

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
HSIU YANG	02/06/2020
YAO-HUNG YANG	02/14/2020
JEEVAN SHANBHAG	02/06/2020
CHIEN-MIN LIAO	02/06/2020
EARL HUNTER	02/06/2020
DAVID GANON	02/06/2020
MARIANA LUIGI	02/06/2020
SIAMAK SALIMIAN	03/04/2020
TOM K. CHO	02/10/2020
CHUN-CHUNG CHEN	02/06/2020
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:	16702031
CORRESPONDENCE DATA	
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<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>	
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Email:	PSDocketing@pattersonsheridan.com, jmunoz@pattersonsheridan.com
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Address Line 1:	24 GREENWAY PLAZA
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ATTORNEY DOCKET NUMBER:	44017235US01
NAME OF SUBMITTER:	KEITH TABOADA
SIGNATURE:	/KEITH TABOADA/
DATE SIGNED:	03/04/2020
Total Attachments: 3 source=44017235US01_ASG#page1.tif source=44017235US01_ASG#page2.tif source=44017235US01_ASG#page3.tif	

Atty Dkt No.: 44017235US01

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

1)	Hsiu YANG c/o Applied Materials, Inc., Law Dept., M/S 1269 3050 Bowers Avenue Santa Clara, California 95054	2)	Yao-Hung YANG c/o Applied Materials, Inc., Law Dept., M/S 1269 3050 Bowers Avenue Santa Clara, California 95054
3)	Jeevan SHANBHAG c/o Applied Materials, Inc., Law Dept., M/S 1269 3050 Bowers Avenue Santa Clara, California 95054	4)	Chien-Min LIAO c/o Applied Materials, Inc., Law Dept., M/S 1269 3050 Bowers Avenue Santa Clara, California 95054
5)	Earl HUNTER c/o Applied Materials, Inc., Law Dept., M/S 1269 3050 Bowers Avenue Santa Clara, California 95054	6)	David GANON c/o Applied Materials Israel Ltd. 9 Oppenheimer Street Rehovot, Israel 76705
7)	Mariana LUIGI c/o Applied Materials, Inc., Law Dept., M/S 1269 3050 Bowers Avenue Santa Clara, California 95054	8)	Siamak SALIMIAN c/o Applied Materials, Inc., Law Dept., M/S 1269 3050 Bowers Avenue Santa Clara, California 95054
9)	Tom K. CHO c/o Applied Materials, Inc., Law Dept., M/S 1269 3050 Bowers Avenue Santa Clara, California 95054	10)	Chun-Chung CHEN c/o Applied Materials, Inc., Law Dept., M/S 1269 3050 Bowers Avenue Santa Clara, California 95054

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

**METHOD AND SYSTEM FOR IMPROVING THE OPERATION OF SEMICONDUCTOR
PROCESSING**

for which application for Letters Patent in the United States was filed on December 3, 2019,
under Serial No. 16/702,031, 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:

Atty Dkt No.: 44017235US01

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) 2/6/2020 (DATE)

DocuSigned by:



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Hsiu YANG

2) 2/14/2020 (DATE)

DocuSigned by:

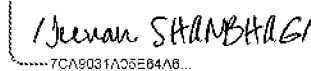


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Yao-Hung YANG

3) 2/6/2020 (DATE)

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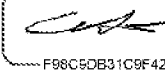


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Jeevan SHANBHAG

4) 2/6/2020 (DATE)

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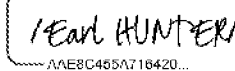


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Chien-Min LIAO

5) 2/6/2020 (DATE)

DocuSigned by:



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Earl HUNTER

Atty Dkt No.: 44017235US01

6) 2/6/2020 (DATE)

DocuSigned by:
David GANON
14FCCC99026423...
David GANON

7) 2/6/2020 (DATE)

DocuSigned by:
Mariana LUIGI
DD66E3A57D5F4A2...
Mariana LUIGI

8) 3/4/2020 (DATE)

DocuSigned by:
Siamak SALIMIAN
6C0FFD3DBA0E43C...
Siamak SALIMIAN

9) 2/10/2020 (DATE)

DocuSigned by:
Tom K. CHO
8AC0CB3D27F54FD...
Tom K. CHO

10) 2/6/2020 (DATE)

DocuSigned by:
Chun-Chung CHEN
C7591E761147477...
Chun-Chung CHEN