PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6297136

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SIDHARTH BHATIA	06/08/2020
DERMOT CANTWELL	06/08/2020
SERGHEI MALKOV	08/14/2020
JIE FENG	06/08/2020

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:	16880069

CORRESPONDENCE DATA

Fax Number: (973)597-6187

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: 9735972500

Email: JJones@lowenstein.com, Kcabrera@lowenstein.com

Correspondent Name: PATENT DOCKET ADMINISTRATOR

Address Line 1: LOWENSTEIN SANDLER LLP Address Line 2: ONE LOWENSTEIN DRIVE

Address Line 4: ROSELAND, NEW JERSEY 07068

ATTORNEY DOCKET NUMBER:	08090-428 (L0428)	
NAME OF SUBMITTER:	JOSEPH G. JONES	
SIGNATURE:	/Joseph G. Jones/	
DATE SIGNED:	09/14/2020	

Total Attachments: 3

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PATENT REEL: 053763 FRAME: 0784

Case No. 44017426US01

PATENT APPLICATION ASSIGNMENT

WHEREAS:

Names and Addresses of Inventors:

- (1) Sidharth Bhatia 5209 Coast Road, APT A Santa Cruz, CA 95060
- (3) Serghei Malkov 290 Carrick Circle Hayward, CA 94542

- (2) Dermot Cantwell 307 Orchard Ave. Sunnyvale, CA 94085
- (4) Jie Feng 475 Stulman Drive Milpitas, CA 95035

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

PREDICTIVE MODELING OF A MANUFACTURING PROCESS USING A SET OF INVERTED MODELS

for which a patent application of the United States has been filed on May 21, 2020 as Serial No. 16/880,069; 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 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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PATENT REEL: 053763 FRAME: 0785

Case No. 44017426US01

- 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 therefor 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.

6/8/2020	2222	Sidharth Bhatia
(date)	, 2020	Sidharth Bhatia
6/8/2020		Desmat Cantuell
(date)	, 2020	Dermot Cantwell
(date)	, 2020	Serghei Malkov
6/8/2020	, 2020	Serghei Malkov Jic Fung 52E9AD998BFC4EA
(date)	, = = = =	Jie Feng

- 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 therefor 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.
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(date)	, 2020	Sidharth Bhatia
(date)	, 2020	Dermot Cantwell
08/14/2020 (date)	, 2020	Serghei Malkov
(date)	, 2020	Jie Feng

Atty. Docket No. 08090.428 (L0428)

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