

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JIANQI WANG	04/25/2017
WILLIAM MING-YE LU	04/25/2017
YIXING LIN	04/25/2017
KEVIN A. PAPKE	04/28/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	APPLIED MATERIALS, INC.
<b>Street Address:</b>	3050 BOWERS AVENUE
<b>City:</b>	SANTA CLARA
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	95054
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15487213
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Email:</b>	cthomas@pattersonsheridan.com, psdocketing@pattersonsheridan.com
<b>Correspondent Name:</b>	PATTERSON & SHERIDAN, LLP
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<b>ATTORNEY DOCKET NUMBER:</b>	23808 USA
<b>NAME OF SUBMITTER:</b>	KEITH M. TACKETT
<b>SIGNATURE:</b>	/Keith M. Tackett/
<b>DATE SIGNED:</b>	06/28/2017
<b>Total Attachments: 2</b>	
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Atty Dkt No.: Atty Dkt No. 023808/USA/AGS/AGS\_SPARES-OTHER/PJT  
**ASSIGNMENT FOR APPLICATION FOR PATENT**

WHEREAS:

Names and Addresses of Inventors:

1)	Jianqi WANG 4436 Mattos Drive Fremont, California 94536	2)	William Ming-ye LU 753 Carmel Ave. Sunnyvale, California 94085
3)	Yixing LIN 18026 King Court Saratoga, California 95070	4)	Kevin A. PAPKE 1125 NW 12th Ave., #301 Portland, Oregon 9720995126

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

**30 NM IN-LINE LPC TESTING AND CLEANING OF SEMICONDUCTOR PROCESSING  
EQUIPMENT**

for which application for Letters Patent in the United States was filed on April 13, 2017, under  
Serial No. 15/487,213, 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:


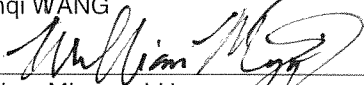


1. Said Assignors hereby sell, assign, transfer and convey to Assignee the full and  
exclusive right, title and interest (a) in and to said Application and said Invention; (b) in and to all  
rights to apply for patents on said Invention in any and all countries pursuant to the International  
Convention 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>4/25/2017</u> (DATE)	 Jianqi WANG
2)	<u>4/25/2017</u> (DATE)	 William Ming-ye LU
3)	<u>4/25/2017</u> (DATE)	 Yixing LIN
4)	<u>4/25/2017</u> (DATE)	 Kevin A. PAPKE