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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DANIEL O. CLARK	05/18/2013
YOUSSEF A. LOLDJ	05/25/2013
SHAUN W. CRAWFORD	05/20/2013
MAXIME CAYER	05/20/2013
TONY H. TONG	05/20/2013
ERIC RIESKE	05/20/2013

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:	15663068

CORRESPONDENCE DATA

Fax Number: (732)935-7122

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.

732-935-7100 Phone:

Izaveta@mtiplaw.com Email:

MOSER TABOADA/ALAN TABOADA **Correspondent Name:**

1030 BROAD STREET Address Line 1:

Address Line 2: SUITE 203

Address Line 4: SHREWSBURY, NEW JERSEY 07702

ATTORNEY DOCKET NUMBER:	15418USAC01
NAME OF SUBMITTER:	ALAN TABOADA
SIGNATURE:	/ALAN TABOADA/
DATE SIGNED:	08/08/2017

PATENT REEL: 043228 FRAME: 0937 504493481

Total Attachments: 3 source=APPM15418C01#page1.tif source=APPM15418C01#page2.tif source=APPM15418C01#page3.tif

PATENT REEL: 043228 FRAME: 0938

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

- 1) DANIEL O. CLARK 10 Cottage Loop Butte, MT 59701
- 2) YOUSSEF A. LOLDJ 614 Picasso Terrace Sunnyvale, CA 94087
- 3) SHAUN W. CRAWFORD 2827 Yarmouth Way San Ramon, CA 94583

- 4) MAXIME CAYER 1022 East Bartlett Way Chandler, AZ 85249
- 5) TONY H. TONG 2708 Buena View Court San Jose, CA 95121
- 6) ERIC RIESKE 813 Tanager Road Livermore, CA 94551

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

INTEGRATED CONTROLLER SOLUTION FOR MONITORING AND CONTROLLING MANUFACTURING EQUIPMENT

for which we have filed an application for a Patent of the United States on May 16, 2013, Serial No. 13/895,978; 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.
- 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 290705 1

PATENT REEL: 043228 FRAME: 0939 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.

1)	<u>5//9/20/</u> (Bate)	DANIEL O. CLARK
2)	(Date)	YOUSSEF A. LOLDJ
3)	(Date)	SHAUN W. CRAWFORD
4)	(Date)	MAXIME CAYER
5)	(Date)	TONY H. TONG
6)	(Date)	ERIC RIESKE

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.

1)	(Date)	
		DANIEL O. CLARK
2)	5 25 13 (Date)	YOUSSEF A. LOLDI
	•	COUNTY A. LOLLID
3)	<u> </u>	Thom finn
,		SHAUN W. CRAWFORD
4)	<u>05/20/13</u> (Date)	w/ch Can
	' (MAXIME CAYER
5)	5/20/13 (Date)	Long Long
		TONY H. TONG
6)	_5/2 <i>c</i> /13(Date)	
		ERIC RIESKE

RECORDED: 08/08/2017