PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT2950598

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HUMBERTO TERRONES	05/05/2014
MAURICIO TERRONES	05/12/2014
ANA LAURA ELIAS	05/05/2014
NESTOR PEREA-LOPEZ	05/05/2014

RECEIVING PARTY DATA

Name:	THE PENN STATE RESEARCH FOUNDATION
Street Address:	THE PENNSYLVANIA STATE UNIVERSITY
Internal Address:	304 OLD MAIN
City:	UNIVERSITY PARK
State/Country:	PENNSYLVANIA
Postal Code:	16802-1504

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14229181

CORRESPONDENCE DATA

Fax Number: (412)562-1041

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: 412-562-1622

Email: christine.marney@bipc.com **Correspondent Name:** DUANE A. STEWART III Address Line 1: ONE OXFORD CENTRE

301 GRANT STREET, 20TH FLOOR Address Line 2: Address Line 4: PITTSBURGH, PENNSYLVANIA 15219

ATTORNEY DOCKET NUMBER:	0073605-000178
NAME OF SUBMITTER:	DUANE A. STEWART III
SIGNATURE:	/Duane A. Stewart III/
DATE SIGNED:	07/23/2014

Total Attachments: 4 source=178assign#page1.tif

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ASSIGNMENT

WHEREAS, we, Humberto Terrones, residing at 2376 Sagamore Drive, State College, Pennsylvania 16803, Mauricio Terrones, residing at 2376 Sagamore Drive, State College, Pennsylvania 16803, Ana Laura Elias, residing at 406 South Corl Street, Apt. 9, State College, Pennsylvania 16801, and Nestor Perea-Lopez, residing at 1340 Harris Street, State College, Pennsylvania 16803, respectively, have invented certain new and useful apparatus, methods, inventions, discoveries and/or improvements disclosed in the U.S. Utility Patent Application entitled "CONTROLLED SYNTHESIS AND TRANSFER OF LARGE AREA HETEROSTRUCTURES MADE OF BILAYER AND MULTILAYER TRANSITION METAL DICHALCOGENIDES" which was filed on March 28, 2014 and has Application Serial No. 14/229,181; which claims priority to U.S. Provisional Application No. 61/805,461, filed March 26, 2013, and

AND WHEREAS, The Penn State Research Foundation, The Pennsylvania State University, 304 Old Main, University Park, Pennsylvania 16802-1504 (hereinafter the "Assignee"), is desirous of acquiring the entire right, title and interest in and to said application(s) and the apparatus, inventions, discoveries, methods, and improvements therein disclosed;

NOW THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration paid to us by said Assignee, receipt whereof we hereby acknowledge, we do hereby assign, sell, transfer, and set over unto said Assignee the entire right, title, and interest in and to said application(s) and the apparatus, inventions, discoveries and improvements therein disclosed for the United States of America and its territories and all foreign countries and any Letters Patent which may issue therefor in the United States and its territories and all foreign countries and all divisions, reissues, continuations, continuations-in-part, renewals, and/or extensions thereof, including the right to apply for Letters Patents in each foreign country and the United States of America and its territories, in its own name and to claim any and all priority rights under the International Convention, other conventions, treaties, or otherwise associated therewith for each country and the United States of America and its territories, said Assignee to have and to hold the interests herein assigned to the full ends of the terms of said Letters Patent and any and all divisions, reissues, continuations, continuations-in-part, renewals, and/or extensions thereof, respectively, as fully and entirely as the same would have been held and enjoyed by us had this Assignment not been made.

The Commissioner of Patents and Trademarks is requested to issue such Letters Patent in accordance herewith. We covenant that we are the lawful owners of the said application(s), apparatus, inventions, discoveries and improvements, that the same are unencumbered, that no license has been granted to make, use, or vend the said apparatus, inventions, discoveries or improvements or any of them, and that we have the full right to make this Assignment.

And for said consideration, we agree individually that we will communicate to said Assignee or the representatives thereof any facts known to me respecting said apparatus, inventions, discoveries and improvements, and will, upon request, but without expense to me, testify in any legal proceedings, sign all lawful papers, execute all divisional, reissue, continuation, continuation-in-part, renewal, and/or extension applications, make all rightful oaths, and generally do all other and further lawful acts, deemed necessary or expedient by said Assignee or by counsel for said Assignee, to assist or enable said Assignee to obtain and enforce full benefits from the rights and interests herein assigned, and, in the event of any application or Letters Patent assigned herein becoming involved in Interference, to cooperate to the best of the ability of the undersigned in the matters of preparing and executing the preliminary statement and giving and producing evidence in support thereof. This Assignment shall be binding upon our heirs, executors, administrators, and/or assigns, and shall inure to the benefit of the heirs, executors, administrators, successors, and/or assigns, as the case may be, of said Assignee.

And for said consideration, the undersigned hereby agrees to execute, at the request of said Assignee, all documents in connection with any application for foreign letters patent therefor.

Executed: MAT STH, 2014

Executed: 05/12/204

Executed: <u>5/5/2014</u>

Executed: <u>5/5/2014</u>

Humberto Terrones

Mauricio Terrones

Ana Laura Elias

Nestor Perea-Lopez

Commonwealth of Pennsylvania
County of County of Ss:
Before me, a Notary Public in and for the said County and State, personally appeared, Humberto Terrones who acknowledged that he/she is the person who executed the foregoing Assignment and acknowledged it to be his/her free and voluntary act and deed.
Witness my hand and notarial seal this day of
COMMONWEALTH CE PENNSYLVANIA Notary Public
Tina M
Commonwealth of Pennsylvania
County of <u>Centre</u> ss:
Before me, a Notary Public in and for the said County and State, personally appeared, Mauricio Terrones who acknowledged that he/she is the person who executed the foregoing Assignment and acknowledged it to be his/her free and voluntary act and deed.
Witness my hand and notarial seal this 12^{11} day of 0
(Notarial Seal) Motary Public Notary Public
COMMONWEALTH OF PENNSYLVANIA Notarial Seal Tina M. Hyduke, Notary Public Patton Twp., Centre County My Commission Expires Nov. 18, 2016 MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

Commonwealth of Pennsylvania
County of <u>lentie</u> ss:
Before me, a Notary Public in and for the said County and State, personally appeared, Ana Laura Elias who acknowledged that he/she is the person who executed the foregoing Assignment and acknowledged it to be his/her free and voluntary act and deed.
Witness my hand and notarial seal this $\frac{5}{4}$ day of $\frac{100}{4}$, $\frac{100}{4}$.
(Notarial Seal) May What Hall May Notary Public
Time! Seal County Intel 22, 2015 MEMOR PSA COUNTY MEMOR PSA COU
COMMONWEALTH OF PENNSYLVANIA Notarial Seal Tina M. Hepfer, Notary Public State College Boro, Centre County My Commission Expires June 22, 2015 MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES
Commonwealth of Pennsylvania
County of Cantre ss:
Before me, a Notary Public in and for the said County and State, personally appeared, Nestor Perea-Lopez who acknowledged that he/she is the person who executed the foregoing Assignment and acknowledged it to be his/her free and voluntary act and deed.
Witness my hand and notarial seal this $\frac{1}{2}$ day of $\frac{1}{2}$, $\frac{1}{2}$.
(Notarial Seal) Notary Public
COMMONWEALTH OF PENNSYLVANIA Notarial Seal Tina M. Hepfer, Notary Public State College Boro, Centre County My Commission Expires June 22, 2015 MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

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