505304655 01/30/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5351435

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ADIB KHAN	02/11/2015
SHANKAR VENKATARAMAN	02/21/2015
JAY D. PINSON II	02/13/2015
JANG-GYOO YANG	03/18/2015
NITIN KRISHNARAO INGLE	02/22/2015
QIWEI LIANG	02/11/2015

RECEIVING PARTY DATA

Name:	ame: APPLIED MATERIALS, INC.	
Street Address: 3050 BOWERS AVENUE		
City:	y: SANTA CLARA	
State/Country: CALIFORNIA		
Postal Code: 95054		

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	16164392	

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.

Email: psdocketing@pattersonsheridan.com,

inewell@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:	17019USC01	
NAME OF SUBMITTER:	JOSEPH J. STEVENS	
SIGNATURE:	/Joseph J. Stevens/	
DATE SIGNED:	01/30/2019	

PATENT 505304655 REEL: 048193 FRAME: 0414

Total Attachments: 6 source=17019USC01 Assignment#page1.tif source=17019USC01 Assignment#page2.tif source=17019USC01 Assignment#page3.tif source=17019USC01 Assignment#page4.tif

source=17019USC01 Assignment#page5.tif source=17019USC01 Assignment#page6.tif

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

1)	Adib KHAN 4473 Lafayette Street Santa Clara, California 95054	2)	Shankar VENKATARAMAN 5974 Thorntree Drive San Jose, California 95120
3)	Jay D. PINSON, II 6879 Queenswood Way San Jose, California 95120	4)	Jang-Gyoo YANG 1960 Spanish Bay Court San Jose, California 95138
5)	Nitin Krishnarqo INGLE 1435 Graywood Drive San Jose, California 95129	6)	Qiwei LIANG 37800 Freesia Court Fremont, California 94536

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

BATCH CURING CHAMBER WITH GAS DISTRIBUTION AND INDIVIDUAL PUMPING

for which application for Letters Patent in the United States was filed on December 19, 2014, under Serial No. 14/577,828, 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, little 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 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.
- 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)	02/11/15 (DATE)	44.
	**************************************	Adib KHAN
2)	(DATE)	
		Shankar VENKATARAMAN
3)	(DATE)	3
		Jay D. PINSON, II
4)	(DATE)	
		Jang-Gyoo YANG
5)	(DATE)	
	e e e e e e e e e e e e e e e e e e e	Nitin Krishnarao INGLE
6)	2/11/15 (DATE)	
	**************************************	Qiwei LIANG

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3}	(DATE)	
2)	-2/2//STOATE)	Adib KHAN KNOCO P Shankar VENKATAFIAMAN
3)	-FELDEZ (MATE)	JAN O. PHISOHAM NO.
4)	(DATE)	Jang-Gyoo YANG
5)	1/2/1/6 (DATE)	22 Esh 2015 Nitin Krishnarao INGLE
6)	(DATE)	Qiwei LIANG

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3)	(DATE)	Jay D. PINSON, II
4)	_3/19/30/5 (DATE)	Jang-Gyoo YANG
5)	(DATE)	Nitin Krishnarao INGLE
6)	(DATE)	Qiwei LIANG