

## 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>Bo Zheng</td> <td>05/24/2012</td> </tr> <tr> <td>Arvind Sundarajan</td> <td>05/24/2012</td> </tr> <tr> <td>Xinyu Fu</td> <td>05/24/2012</td> </tr> </tbody> </table>	Name	Execution Date	Bo Zheng	05/24/2012	Arvind Sundarajan	05/24/2012	Xinyu Fu	05/24/2012	
Name	Execution Date								
Bo Zheng	05/24/2012								
Arvind Sundarajan	05/24/2012								
Xinyu Fu	05/24/2012								
RECEIVING PARTY DATA									
Name:	Applied Materials, Inc.								
Street Address:	3050 Bowers Avenue								
City:	Santa Clara								
State/Country:	CALIFORNIA								
Postal Code:	95054								
PROPERTY NUMBERS Total: 1									
Property Type	Number								
Application Number:	13480091								
CORRESPONDENCE DATA									
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<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>									
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Address Line 1:	595 Shrewsbury Avenue								
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Address Line 4:	Shrewsbury, NEW JERSEY 07702								
ATTORNEY DOCKET NUMBER:	APPM/15849 KT/AMD								
NAME OF SUBMITTER:	Keith Taboada								
Total Attachments: 2 source=APPM_15849_EASSIGN_5_12#page1.tif source=APPM_15849_EASSIGN_5_12#page2.tif									

OP \$40.00 13480091

**ASSIGNMENT FOR APPLICATION FOR PATENT**

WHEREAS:

Names and Addresses of Inventors:

1)	Bo ZHENG 20297 Seagull Way Saratoga, California 95070	2)	Arvind Sundarajan 72 Mirabelli Circle San Jose, California 95134
3)	Xinyu FU 502 Montori Court Pleasanton, California 94566		

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

**METHOD FOR REMOVING NATIVE OXIDE AND ASSOCIATED RESIDUE  
FROM A SUBSTRATE**

enclosed herewith or for which application for letters patent in the United States was filed on  
May 24, 2012 under Serial No. 13/480,091; 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.

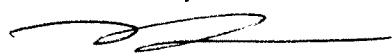
1) 5/24/2012 (2012)

  
Bo Zheng

2) 5/24/ (2012)

  
Arvind Sundarajan

3) 5/24/2012 (2012)

  
Xinyu Fu