

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| TOBIN J. MARKS | 03/16/2012 |
| MERCOURI G. KANATZIDIS | 03/19/2012 |
| MYUNG-GIL KIM | 03/19/2012 |
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| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 14606014 |
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| NAME OF SUBMITTER: | KAREN K. CHAN |
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| DATE SIGNED: | 04/10/2015 |
| Total Attachments: 3 | |
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ASSIGNMENT

WHEREAS, We, Tobin J. Marks, Mercuri G. Kanatzidis, and Myung-Gil Kim, together with Antonio Facchetti, William Christopher Sheets, He Yan, and Yu Xia, have invented one or more inventions described in an application (or provisional application) for Letters Patent of the United States entitled:

LOW-TEMPERATURE FABRICATION OF METAL OXIDE THIN FILMS AND NANOMATERIAL-DERIVED METAL COMPOSITE THIN FILMS

and identified by

Attorney Docket No. NWU-015PC, and/or executed by us on even date herewith and about to be filed in the U.S. Patent and Trademark Patent Office; and

International Application No. PCT/US2012/023042 filed in the U.S. Patent and Trademark Office as the Receiving Office on January 27, 2012; and

WHEREAS, Northwestern University (hereinafter "ASSIGNEE"), a not for profit corporation organized and existing under the laws of the State of Illinois and having a usual place of business at 633 Clark Street, Evanston, Illinois 60208, United States of America, desires to acquire an interest therein, in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, at least as early as the filing date of said application, our entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to the invention(s) described in said application, together with our entire right, title and interest in and to said application, and such Letters Patent that may issue thereon and applications that claim priority thereto under United States law or international convention, and such Letters Patent that may issue thereon, including but not limited to non-U.S., international, non-provisional, continuation, divisional, reissue, reexamination, extension, and substitution applications of said application and such Letters Patent, and any right, title and interest we may have in provisional applications to which said application claims priority; said invention(s), applications and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all of our rights arising under or pursuant to any and all United States laws and international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent, including but not limited to any cause(s) of action and damages accruing prior to this assignment. We hereby acknowledge that this assignment, being of our entire right, title and interest in and to said invention(s), carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all Letters Patent to ASSIGNEE in its own name as assignee of our entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed

necessary to secure fully the aforesaid invention(s) to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of papers for filing of non-provisional, substitution, continuation, divisional, reissue, reexamination, and corresponding foreign and international patent applications;

AND, we hereby further agree to provide statements or testimony in any interference or other proceeding in which said invention(s) or any application or patent directed thereto may be involved;

AND, we hereby authorize ASSIGNEE or its attorneys or agents to insert the correct serial number and filing date into this assignment, if none is indicated on the date of our execution of this assignment;

AND, we hereby authorize and request the Director of the United States Patent and Trademark Office and the empowered officials of all other governments to issue such Letters Patent as shall be granted upon said application, or applications based thereon, to said ASSIGNEE, its successors, assigns or legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals on the date(s) set forth below.

Inventor: 
Tobin J. Marks

State of Illinois)
County of Cook) ss

On this 16 day of ~~FEBRUARY~~ MARCH 2012, Tobin J. Marks personally appeared before me, known by me to be the same person described in and who executed the foregoing instrument, and acknowledged that he/she executed the same, of his/her own free will and for the purposes set forth.


Signature of Notary Public

(Seal)

My Commission Expires: 1-21-2014



Inventor: 

Mercouri G. Kanatzidis

State of Illinois)
County of COOK) ss

On this 19 day of ~~FEBRUARY~~ ^{MARCH} 2012, Mercouri G. Kanatzidis personally appeared before me, known by me to be the same person described in and who executed the foregoing instrument, and acknowledged that he/she executed the same, of his/her own free will and for the purposes set forth.



Signature of Notary Public

(Seal)

My Commission Expires: 1-21-2014



Inventor: 

Myung-gil Kim

State of Illinois)
County of COOK) ss

On this 19 day of ~~FEBRUARY~~ ^{MARCH} 2012, Myung-gil Kim personally appeared before me, known by me to be the same person described in and who executed the foregoing instrument, and acknowledged that he/she executed the same, of his/her own free will and for the purposes set forth.



Signature of Notary Public

(Seal)

My Commission Expires: 1-21-2014

