506785155 07/26/2021

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6831974

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MANGESH ASHOK BANGAR	04/02/2021
GAUTAM PISHARODY	04/02/2021
LANCELOT HUANG	04/02/2021
ALAN L. TSO	07/26/2021
DOUGLAS A. BUCHBERGER JR.	04/02/2021
HUIXIONG DAI	04/02/2021
DMITRY LUBOMIRSKY	04/19/2021
SRINIVAS D. NEMANI	04/02/2021

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:	17222696

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.

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psdocketing@pattersonsheridan.com

Correspondent Name: PATTERSON + SHERIDAN, LLP

Address Line 1: 24 GREENWAY PLAZA, SUITE 1600

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ATTORNEY DOCKET NUMBER:	44018733US01
NAME OF SUBMITTER:	KEITH TABOADA
SIGNATURE:	/KEITH P. TABOADA/

PATENT 506785155 REEL: 056978 FRAME: 0479

DATE SIGNED: 07/26/2021

Total Attachments: 3
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PATENT REEL: 056978 FRAME: 0480

Atty Dkt No.: 44018733US01

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

·		,				
4	Mangesh Ashok BANGAR	σ,	Gautam PISHARODY			
1)	c/o Applied Materials, Inc., Law Dept.,	2)	c/o Applied Materials, Inc., Law Dept., M/S			
	M/S 1269		1269			
	3050 Bowers Avenue		3050 Bowers Avenue			
	Santa Clara, California 95054		Santa Clara, California 95054			
	Lancelot HUANG	4)	Alan L. TSO			
3)	c/o Applied Materials, Inc., Law Dept., M/S 1269	4)	c/o Applied Materials, Inc., Law Dept., M/S 1269			
	3050 Bowers Avenue		3050 Bowers Avenue			
	Santa Clara, California 95054		Santa Clara, California 95054			
	Douglas A. BUCHBERGER, Jr.		Huixiong DAI			
5)	c/o Applied Materials, Inc., Law Dept., M/S 1269	6)	c/o Applied Materials, Inc., Law Dept., M/S 1269			
	3050 Bowers Avenue		3050 Bowers Avenue			
	Santa Clara, California 95054		Santa Clara, California 95054			
	Dmitry LUBOMIRSKY		Srinivas D. NEMANI			
7)	c/o Applied Materials, Inc., Law Dept., M/S 1269	8)	c/o Applied Materials, Inc., Law Dept., M/S 1269			
	3050 Bowers Avenue		3050 Bowers Avenue			
	Santa Clara, California 95054		Santa Clara, California 95054			

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

APPARATUS AND METHODS FOR VERIFICATION AND RE-USE OF PROCESS FLUIDS

enclosed 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.

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- 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)	4/2/2021	(DATE)	Mangesh Bangar 22D9BG30567F4FD
2)	4/2/2021	(DATE)	Mangesh Ashok BANGAR Docusigned by: / Gautam Pisharody/
3)	4/2/2021	(DATE)	Compositioned by: // Carword HUING/
4)	7/26/2021	(DATE)	DocuSigned by: // // // // // // // // // // // // //
5)	4/2/2021	(DATE)	Douglas & Bulberger, Jr./
6)	4/2/2021	(DATE)	DocuSigned by: (Huixiong Dai/4205FF5059F3494 Huixiong DAI
7)	4/19/2021	(DATE)	Docusigned by: Dmitry Lubomirsky/ 03B2AA04A0054D9

RECORDED: 07/26/2021

Atty Dkt No.: 44018733US01

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DocuSigned by:

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