505800186 12/03/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DANIEL HWUNG	11/08/2019
YUXING ZHANG	07/31/2019
KALYANJIT GHOSH	10/11/2019
KAUSHIK ALAYAVALLI	08/05/2019
AMIT KUMAR BANSAL	07/31/2019

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:	16510845

CORRESPONDENCE DATA

Fax Number: (713)623-4846

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.

Phone: 7136234844

Email: psdocketing@pattersonsheridan.com,

aregan@pattersonsheridan.com

Correspondent Name: PATTERSON & SHERIDAN, LLP

Address Line 1: 24 GREENWAY PLAZA

Address Line 2: SUITE 1600

Address Line 4: HOUSTON, TEXAS 77046

ATTORNEY DOCKET NUMBER:	APPM/25726US
NAME OF SUBMITTER:	KEITH TABOADA
SIGNATURE:	/Keith Taboada/
DATE SIGNED:	12/03/2019
	•

Total Attachments: 6

PATENT REEL: 051161 FRAME: 0898

EPAS ID: PAT5847015

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ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

1)	Daniel HWUNG 215 Gregg Drive Los Gatos, California 95032	2)	Yuxing ZHANG 1573 Vista Club Circle, #302 Santa Clara, California 95054
3)	Kalyanjit GHOSH 648 Palomino Drive Pleasanton, California 94566	4)	Kaushik ALAYAVALLI 778 Dartshire Way Sunnyvale, California 94087
5)	Amit Kumar BANSAL 2209 Shiloh Avenue Milpitas, California 95035		

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

FACEPLATE WITH EMBEDDED HEATER

for which application for Letters Patent in the United States was filed on July 12, 2019, under Serial No. 16/510,845, 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)		(DATE)	
			Daniel HWUNG
2)	7/31/2019	(DATE)	Puxing Zhang Yuxing Zhang Yuxing Zhang
3)		(DATE)	Kalyanjit GHOSH
4)	8/5/2019	(DATE)	DocuSigned by: Power Power Note: Proposition of the control of
5)	7/31/2019	(DATE)	Imit Eumar Bansal/ O1EB29139D8A4CZ Amit Kumar BANSAL

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

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5)	Amit Kumar BANSAL 2209 Shiloh Avenue Milpitas, California 95035		

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1)	(DATE)	Daniel HWUNG
2)	(DATE)	Yuxing ZHANG
3)	(DATE)	Kalyanjit GHOSH
4)	(DATE)	Kaushik ALAYAVALLI
5)	(DATE)	Amit Kumar BANSAL

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WHEREAS:

Names and Addresses of Inventors:

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3)	Kalyanjit GHOSH 648 Palomino Drive Pleasanton, California 94566	4)	Kaushik ALAYAVALLI 778 Dartshire Way Sunnyvale, California 94087
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- 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)		_ (DATE)	Daniel HWUNG
2)		_(DATE)	Yuxing ZHANG
3)	10/11/2019	_ (DATE)	DocuSigned by: ARASEA519884496 Kalyanjit GHOSH
4)		_ (DATE)	Kaushik ALAYAVALLI
5)		_(DATE)	Amit Kumar BANSAL