

Docket No; 2413,128US1

Assignment Assignors: Marshall Cox et al. Title: GRAPHENE ELECTRODES FOR ELECTRONIC DEVICES Page 4 of 8

Assignor:

(Signature): Name: Ioannis Kymissis

City/State: <u>New York, NY</u>

Date:

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Assignment Assignors: Marshall Cox et al. Title: GRAPHENE BLECTRODES FOR BLECTRONIC DEVICES Page 7 of 8

Assignor:

(Signature):

1211

Name: Colin P. Nuckolls City/State: New York, NY

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Date:

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AN ALTAND AND THE ARAM

Docket No; 2413,128US1

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(Signature):

Name: Marshall Cox City/State: Brooklyn, NY

.....

(Signature):

Name: Ioannis Kymissis City/State: New York, NY

Date:

(Signature):

Name: Alon Gorodetsky City/State: New York, NY -----

(Signature):

Inhar. 72

Name: Melinda Y. Han_____ City/State: New York, NY

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(Signature):

Name: Colin P. Nuckolls City/State: New York, NY

(Signature):

Name: Philip Kim City/State: New York, NY

Date:

RECORDED: 03/17/2014