

## PATENT ASSIGNMENT

Electronic Version v1.1

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SUBMISSION TYPE:	NEW ASSIGNMENT														
NATURE OF CONVEYANCE:	ASSIGNMENT														
CONVEYING PARTY DATA															
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>CHIEN-TEH KAO</td><td>12/04/2009</td></tr><tr><td>XINLIANG LU</td><td>12/07/2009</td></tr><tr><td>ZHENBIN GE</td><td>12/04/2009</td></tr><tr><td>MEI CHANG</td><td>12/07/2009</td></tr><tr><td>HOIMAN RAYMOND HUNG</td><td>12/08/2009</td></tr><tr><td>NITIN INGLE</td><td>12/04/2009</td></tr></tbody></table>	Name	Execution Date	CHIEN-TEH KAO	12/04/2009	XINLIANG LU	12/07/2009	ZHENBIN GE	12/04/2009	MEI CHANG	12/07/2009	HOIMAN RAYMOND HUNG	12/08/2009	NITIN INGLE	12/04/2009	
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HOIMAN RAYMOND HUNG	12/08/2009														
NITIN INGLE	12/04/2009														
RECEIVING PARTY DATA															
Name:	APPLIED MATERIALS, INC.														
Street Address:	P.O. BOX 450A														
City:	SANTA CLARA														
State/Country:	CALIFORNIA														
Postal Code:	95052														
PROPERTY NUMBERS Total: 1															
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>12620806</td></tr></tbody></table>	Property Type	Number	Application Number:	12620806											
Property Type	Number														
Application Number:	12620806														
CORRESPONDENCE DATA															
Fax Number: (408)986-3090															
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>															
Phone: 713-623-4844															
Email: jo_ann_cottrell@amat.com															
Correspondent Name: PATTERSON & SHERIDAN, LLP - - APPM/TX															
Address Line 1: 3040 POST OAK BOULEVARD, SUITE 1500															
Address Line 4: HOUSTON, TEXAS 77056															
ATTORNEY DOCKET NUMBER:	13047/MPD/L/B														
NAME OF SUBMITTER:	JO ANN COTTRELL														

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PATENT  
REEL: 023812 FRAME: 0538

**Total Attachments: 6**

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**ASSIGNMENT FOR APPLICATION FOR PATENT****WHEREAS:**

Names and Addresses of Inventors:

1)	Chien-Teh Kao 715 Starbush Drive Sunnyvale, California 94086	2)	Xinliang Lu 45 Japala Court Fremont, California 94539
3)	Zhenbin Ge 2463 Ottawa Way San Jose, California 95130	4)	Mei Chang 12881 Corte de Arguello Saratoga, California 95070
5)	Hoiman Raymond Hung 7540 Heatherwood Drive Cupertino, California 95014	6)	Nitin Ingle 633 Hudson Drive Santa Clara, California 95051

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

**INTEGRATION SEQUENCES WITH TOP SURFACE PROFILE MODIFICATION**

for which application for Letters Patent in the United States was filed on November 18, 2009, under Serial No. 12/620,806, 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.



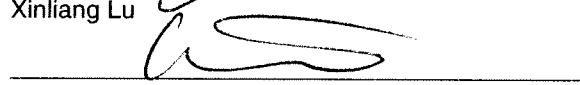

2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall include prompt 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 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)	<u>12-04-2009</u> (DATE)	 Chien-Teh Kao
2)	<u>12-07-09</u> (DATE)	 Xinliang Lu
3)	<u>12/4/2009</u> (DATE)	 Zhenbin Ge
4)	<u>12/7/2009</u> (DATE)	 Mei Chang
5)	_____ (DATE)	_____
6)	_____ (DATE)	_____

Hoiman Raymond Hung

Nitin Ingle

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5)	<u>12-08-09</u> (DATE)		Hoimian Raymond Hung
6)	_____ (DATE)	_____	Nitin Ingle

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4)	_____ (DATE)	_____
		Mei Chang
5)	_____ (DATE)	_____
		Hoiman Raymond Hung
6)	<u>04 Dec 09</u> (DATE)	<u></u>
		Nith Ingle