OMB No. 0651-0027 (exp. 6/30/2005) Tab settings ⇒ ⇒ ▼ 102542159 To the Honorable Commissioner of Patents and Trademarks: Please record trie attacked original documents or copy thereof. 1. Name of conveying party(ies): 1. Michael Barnes 8-13-03 7. Michael D. Armacost 8-14-03 2. John Holland 7-31-03 8. Neil E. Hanson 7-24-03 3. Hongqing Shan 8-04-03 9. Diana Xiaobing Ma 7-34-03 4. Bryan Y. Pu 1-30-03 10. Ashok K. Sinha 8-01-03 5. Mohit Jain 8-01-03 11. Dan Maydan 8-19-03 6. Zhifeng Sui 7-29-03 Additional name(s) of conveying party(ies) attached? Yes No 3. Nature of conveyance: Assignment	Form PTO-1595	
To the Honorable Commissioner of Patents and Trademarks: Please record tire enterwised original documents or copy thereof. 1. Name of conveying party(ies): 1. Michael Barnes 8 -13 - 03 7. Michael D. Armacost 8 - 14 - 05 2. John Holland 7 - 31 - 03 8. Nall E. Hanson 7 - 34 - 03 3. Hongrigh Shine * - 04 - 03 9. Diana Xiaobing Man 7 - 34 - 03 4. Bryan Y. Pu 1 - 20 - 03 11. Dan Maydan 9 - 10 - 03 5. Mohrit Lain 8 - 21 - 03 11. Dan Maydan 9 - 10 - 03 6. Zinfrieng Sti 7 - 24 - 03 Additional name(s) of conveying party(se) attached? 12 Yes 12 No 3. Nature of conveyance: 12 Assignment 13 Merger 13 Security Agreement 14 Change of Name 14 Application number(s) or patent number(s): 15 If this document is being filed together with a new application, the execution date of the application is: 8 - 21 - 1 A. Patent Application No.(s) 15 Name and address of party to whom correspondence concerning document should be mailed: Name: Applied Materials, Inc. 16 Total number of applications and patents involved: 17 Total fee (37 CFR 3.41)	OMB No. 0651-0027 (exp. 6/30/2005)	U.S. Patent and Trademark Office
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Street Address: 3050 Bowers Avenue Street Address: 3050 Bowers Avenue	1. Michael Barnes 8-13-03 7. Michael D. Armacost 8-14-0 2. John Holland 7-31-03 8. Neil E. Hanson 7-29-03 3. Hongqing Shan 8-06-03 9. Diana Xiaobing Ma 7-30-0 4. Bryan Y. Pu 7-30-03 10. Ashok K. Sinha 8-07-0 5. Mohit Jain 8-01-03 11. Dan Maydan 8-19-03 6. Zhifeng Sui 7-29-03	Name: Applied Materials, Inc.
Security Agreement Change of Name Other City: Santa Clara State: CA Zip: 95054 Additional name(s) & address(es) attached? Additional name(s) & additional name(s) & additional name(s) & additiona	3. Nature of conveyance:	100
City: Santa Clara State: CA Zip: 95054 Execution Date: SEE ABOVE Additional name(s) & address(es) attached? Yes Address(es) attached? Yes Address(es) attached? Yes Additional name(s) & address(es) attached? Yes Address		Street Address: 3050 Bowers Avenue
Additional name(s) & address(es) attached? Address(es) a	00000	
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: 8-21-4 A. Patent Application No.(s) B. Patent No.(s) 3. Name and address of party to whom correspondence concerning document should be mailed: Name: Applied Materials, Inc. Internal Address: Patent Department, M/S 2061 3. LIBELER 0000142 501074 1844543 City: Santa Clara State: CA Zip: 95052 DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is time application as is page if paying by deposit account and patents involved: (Attach duplicate copy of this page if paying by deposit account)		City: Santa Clara State: CA Zip: 95054
If this document is being filed together with a new application, the execution date of the application is: 8-21-4 A. Patent Application No.(s) B. Patent No.(s) B. Patent No.(s) B. Patent No.(s) Additional numbers attached? Yes No S. Name and address of party to whom correspondence concerning document should be mailed: Name: Applied Materials, Inc. Internal Address: Patent Department, M/S 2061 Material Patent Department, M/S 2061 Authorized to be charged to deposit account Street Address: P.O. Box 450A 50-1074 City: Santa Clara State: CA Zip: 95052 DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is thue and corpoct-and any attached copy	Execution Date: SEE ABOVE	Additional name(s) & address(es) attached? 📮 Yes 🔽 No
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Concerning document should be mailed: Name: Applied Materials, Inc. Internal Address: Patent Department, M/S 2061 M03 LHELLER 0000142 501074 10445943 Street Address: P.O. Box 450A Street Address: P.O. Box 450A City: Santa Clara State: CA Zip: 95052 DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is thue and correct and any attached copy	A. ratent Application No.(8)	B. Patent No.(s)
Name: Applied Materials, Inc. Internal Address: Patent Department, M/S 2061 ***Satisfier Coestive Solo74 1646943* The Authorized to be charged to deposit account account solony and supplied to the charged to deposit account solony account number: **Street Address: P.O. Box 450A* Street Address: P.O. Box 450A* **City: Santa Clara State: CA Zip: 95052* **Do Not Use This Space** 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and connect and any attached copy and solony are connect and any attached copy.	10/646943 Additional numbers at	ttached? 📮 Yes 🔽 No
Internal Address: Patent Department, M/S 2061 MANUAL PROPERTY CORRECTION OF THE SPACE Internal Address: Patent Department, M/S 2061 Authorized to be charged to deposit account 8. Deposit account number: Street Address: P.O. Box 450A 50-1074 (Attach duplicate copy of this page if paying by deposit account) DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and connect and any attached copy	10/646943 Additional numbers at 5. Name and address of party to whom correspondence	ttached? 📮 Yes 🔼 No
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City: Santa Clara State: CA Zip: 95052 Continuous State Copy of this page if paying by deposit account) DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy	Additional numbers at 5. Name and address of party to whom correspondence concerning document should be mailed: Name: Applied Materials, Inc. Internal Address: Patent Department, M/S 2061	tached? Yes No 6. Total number of applications and patents involved: 7. Total fee (37 CFR 3.41)
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Robert W. Mulcahy, Reg. No. 25,436 Name of Person Signing Signature Date	Additional numbers at 5. Name and address of party to whom correspondence concerning document should be mailed: Name: Applied Materials, Inc. Internal Address: Patent Department, M/S 2061 303 LNELLER 0000142 501074 1044543 40.00 M Street Address: P.O. Box 450A City: Santa Clara State: CA Zip: 95052	6. Total number of applications and patents involved: 7. Total fee (37 CFR 3.41)
Total number of pages including cover sheet, attachments, and documents:	Additional numbers at 5. Name and address of party to whom correspondence concerning document should be mailed: Name: Applied Materials, Inc. Internal Address: Patent Department, M/S 2061 1003 LNFILER 0000142 501074 1666943 1014 1016 Ma Street Address: P.O. Box 450A City: Santa Clara State: CA Zip: 95052 DO NOT USE 9. Statement and signature. To the best of my knowledge and belief, the foregoing is a true copy of the original document. Robert W. Mulcahy, Reg. No. 25,436	6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41)

