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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5024434

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
BHARATH SWAMINATHAN	04/10/2018
JOHN MAZZOCCO	03/12/2018
HANBING WU	03/27/2018
ASHISH GOEL	06/18/2018
ANANTHA K. SUBRAMANI	06/18/2018

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:	15839018

CORRESPONDENCE DATA

Fax Number:

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: Imurphy@dsiplaw.com
Correspondent Name: SERVILLA WHITNEY LLC
Address Line 1: 33 WOOD AVENUE SOUTH

Address Line 2: SUITE 830

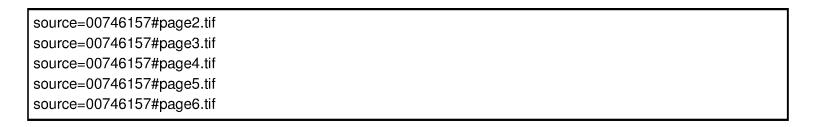
Address Line 4: ISELIN, NEW JERSEY 08830

ATTORNEY DOCKET NUMBER:	024649US01
NAME OF SUBMITTER:	JEFFREY I. BLANKMAN
SIGNATURE:	/Jeffrey I. Blankman, Reg. #57826/
DATE SIGNED:	06/26/2018

Total Attachments: 6 source=00746157#page1.tif

PATENT REEL: 046203 FRAME: 0374

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PATENT REEL: 046203 FRAME: 0375

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors

1)	Bharath Swaminathan 1615 Pala Ranch Cir. San Jose, CA, 95133 United States of America
2)	John Mazzocco 1418 Kimberly Dr. San Jose, CA, 95118 United States of America
3)	Hanbing Wu 830 El Capitan Dr. Millbrae, CA, 94030 United States of America

4)	Ashish Goel 74/3, 6th A Main, Malleshpalya New Thipsandra, Bangalore Karnataka, , 560075 India				
5)	Anantha K. Subramani 4245 Merlot Court San Jose, CA, 95135 United States of America				

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

"UHV In-Situ Cryo-Cool Chamber"

for which application for Letters Patent in the United States was filed on December 12, 2017,

under Serial No. 15839018, 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, CA, 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 the Application), and the invention disclosed therein (hereinafter referred to as the 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 the 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 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, 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.

1),	April 10 ,2018	(INVENTOR) Bharath Swaminathan
2)	, 2018	(INVENTOR) John Mazzocco
3)	, 2018	(INVENTOR) Hanbing Wu
4)	, 2018	(INVENTOR) Ashish Goel
5)	, 2018	(INVENTOR) Anantha K. Subramani

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1)	2018	
2)	13 MA/L 2018	(INVENTOR) Bharath Swaminathan (INVENTOR) John Mazzocco
3)	2018	(INVENTOR) Hanbing Wu
4)	, 2018	(INVENTOR) Ashish Goel
5)	, 2018	(INVENTOR) Anantha K. Subramani

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1)		, 2018	(INVENTOR) Bharath Swaminathan
2)		_, 2018	(INVENTOR) John Mazzocco
3)	March 27.	_, 2018	(INVENTOR) Hanbing Wu
4)		್ಷ 2018	(INVENTOR) Ashish Goel
5)		_ ₋ 2018	(INVENTOR) Anantha K. Subramani

Attorney Docket No. 024649US01

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* 1.000	<i>,</i> #	(INVENTOR) Bharath Swaminathan
2)		(INVENTOR) John Mazzocco
3)	, 2018	(INVENTOR) Hanbing Wu
للر (4	ne_13,2018	(INVENTORY Ashish Goel
5)		(INVENTOR) Ananiha K. Subramani

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1)	, 2018	
		(INVENTOR) Bharath Swaminathan
2)	, 2018	
		(INVENTOR) John Mazzocco
3)		(INVENTOR) Hanbing Wu
4)	, 2018	•
		(INVENTOR) Ashish Goel
-6	True 18th	Add and
5)	2018	(INVENTOR) Anantha K. Subramani