Form PTO-1595 (Rev. 01-09) OMB No. 0651-0027 (exp. 02/28/2009)	U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office		
RECORDATION FOR			
PATENTS ONLY			
To the Director of the U.S. Patent and Trademark Office: Please	record the attached documents or the new address(es) below.		
Name of conveying party(ies):	2. Name and address of receiving party(les)		
Sivakumar Dhandapani (05/06/2011), Jun Qian	Name: APPLIED MATERIALS, INC.		
(05/06/2011), Christopher D. Cocca (05/02/2011), Jason G. Fung (05/06/2011),	Internal Address:		
Additional name(s) of conveying party(les) attached? X Yes No	Street Address:		
3. Nature of conveyance/Execution Date(s):	Street Address.		
Execution Date(s): In parentheses after inventor name	3050 Bowers Avenue		
x Assignment Merger Change of Name			
Security Agreement Joint Research Agreement	City: Santa Clara		
Government Interest Assignment	State: California		
Executive Order 9424, Confirmatory License	Country: United States of America Zip: 95054		
Other	Additional name(s) & address(es) Yes X No		
	attached?		
4. Application or patent number(s):	This document is being filed together with a new application.		
A. Patent Application No.(s)	B. Patent No.(s)		
13/087,180 filed 04/14/2011			
Additional numbers attached?	Yes X No		
Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:		
Name: B. Todd Patterson PATTERSON & SHERIDAN, LLP	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00		
Internal Address: Atty, Dkt.: APPM/14963US			
Street Address: 3040 Post Oak Blvd, Suite 1500	X Authorized to be charged to deposit account		
	Enclosed		
	None required (government interest not affecting title)		
	The reduced (3000 minority and 100 minority many)		
City: Houston	8. Payment Information		
State: TX Zip: 77056			
Phone Number: (713) 623-4844	Deposit Account Number 50-1074		
Fax Number: (713) 623-4846 Email Address: tpatterson@pattersonsheridan.com	Deposit Account Number 5U-1U/4 Authorized User Name Robert W. Mulcahy		
9. Signature:	b 7 0044		
Signature	June 7, 2011 Date		
Robert W. Mulcahy 925,436	Total number of pages including cover sheet, attachments, and documents: 5		
Robert W. Mulcahy 925,436 Name of Person Signing			
Name of Person Signing	sheet, attachments, and documents:		
	sheet, attachments, and documents:		

REEL: 026407 FRAME: 0681

RECORDATION FORM COVER SHEET (PTO-1595) (supplemental sheet)				
Additional Conveying Party(ies)/Execution Date(s) (1. Continued):				
Shou-Sung Chang (05/06/2011), Charles C. Garretson (05/23/2011), Gregory E. Menk (05/06/2011), and Stan D. TSAI (05/06/2011)				
Additional Assignees	(2. Continued):			
Assignee Name:			d	
Internal Address:				
Street Address:				
City:	State:	Country:	Zip:	
Assignee Name:	-			
Internal Address:				
Street Address:				
City:	State:	Country:	Zip:	
Assignee Name:				
Internal Address:				
Street Address:				
City:	State:	Country:	Zip:	
Additional Applications and/or Patents (4. Continued):				
Additional Patent Application Nur 4A. Continued:	mbers	Additional Patent Numbers 4B. Continued:		
Additional numbers attached? Yes No				

Docket No.: 014963/CMP/CMP/BOHN C

Atty Dkt No.: 014963/CMP/CMP/BOHN C

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

1)	SIVAKUMAR DHANDAPAN 1255 Crestpoint Drive		
	San Jose, California 95131		

JUN QIAN 575 Dublin Way Sunnyvale, California 94087

3) CHRISTOPHER D. COCCA 38286 Acacia Street Fremont, California 94536

JASON G. FUNG
4) 355 North Wolfe Road, Apt. 332
Sunnyvale, California 94085

SHOU-SUNG CHANG
5) 504 Shoal Circle
Redwood City, California 94065

6) CHARLES C. GARRETSON 147 N. Murphy Avenue Sunnyvale, California 94086

GREGORY E. MENK

7) 1833 Greenwood Road
Pleasanton, California 94566

STAN D. TSAI

8) 3312 Alpine Drive
Fremont, California 94555

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

CLOSED-LOOP CONTROL FOR IMPROVED POLISHING PAD PROFILES

for which application for Letters Patent in the United States was filed on April 14, 2011, under Serial No. 13/087,180, 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, 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

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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.

1)	5/6/11 (DATE)	apirtan
2)	5/6/11 (DATE)	JUN OJAN
3)	(DATE)	CHRISTOPHER D. COCCA
4)	5-6-2011 (DATE)	Jun La Turry ASON G. FUNG
5)	5-6-2011 (DATE)	SHOU-SUNG CHANG
6)	$\frac{5/23}{II}$ (DATE)	CHARLES C. GARRETSON
7)	5/6/11 (DATE)	GREGORY E. MENK
8)	5/6/11 (DATE)	STAN D. TSAI

Atty Dkt No.: 014963/CMP/CMP/BOHN C

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 Ilmitation 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)	SIVAKUMAR DHANDAPANI
2)	(DATE)	JUN QIAN
3)	5/2/21 (DATE)	CHRISTOPHER D. COCCA
4)	(DATE)	JASON G. FUNG
5)	(DATE)	SHOU-SUNG CHANG
6)	(DATE)	CHARLES C. GARRETSON
7)	(DATE)	GREGORY E. MENK
8)	(DATE)	STAN D. TSAI