

PATENT ASSIGNMENT

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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>Matthew Grayson</td> <td>01/30/2013</td> </tr> <tr> <td>Chuanle Zhou</td> <td>01/30/2013</td> </tr> </tbody> </table>		Name	Execution Date	Matthew Grayson	01/30/2013	Chuanle Zhou	01/30/2013				
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Northwestern University</td> </tr> <tr> <td>Street Address:</td> <td>633 Clark Avenue</td> </tr> <tr> <td>City:</td> <td>Evanston</td> </tr> <tr> <td>State/Country:</td> <td>ILLINOIS</td> </tr> <tr> <td>Postal Code:</td> <td>60208</td> </tr> </table>		Name:	Northwestern University	Street Address:	633 Clark Avenue	City:	Evanston	State/Country:	ILLINOIS	Postal Code:	60208
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CORRESPONDENCE DATA											
<p>Fax Number: 3145844061 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 3145844080 Email: docket@splglaw.com Correspondent Name: The Small Patent Law Group LLC Address Line 1: 225 S. Meramec Ave. Address Line 2: Suite 725 Address Line 4: St Louis, MISSOURI 63105</p>											
ATTORNEY DOCKET NUMBER:	NU2011-097-03(316-0023US)										
NAME OF SUBMITTER:	Christopher R. Carroll										
<p>Total Attachments: 2 source=NU2011-097EXECUTEDASSIGNMENTJANUARY2013MGRAYSONETAL#page1.tif source=NU2011-097EXECUTEDASSIGNMENTJANUARY2013MGRAYSONETAL#page2.tif</p>											

OP \$40.00 13735373

ASSIGNMENT

WHEREAS, WE, MATTHEW GRAYSON and CHUANLE ZHOU (hereinafter collectively referred to as ("ASSIGNORS")) have invented certain new and useful improvements as described and set forth in the below-identified application for United States Letters Patent:

Title of Patent Application: *Anisotropic Ambipolar Transverse Thermoelectrics and Methods for Manufacturing the Same*

Application Filing Date: January 7, 2013

Serial No.: 13/735,373

WHEREAS, Northwestern University, an Illinois not-for-profit corporation, having a place of business at 633 Clark Street, Evanston, Illinois 60208, hereinafter referred to as "ASSIGNEE," is desirous of acquiring the entire right, title and interest in said invention and application and in any Letters Patent which may be granted on the same;

NOW THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, receipt of which is hereby acknowledged, ASSIGNORS have sold, assigned and transferred, and by these presents do sell, assign and transfer unto said ASSIGNEE, and ASSIGNEE's successors and assigns, all right, title and interest in and to said invention, said application for United States Letters Patent, and any Letters Patent which may hereafter be granted on the same in the United States and all countries throughout the world, including any divisions, renewals, continuations in whole or in part, substitutions, conversions, reissues, or prolongations or extensions thereof, said interest to be held and enjoyed by said ASSIGNEE as fully and exclusively as it would have been held and enjoyed by said ASSIGNORS had this assignment and transfer not been made, to the full extent and term of any Letters Patent.

ASSIGNORS further agree that ASSIGNORS will, without charge to said ASSIGNEE, but at ASSIGNEE's expense, cooperate with ASSIGNEE in the prosecution of said application and/or applications; execute, verify, acknowledge, and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof; and perform such other acts as ASSIGNEE lawfully may request, to obtain or maintain Letters Patent for said invention and improvement in any and all countries, and to vest title thereto in said ASSIGNEE, or ASSIGNEE's successors and assigns.

IN TESTIMONY WHEREOF, ASSIGNORS have hereunto signed ASSIGNORS' names to this Assignment on the date indicated below.

Matthew Grayson
MATTHEW GRAYSON
1/30/13
DATE

State of ILLINOIS
County of COOK ss.

On this 30 day of JANUARY, 2013, before me, a Notary Public in and for the County and State aforesaid, appeared, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he or she executed said instrument as his or her free and voluntary act and for the uses and purposes therein expressed.

Ana Maria Andras
NOTARY PUBLIC

[NOTARY SEAL]

My Commission Expires: 10/23/16



