

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
JINGMEI LIANG	05/16/2018
YONG SUN	05/15/2018
JINRUI GUO	05/15/2018
PRAKET P. JHA	05/15/2018
JUNG CHAN LEE	05/15/2018
TZA-JING GUNG	05/15/2018
MUKUND SRINIVASAN	06/12/2018
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:	16882989
CORRESPONDENCE DATA	
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NAME OF SUBMITTER:	CHAD M. DOUGHERTY
SIGNATURE:	/Chad M. Dougherty/
DATE SIGNED:	05/28/2020

Total Attachments: 2

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Atty Dkt No.: 025217USA

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

1)	Jingmei LIANG 1256 Mountain Quail Circle San Jose, California 95120	2)	Yong SUN 1444 Birchmeadow Lane San Jose, California 95131
3)	Jinrui GUO 3539 Monroe Street, Apt. 401 Santa Clara, California 95051	4)	Praket P. JHA 4241 Norwalk Drive, Apt. Z-209 San Jose, California 95129
5)	Jung Chan LEE 1973 Stonewood Lane San Jose, California 95132	6)	Tza-Jing GUNG 933 Sunbonnet Loop San Jose, California 95125
7)	Mukund SRINIVASAN 43488 Laurel Glen Common Fremont, California 94539		

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

**CYCLIC FLOWABLE DEPOSITION AND HIGH-DENSITY PLASMA TREATMENT PROCESSES
FOR HIGH QUALITY GAP FILL SOLUTIONS**

for which application for Letters Patent in the United States was filed on May 11, 2018, under Serial No. 15/977,380, 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

Atty Dkt No.: 025217USA

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)	5/16/2018 7:10:58 PM CDT _____(DATE)	DocuSigned by: <i>Jingmei Liang</i> D5F8C76CE89D4C3 Jingmei LIANG
2)	5/15/2018 4:05:04 PM CDT _____(DATE)	DocuSigned by: <i>Yong Sun</i> 413693C12E40434 Yong SUN
3)	5/15/2018 3:26:15 PM CDT _____(DATE)	DocuSigned by: <i>Jinrui Guo</i> 3A5FEC6836E54E5 Jinrui GUO
4)	5/15/2018 8:48:28 PM CDT _____(DATE)	DocuSigned by: <i>Praket P. Jha</i> 235EDC869C02443 Praket P. JHA
5)	5/15/2018 3:25:03 PM CDT _____(DATE)	DocuSigned by: <i>Jung Chan Lee</i> C0E858770C074DE Jung Chan LEE
6)	5/15/2018 4:14:54 PM CDT _____(DATE)	DocuSigned by: <i>Tza-Jing Gung</i> 71EE84306A424C4 Tza-Jing GUNG
7)	6/12/2018 5:45:22 PM CDT _____(DATE)	DocuSigned by: <i>Mukund Srinivasan</i> 310C4C21E841313 Mukund SRINIVASAN