

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5910839

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
LEI GUO	01/09/2020
PRAKET P. JHA	09/10/2018
MILIND GADRE	10/22/2018
DEENESH PADHI	11/14/2018
TZA-JING GUNG	09/10/2018
<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>	16120867
<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>	kneil@pattersonsheridan.com, psdocketing@pattersonsheridan.com
<b>Correspondent Name:</b>	PATTERSON & SHERIDAN, LLP - - APPLIED MA
<b>Address Line 1:</b>	24 GREENWAY PLAZA
<b>Address Line 2:</b>	SUITE 1600
<b>Address Line 4:</b>	HOUSTON, TEXAS 77046
<b>ATTORNEY DOCKET NUMBER:</b>	APPM/25198US
<b>NAME OF SUBMITTER:</b>	JOSEPH J. STEVENS
<b>SIGNATURE:</b>	/Joseph J. Stevens/
<b>DATE SIGNED:</b>	01/14/2020
<b>Total Attachments: 2</b>	

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Atty Dkt No.: 025198US01

**ASSIGNMENT FOR APPLICATION FOR PATENT**

WHEREAS:

Names and Addresses of Inventors:

1)	Lei GUO 2744 Royalvale Way, <del>2104 Royal Dr., Apt 11</del> San Jose, CA 95132 <del>Santa Clara, California 95050</del>	2)	Praket P. JHA 4241 Norwalk Drive, Apt. Z-209 San Jose, California 95129
3)	Milind GADRE 2400 Homestead Ct., Apt 214 Los Altos, California 94024	4)	Deenesh PADHI 776 Shasta Fir Drive Sunnyvale, California 94086
5)	Tza-Jing GUNG 933 Sunbonnet Loop San Jose, California 95125		

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

**OXIDE WITH HIGHER UTILIZATION AND LOWER COST**

for which application for Letters Patent in the United States was filed on September 4, 2018, under Serial No. 16/120,867, 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

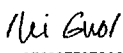
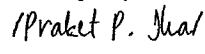
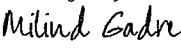
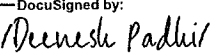

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application therefore and any Patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense 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>1/9/2020</u> (DATE)	DocuSigned by:  9E283E78E0A9433 Lei GUO
2)	<u>9/10/2018 11:17:04 AM CDT</u> (DATE)	DocuSigned by:  68EFD6E09DD24A1 Praket P. JHA
3)	<u>10/22/2018 2:58:23 PM CDT</u> (DATE)	DocuSigned by:  C7E38CB2813CA9C Milind GADRE
4)	<u>11/14/2018 1:41:10 PM CST</u> (DATE)	DocuSigned by:  998C1984C237480 Deenesh PADHI
5)	<u>9/10/2018 11:54:01 AM CDT</u> (DATE)	DocuSigned by:  D1FF84396A424C4 Tza-Jing GUNG