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Form PTO-1595 (Rev. 08/05) DMB No. 0951-0027 (exp. 8/30/2008)	U.S. DEPARTMENT OF COMMERC United States Petent and Trademark Office			
RECORDATION FORM COVER SHEET				
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(les): Deta	2. Name and address of receiving party(les)			
Maosheng Zhao Data Juan Carlos Rocha-Alvarez 01/22/2003 Jinna Shmurun 01/22/2003	Name: APPLIED MATERIALS, INC.			
Additional name(s) of conveying party(lee) effected? X Yes No	Internal Address: Street Address:			
3. Nature of conveyance/Execution Date(s):	7			
Execution Date(s): As noted.	3050 Bowers Avenue			
X Assignment Merger Change of Name				
Security Agreement Joint Research Agreement	City: Santa Clare			
Government Interest Assignment	State: California			
Executive Order 9424, Confirmatory License	Country: United States of America Ztp: 95054			
Other	Additional name(s) & address(es) Yes X No attached?			
4. Application or patent number(a):	This document is being filed together with a new application.			
A. Patent Application No.(s)	8. Patent No.(s)			
Application No. 12/372,312, filed 02/	17/2009			
Additional numbers attached?	Yes X No			
Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and palents involved:			
Name: B. Todd Patterson PATTERSON & SHERIDAN, LLP	7. Total fee (37 CFR 1.21(h) 8.3.41) \$ 40.00			
Internal Address:	Authorized to be charged by credit card			
Street Address: 3040 Post Oak Blvd, Suite 1500	X Authorized to be charged to deposit eccount			
	Enclosed			
	None required (government interest not affecting title			
City: Houston	6. Payment information			
State: TX Zip:77056	e. Credit Card Last 4 Numbers			
Phone Number: (713) 623-4844	Expiration Date			
Fax Number;(713) 623-4846	b. Deposit Account Number 50-1074			
Email Address: tpatterson@pattersonsheridan.com	Authorized User Name Robert W. Mulcahy			
Blantine: W Males y	February 17, 2009			
Robert W. Mulcahy, Rieg. No. 25,438 Name of Person Signing	Total number of pages including cover 4 sheet, attachments, and documents:			
raine or Person Signing				
I hereby certify that this paper (along with any paper referred to se being stisched or analysed) is being transmitted by (acaimile to the Patant and Transmitted Diffee, facetmile no. (571) 273-0140, on the data shows below.				
Defect: 2/18/09 Signeture: 2 (Kelin M. Tecket)				

7680C1 Recordation Cover Sheet DOC

RECORDATION FORM COVER SHEET (PTO-1595) (supplemental sheet)				
Additional Conveying Party(ies)/Execution Date(s) (1. Continued): Date				
Additional Assignees (2	2. Continued):	<u> </u>		
Assignee Name: 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 Numbers Additional Patent Numbers				
4A. Continued:	Additional numbers attached	4B, Continued:		

Docket No.: 007660.C01/DSM/LOW K/JW

Case No. AMAT 7660/DSM/LOWK/JW

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

- 1) Maosheng Zhao 3770 Flora Vista Ave., Apt. 904 Santa Clara, CA 95051
- Juan Carlos Rocha-Alvarez
 870 E. El Camino Real, Apt. 522
 Sunnyvale, CA 94087
- Inna Shmurun
 695 Beach Park Blvd.
 Foster City, CA 94404

- 4) Soovo Sen 884 Azure Street Sunnyvale, CA 94087
- 5) Mao D. Lim 3131 Peanut Brittle Drive San Jose, CA 95148
- Shankar Venkataraman3444 Notre Dame DriveSanta Clara, CA 95051
- 7) Ju-Hyung Lee 675 Brentwood Drive San Jose, CA 95129

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

METHOD AND APPARATUS FOR CLEANING A CVD CHAMBER

for which application for Letters Patent in the United States was 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 division, substitution, or continuation of said Application; and (d) in and to each and every reissue or extension of any of said Patents.

1 of 2

PATENT REEL: 022280 FRAME: 0182

- 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.

1)	1/22 2003	Maosheng Zhao
2)	<u>kn 22nd, 2003</u>	Juan Carlos Rocha-Alvarez
3)	01/22, 2003	Inna Shmurun
4)	$\frac{01/2.2}{}$, 2003	Soovo Sen
5)	01/23 2003	Mao D. Lim
6)	1 2 H, 2003	Shankar Venkataraman
7)	01/23 2003	Ju-Hyung Lee

RECORDED: 02/18/2009