

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>QUNHUA WANG</td> <td>10/10/2013</td> </tr> <tr> <td>LAI ZHAO</td> <td>10/10/2013</td> </tr> <tr> <td>SOO YOUNG CHOI</td> <td>10/10/2013</td> </tr> </tbody> </table>		Name	Execution Date	QUNHUA WANG	10/10/2013	LAI ZHAO	10/10/2013	SOO YOUNG CHOI	10/10/2013		
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<table border="1"> <tr> <td>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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CORRESPONDENCE DATA											
Fax Number:	(713)623-4846										
Phone:	7136234844										
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Correspondent Name:	PATTERSON AND SHERIDAN, LLP										
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Address Line 4:	HOUSTON, TEXAS 77056										
ATTORNEY DOCKET NUMBER:	APPM/20477										
NAME OF SUBMITTER:	STEVEN H. VERSTEEG										
Signature:	/Steven H. VerSteeg/										

Date:

10/14/2013

Total Attachments: 2

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ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

1)	Qunhua WANG 1981 Worthington Circle Santa Clara, California 95050	2)	Lai ZHAO 955 Sheila Court Campbell, California 95008
3)	Soo Young CHOI 40369 Loro Place Fremont, California 94539		

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

**MULTI-LAYER AMORPHOUS SILICON STRUCTURE WITH IMPROVED POLY-SILICON QUALITY
AFTER EXCIMER LASER ANNEAL**

for which application for Letters Patent in the United States was filed on October 8, 2013, under Serial No. 14/049,197, 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.

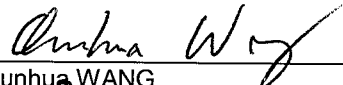
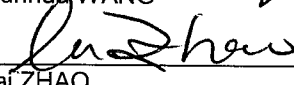
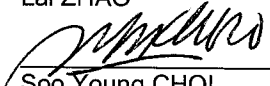
2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall include prompt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

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

1)	<u>10/10/13</u> (DATE)	<u></u> Qunhua WANG
2)	<u>10/10/13</u> (DATE)	<u></u> Lai ZHAO
3)	<u>10/10/13</u> (DATE)	<u></u> Soo Young CHOI