

## 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>
YANG YANG	07/13/2016
LUCY CHEN	07/13/2016
JIE ZHOU	07/14/2016
KARTIK RAMASWAMY	07/12/2016
KENNETH S. COLLINS	07/15/2016
SRINIVAS D. NEMANI	07/13/2016
CHENTSAU YING	07/13/2016
JINGJING LIU	07/13/2016
STEVEN LANE	07/13/2016
GONZALO MONROY	07/13/2016
JAMES D. CARDUCCI	07/13/2016
<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>	15195640
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(713)623-4846
<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>Phone:</b>	7136234844
<b>Email:</b>	nholland@pattersonsheridan.com, psdocketing@pattersonsheridan.com
<b>Correspondent Name:</b>	PATTERSON + SHERIDAN, LLP
<b>Address Line 1:</b>	595 SHREWSBURY AVE
<b>Address Line 2:</b>	SUITE 100

<b>Address Line 4:</b> SHREWSBURY, NEW JERSEY 07702	
<b>ATTORNEY DOCKET NUMBER:</b>	APPM/23991US
<b>NAME OF SUBMITTER:</b>	KEITH TABOADA
<b>SIGNATURE:</b>	/Keith Taboada/
<b>DATE SIGNED:</b>	07/25/2016
<b>Total Attachments: 3</b> source=APPM23991US_Assignment#page1.tif source=APPM23991US_Assignment#page2.tif source=APPM23991US_Assignment#page3.tif	

**ASSIGNMENT FOR APPLICATION FOR PATENT**

WHEREAS:

Names and Addresses of Inventors:

1)	Yang YANG 400 Pine Wood Ln Los Gatos, California 95032	2)	Lucy CHEN 3050 Bowers Avenue Santa Clara, California 95054
3)	Jie ZHOU 3011 Vesuvius Lane San Jose, California 95132	4)	Kartik RAMASWAMY 10020 Viewpoint Lane San Jose, California 95120
5)	Kenneth S. COLLINS 7214 Glenview Drive San Jose, California 95120	6)	Srinivas D. NEMANI 504 Fern Ridge Court Sunnyvale, California 94087
7)	Chentsau YING 10370 N. Blaney Avenue Cupertino, California 95014	8)	Jingjing LIU 1812 Lee Way Milpitas, California 95035
9)	Steven LANE 1216 N. Beverly Street Porterville, California 93257	10)	Gonzalo MONROY 3050 Bowers Avenue Santa Clara, California 95054
11)	James D. CARDUCCI 731 Gail Avenue Sunnyvale, California 94086	12)	

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

**DIAMOND LIKE CARBON LAYER FORMED BY AN ELECTRON BEAM PLASMA PROCESS**

for which application for Letters Patent in the United States was filed on June 28, 2016, under Serial No. 15/195,640, 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)

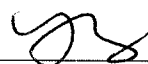
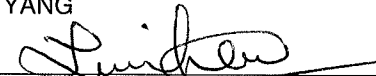
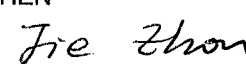


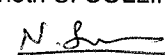
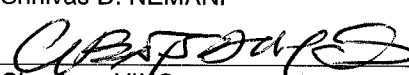
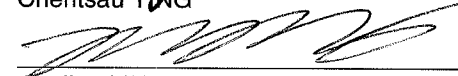

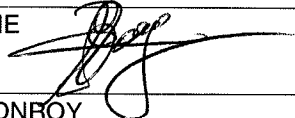
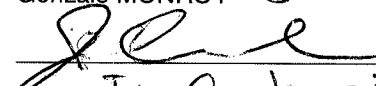
in and to each and every reissue or extension of any of said Patents.

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>7/13/16</u> (DATE)	<u></u> Yang YANG
2)	<u>7/13/16</u> (DATE)	<u></u> Lucy CHEN
3)	<u>7/14/16</u> (DATE)	<u></u> Jie ZHOU
4)	<u>July 12 2016</u> (DATE)	<u></u> Kartik RAMASWAMY
5)	<u>7/15/16</u> (DATE)	<u></u> Kenneth S. COLLINS
6)	<u>7/13/16</u> (DATE)	<u></u> Srinivas D. NEMANI
7)	<u>7/13/16</u> (DATE)	<u></u> Chentsau YING
8)	<u>7/13/16</u> (DATE)	<u></u> Jingjing LIU
9)	<u>7-13-16</u> (DATE)	<u></u> Steven LANE
10)	<u>7/13/16</u> (DATE)	<u></u> Gonzalo MONROY
11)	<u>7/13/16</u> (DATE)	<u></u> Jim Carducci

**Atty Dkt No.:** APPM/23991US (1016.081025)

James D. CARDUCCI