Docket No. 006726 USA/ETCH/CONE/JB

PATENT

REEL: 014451 FRAME: 0153

ASSIGNMENT FOR APPLICATION FOR PATENT

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Names and Addresses of Inventors:

- 1) Michael Barnes 12215 Santa Teresa Drive San Ramon, CA 94583 U.S.A.
- 3) Hongqing Shan 1369 South Stelling Road Cupertino, California 95014 U.S.A.
- 5) Mohit Jain 4754 San Tropico Court San Jose, CA 95135 U.S.A.
- 7) Michael D. Armacost 6577 Springpath Lane San Jose, CA 95120 U.S.A.
- 9) Diana Xiaobing Ma 19600 Kilt Court Saratoga, CA 95070 U.S.A.
- 11) Dan Maydan 12000 Murietta Lane Los Altos Hills, CA 94022 U.S.A.

- 2) John Holland 1565 Calaveras Avenue San Jose, CA 95126 U.S.A.
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- 6) Zhifeng Sui 41706 Covington Drive Fremont, California 94539 U.S.A.
- 8) Neil E. Hanson 1610 Nantucket Circle, #117 Santa Clara, CA 95014 U.S.A.
- 10) Ashok K. Sinha 4176 Hubbartt Drive Palo Alto, CA 94306 U.S.A.

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

"MONITORING DIMENSIONS OF FEATURES AT DIFFERENT LOCATIONS IN THE PROCESSING OF SUBSTRATES"

[X]	which is attached hereto
[]	for which application for Letters Patent in the United States was filed on, under Serial No, 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

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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 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 filling and prosecuting substitute, divisional, continuing or additional applications covering said Invention; (d) for filling 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)	8(13/07	mell
	Date	Michael Barnes
2)	7/31/03	ALDUS
	Date ´	John Holland
3)		
0)	Date	Hongqing Shan

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4)	7/30/03 Date	Beyan M. Bryan Y. Pu
5)	Date	Mohit Jain
6)	7/29/63 Date,	Zhifeng Suiz
7)	8/14/03 Date	Michael D. Armacost
8)	7/29(0) Date	Neil E. Hanson
9)	$\frac{7/30/03}{\text{Date}} =$	Diana Xiaobing Ma
10)	8/7/03	arlist k Swh
11)	Date () 19/03 Date	Ashok K. Sinha Dan Maydan Dan Maydan

ASSIGNMENT FOR APPLICATION FOR PATENT

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Names and Addresses of Inventors:

- 1) Michael Barnes 12215 Santa Teresa Drive San Ramon, CA 94583 U.S.A.
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[X]	which is attached hereto		

[] for which application for Letters Patent in the United States was filed on _____, under Serial No. _____, executed on even date herewith; and

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1)		
Ī	Date	Michael Barnes
2)		
	Date	John Holland //
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3)	0/0/	- 18 30
ı	Date '	Hongqing Shan

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4)		
-,	Date	Bryan Y. Pu
5)		
ŕ	Date	Mohit Jain
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,	Date	Zhifeng Sui
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- /	Date	Michael D. Armacost
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11)		
,	Date	Dan Maydan

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4)		
	Date	Bryan Y. Pu
5)	08/01/03	Mohit Kumar Fain
	Date	Mohit Jain
6)		
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	Date	Michael D. Aimacost
8)		
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	Date	Diana Xiaobing Ma
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	Date	Ashok K. Sinha
11)		
	Date	Dan Maydan

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RECORDED: 08/21/2003