502230237 02/13/2013

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
S.M. Reza Sadjadi	02/06/2013
Dmitry Lubomirsky	02/06/2013
Hamid Noorbakhsh	02/06/2013
John Zheng Ye	02/06/2013
David H. Quach	02/13/2013
Sean S. Kang	01/07/2013

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:	13766238

CORRESPONDENCE DATA

Fax Number: 7325309808

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 732-530-9404

Email: adevesty@pattersonsheridan.com, psdocketing@pattersonsheridan.com

Correspondent Name: Patterson & Sheridan, LLP Address Line 1: 595 Shrewsbury Avenue

Address Line 2: Suite 100

Address Line 4: Shrewsbury, NEW JERSEY 07702

ATTORNEY DOCKET NUMBER: APPM/17363 KT/AMD

PATENT

502230237 REEL: 029806 FRAME: 0686

DP \$40.00 13766238

NAME OF SUBMITTER:	Keith Taboada		
Total Attachments: 12			
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WHEREAS:

Names and Addresses of Inventors:

1)	S.M. Reza Sadjadi 801 S. Winchester Blvd. ApT-42/8 San Jose, CA 95128	2)	Dmitry Lubomirsky 862 Bette Avenue Cupertino, CA 95014
3)	Hamid Noorbakhsh 40327 Canyon Heights Drive Fremont, CA 95439	4)	John Ye Zheng 971White Drive Santa Clara, CA 95051
5)	David H. Quach 1205 Swinging Gate Court San Jose, CA 95120	6)	Sean S. Kang 5132 Holborn Way San Ramon, CA 94582

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

METHODS AND APPARATUS FOR CONTROLLING SUBSTRATE UNIFORMITY

enclosed herewith or for which application for Letters Patent in the United States was filed on February 13, 2013 under Serial No. 13/766, 238; 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.
- 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. $^{\prime}$

1)	2-6-20/3(DATE)	S:M. Réza Sadjadi
2)	(DATE)	Dmitry Lubomirsky
3)	(DATE)	Hamid Noorbakhsh
4)	(DATE)	John Ye Zheng
5)	(DATE)	David H. Quach
6)	(DATE)	Sean S. Kang

WHEREAS:

Names and Addresses of Inventors:

	S.M. Reza Sadjadi	۵,	Dmitry Lubomirsky
1)	801 S. Winchester Blvd.	2)	862 Bette Avenue
	San Jose, CA 95128		Cupertino, CA 95014
	Hamid Noorbakhsh	4)	John Ye Zheng
3)	40327 Canyon Heights Drive		971White Drive
	Fremont, CA 95439		Santa Clara, CA 95051
5)	David H. Quach	6)	Sean S. Kang
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1)	(DATE)	S.M. Reza Sądjadi	
2)	2/6/2013 (DATE)	Dritry Lubomirsky	
3)	(DATE)	Hamid Noorbakhsh	 v
4)	(DATE)	John Ye Zheng	
5)	(DATE)	David H. Quach	,
6)	(DATE)	Sean S. Kang	v=-

WHEREAS:

Names and Addresses of Inventors:

	S.M. Reza Sadjadi	2)	Dmitry Lubomirsky
1)	801 S. Winchester Blvd.		862 Bette Avenue
	San Jose, CA 95128		Cupertino, CA 95014
	Hamid Noorbakhsh		John Ye Zheng
3)	40327 Canyon Heights Drive	4)	971White Drive
	Fremont, CA 95439		Santa Clara, CA 95051
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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, intringement actions and court actions; provided, however, that the expense incurred by said Assignors in providing such cooperation shall be paid for by said Assignee.

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4)	(DATE)	John Ye Zheng
5)	(DATE)	David H. Quach
6)	(DATE)	Sean S. Kang

WHEREAS:

Names and Addresses of Inventors:

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ļ	San Jose, CA 95128		Cupertino, CA 95014
3)	Hamid Noorbakhsh	4)	John Ye-Zherro ZHENG YE
3)	40327 Canyon Heights Drive		971White Drive
	Fremont, CA 95439		Santa Clara, CA 95051
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2)	(DATE)	Dmitry Lubomirsky	***************************************
3)	(DATE)	Hamid Noorbakhsh	
4)	(eb.6,2013 (DATE)	John Ye-Zheng ZHENG YE	
5)	(DATE)	David H. Quach	
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RECORDED: 02/13/2013