## 502989161 09/24/2014

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3035760

SUBMISSION TYPE:		NEW ASSIGNMENT					
NATURE OF CONVEYANCE:		ASSIGNMENT					
CONVEYING PARTY D	ΑΤΑ						
		l	Name			Execution D	
XIKUN WANG						06/02/2014	
JIE LIU				06/02/2014			
ANCHUAN WANG				06/02/2014			
NITIN K. INGLE						06/04/2014	
JEFFREY ANTHIS				06/04/2014			
BENJAMIN SCHMIEGE						06/04/2014	
RECEIVING PARTY DA	TA						
Name:	Applied	Applied Materials, Inc.					
Street Address:	3050 B	owers	Avenue				
City:	Santa (	Santa Clara					
State/Country:	CALIFO	CALIFORNIA					
Postal Code:	95054						
PROPERTY NUMBERS Property Type	Total: 1		Number				
	Total: 1	14288					
Property Type							
Property Type Application Number:	ΑΤΑ	14288					
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## ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

1)	Xikun Wang 844 Fife Way Sunnyvale, CA 94087	2)	Jie Liu 888 Tamarack Ln #68 Sunnyvale CA 94086
3)	Anchuan Wang 6556 Bollinger Rd. San Jose, CA 95129	4)	Nitin K. Ingle 1435 Graywood Dr. San Jose, CA 95129
5)	Jeffrey W. Anthis 3115 Franela Dr. San Jose, CA 95124		Benjamin Schmiege 1000 Kiely Blvd #56 Santa Clara, CA 95051

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

## OXIDE AND METAL REMOVAL

for which application for Letters Patent in the United States was filed on May 28, 2014, under Application No. 14/288,696, 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 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, 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 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)	6121		the toul
2)	6121		Yikun Wang
3)	6/2/		Jie Liu
4)	6/4/		Anchuan Wang
5)	6/4/14	. 2014	Nittro 2 Trigte
5)	6/4/14	. 2014	Jeffrey W. Anthis
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**RECORDED: 09/24/2014**