

# PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT																
NATURE OF CONVEYANCE:	ASSIGNMENT																
<b>CONVEYING PARTY DATA</b>																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr><td>David TANNER</td><td>01/21/2011</td></tr> <tr><td>Hein-Minh Huu LE</td><td>01/21/2011</td></tr> <tr><td>Quancheng (Tommy) GU</td><td>01/20/2011</td></tr> <tr><td>Shuran SHENG</td><td>01/21/2011</td></tr> <tr><td>Yong Kee CHAE</td><td>01/20/2011</td></tr> <tr><td>Tzay-Fa (Jeff) SU</td><td>01/25/2011</td></tr> <tr><td>Dapeng WANG</td><td>01/20/2011</td></tr> </tbody> </table>		Name	Execution Date	David TANNER	01/21/2011	Hein-Minh Huu LE	01/21/2011	Quancheng (Tommy) GU	01/20/2011	Shuran SHENG	01/21/2011	Yong Kee CHAE	01/20/2011	Tzay-Fa (Jeff) SU	01/25/2011	Dapeng WANG	01/20/2011
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 20%;">Name:</td><td>Applied Materials, Inc.</td></tr> <tr><td>Street Address:</td><td>3050 Bowers Avenue</td></tr> <tr><td>City:</td><td>Santa Clara</td></tr> <tr><td>State/Country:</td><td>CALIFORNIA</td></tr> <tr><td>Postal Code:</td><td>95054</td></tr> </table>		Name:	Applied Materials, Inc.	Street Address:	3050 Bowers Avenue	City:	Santa Clara	State/Country:	CALIFORNIA	Postal Code:	95054						
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<b>CORRESPONDENCE DATA</b>																	
<p>Fax Number: (713)623-4846</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 713-623-4844</p> <p>Email: kneil@pattersonsheridan.com</p> <p>Correspondent Name: PATTERSON &amp; SHERIDAN, LLP</p> <p>Address Line 1: 3040 POST OAK BOULEVARD</p> <p>Address Line 2: SUITE 1500</p> <p>Address Line 4: HOUSTON, TEXAS 77056</p>																	
ATTORNEY DOCKET NUMBER:	APPM/014633.02																

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**PATENT**  
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NAME OF SUBMITTER:

Joseph J. Stevens

**Total Attachments: 8**

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**ASSIGNMENT FOR APPLICATION FOR PATENT**

WHEREAS:

Names and Addresses of Inventors:

1)	<b>David Tanner</b> 184 Cleaves Ave. San Jose, CA. 95126	2)	<b>Hein-Minh Huu Le</b> 2656 Flint Avenue San Jose, CA. 95148
3)	<b>Quancheng (Tommy) Gu</b> 44733 Camellia Drive Fremont, CA. 94539	4)	<b>Shuran Sheng</b> 10290 N. Foothill Blvd. #B3 Cupertino, CA. 95014
5)	<b>Yong Kee Chae</b> 1176 Hoskins Lane San Ramon, CA. 94582	6)	<b>Tzay-Fa (Jeff) Su</b> 1063 Cynthia Lane San Jose, CA. 95129
7)	<b>Dapeng Wang</b> 2050 Jackson Court, #7 Santa Clara, CA. 95050		

(hereinafter referred to as Assignors), have invented a certain invention entitled:

**METHODS OF MANUFACTURING THIN FILM SOLAR CELLS HAVING A HIGH  
CONVERSION EFFICIENCY**

for which application for Letters Patent in the United States was filed on December 28, 2010, under Serial No. 12/980,132, executed on even date herewith; and

WHEREAS, APPLIED MATERIALS, INC., a corporation of the State of Delaware, having a place of business at 3050 Bowers Avenue, Santa Clara, California 95054 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said application (hereinafter referred to as Application), and the invention disclosed therein (hereinafter referred to as Invention), and in and to all embodiments of the Invention, heretofore conceived, made or discovered by said Assignors, and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter referred to as Patents) thereon granted in any and all countries and groups of countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Assignors to have been received in full from said Assignee:

1. Said Assignors hereby sell, assign, transfer and convey to Assignee the full and exclusive right, title and interest (a) in and to said Application and said Invention; (b) in and to all rights to apply for patents on said Invention in any and all countries pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all Applications filed and any and all Patents granted on said Invention in any and all countries and groups of countries, including each and every Application filed and each and every Patent granted on any application which is a conventional, division, substitution, or continuation of said Application; and (d) in and to each and every reissue or extension of any of said Patents.

2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall include prompt production of pertinent facts and documents, giving testimony, execution of petitions,

**PATENT**

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oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, conventional, divisional, continuing or additional applications covering said Invention; (d) for filing and prosecuting applications for reissuance of any of said Patents; (e) for interference or other priority proceedings involving said Invention; and (f) for legal proceedings involving said Invention and any application therefore and any Patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Assignors in providing such cooperation shall be paid for by said Assignee.

3. The term and covenants of this agreement shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Assignors, their respective heirs, legal representatives and assigns.

4. Said Assignors hereby warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

5. I hereby authorize and request my attorneys, Patterson & Sheridan LLP, of 3040 Post Oak Blvd, Suite 1500, Houston Texas 77056, to insert above in parentheses (Application No. and Filing Date) the filing date and application number of said application when known.

IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to said Assignee on the dates indicated below.

1)	<u>1/21/11</u> (2011)	 _____ David Tanner
2)	_____ (2011)	_____ Hein-Minh Huu Le
3)	<u>1/20</u> (2011)	 _____ Quancheng (Tommy) Gu
4)	_____ (2011)	_____ Shuran Sheng
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**PATENT**

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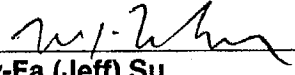
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