

## PATENT ASSIGNMENT COVER SHEET

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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>TIANNIU CHEN</td> <td>08/27/2013</td> </tr> <tr> <td>NICOLE E. THOMAS</td> <td>06/13/2013</td> </tr> <tr> <td>STEVEN LIPPY</td> <td>06/03/2013</td> </tr> <tr> <td>JEFFREY A. BARNES</td> <td>06/03/2013</td> </tr> <tr> <td>EMANUEL I. COOPER</td> <td>06/03/2013</td> </tr> <tr> <td>PENG ZHANG</td> <td>09/03/2013</td> </tr> </tbody> </table>		Name	Execution Date	TIANNIU CHEN	08/27/2013	NICOLE E. THOMAS	06/13/2013	STEVEN LIPPY	06/03/2013	JEFFREY A. BARNES	06/03/2013	EMANUEL I. COOPER	06/03/2013	PENG ZHANG	09/03/2013
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<table border="1"> <tr> <td>Name:</td> <td>ADVANCED TECHNOLOGY MATERIALS, INC.</td> </tr> <tr> <td>Street Address:</td> <td>7 COMMERCE DRIVE</td> </tr> <tr> <td>City:</td> <td>DANBURY</td> </tr> <tr> <td>State/Country:</td> <td>CONNECTICUT</td> </tr> <tr> <td>Postal Code:</td> <td>06810</td> </tr> </table>		Name:	ADVANCED TECHNOLOGY MATERIALS, INC.	Street Address:	7 COMMERCE DRIVE	City:	DANBURY	State/Country:	CONNECTICUT	Postal Code:	06810				
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Application Number:	13877777														
CORRESPONDENCE DATA															
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NAME OF SUBMITTER:	TRISTAN A. FUIERER														

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Signature:	/tristan a. fuierer/
Date:	10/22/2013
<b>Total Attachments: 4</b> source=Assignment_Executed_FULL#page1.tif source=Assignment_Executed_FULL#page2.tif source=Assignment_Executed_FULL#page3.tif source=Assignment_Executed_FULL#page4.tif	

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**ASSIGNMENT**

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We, **TIANNIU CHEN, NICOLE E. THOMAS, STEVEN LIPPY, JEFFREY A. BARNES, EMANUEL I. COOPER, AND PENG ZHANG**, have made an invention which is described in U.S. Patent Application No. 13/877,777 filed April 4, 2013, in the United States Patent and Trademark Office entitled:

**"COMPOSITION AND PROCESS FOR SELECTIVELY ETCHING METAL NITRIDES"**

We hereby assign to **Advanced Technology Materials, Inc., 7 Commerce Drive, Danbury, Connecticut, 06810, USA**, all ownership and rights in:

- (i) the invention and U.S. Patent Application;
- (i) non-provisional, continuing, divisional and continuation-in-part applications based on and claiming benefit and/or priority of said U.S. Patent Application;
- (iii) U.S. Patents on the invention; and
- (iv) corresponding foreign patent applications and patents.

We are making this assignment based on our employment relationship with **Advanced Technology Materials, Inc.**

We respectfully request the Commissioner for Patents of the United States and the appropriate officers of all foreign countries to issue patents on the invention to:

**Advanced Technology Materials, Inc.**

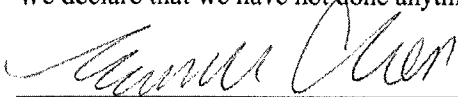
as owners of the invention and aforementioned patent rights.

We agree to execute any other legal documents that may be required to effectuate this Assignment.

We agree that we will promptly communicate to **Advanced Technology Materials, Inc.** all facts which come to our attention affecting the invention or patent rights.

We agree that we will testify in any interference or litigation involving the invention or patent rights.

We declare that we have not done anything in conflict with this Assignment.



**TIANNIU CHEN**

08/27/13

Date

**NICOLE E. THOMAS**

Date

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**TIANNIU CHEN**



**NICOLE E. THOMAS**

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Date



Date

  
STEVEN LIPPY

6/3/13  
Date

  
JEFFREY A. BARNES

06/03/2013  
Date

  
EMANUEL I. COOPER

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IRI:843797-1