

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT																
NATURE OF CONVEYANCE:	ASSIGNMENT																
CONVEYING PARTY DATA																	
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Kyeong-Tae Lee</td> <td>04/24/2006</td> </tr> <tr> <td>Jinhan Choi</td> <td>03/06/2007</td> </tr> <tr> <td>Bi Jang</td> <td>04/26/2006</td> </tr> <tr> <td>Meihua Shen</td> <td>04/25/2006</td> </tr> <tr> <td>Thorsten B. Lill</td> <td>04/25/2006</td> </tr> <tr> <td>Shashank C. Deshmukh</td> <td>04/24/2006</td> </tr> <tr> <td>Jae Bum Yu</td> <td>04/26/2006</td> </tr> </tbody> </table>		Name	Execution Date	Kyeong-Tae Lee	04/24/2006	Jinhan Choi	03/06/2007	Bi Jang	04/26/2006	Meihua Shen	04/25/2006	Thorsten B. Lill	04/25/2006	Shashank C. Deshmukh	04/24/2006	Jae Bum Yu	04/26/2006
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Jae Bum Yu	04/26/2006																
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																	
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>11445709</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	11445709												
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CORRESPONDENCE DATA																	
Fax Number:	(408)986-3090																
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>																	
Email:	sheri_robinson@amat.com																
Correspondent Name:	Applied Materials, Inc.																
Address Line 1:	P.O. Box 450A																
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Address Line 4:	Santa Clara, CALIFORNIA 95050																
ATTORNEY DOCKET NUMBER:	10812 USA																

CH \$40.00 11445709

NAME OF SUBMITTER:

Sheri Griffin

Total Attachments: 11

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ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

1)	Kyeong-Tae LEE 619 Bolton Court, #6 San Jose, California 95129 United States of America	2)	Jinhan CHOI 489 Northlake Drive, #107 San Jose, California 95117 United States of America
3)	Bi JANG 115 Dong-403 Ho LG APT, SHingbong-Don Yongin-City, Kyunggi-do South Korea 448-533	4)	Shashank C. DESHMUKH 2618 Pettigrew Drive San Jose, California 95148 United States of America
5)	Meihua SHEN 694 Perry Common Fremont, California 94539 United States of America	6)	Thorsten B. LILL 88 Muir Avenue Santa Clara, California 95051 United States of America
7)	Jae Bum YU Byucksan e-village 103-701, Mangpo-Dong, Youngtone-Gu, Suwon City, Kyeong-Ki province South Korea		

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

Title

Process for Etching Tungsten Silicide Overlying Polysilicon Particularly in a Flash Memory

for which application for Letters Patent in the United States was filed on June 2, 2006

under Serial No. 11/445,709 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 the Application), and the invention disclosed therein (hereinafter referred to as the 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 the 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:



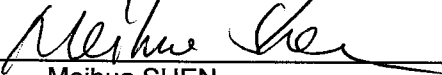

1. Said Assignors hereby sell, assign, transfer and convey to Assignee the full and exclusive right, title and interest (a) in and to said Application and said Invention; (b) in and to all rights to apply for patents on said Invention in any and all countries pursuant to the International Convention 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 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) 4-24-, 2006 
Kyeong-Tae LEE
- 2) _____, 2006 _____
Jinhan CHOI
- 3) _____, 2006 _____
Bi JANG
- 4) 4/24/06, 2006 
Shashank C. DESHMUKH
- 5) 4/25/06, 2006 
Meihua SHEN
- 6) 4/25/06, 2006 
Thorsten B. LILL
- 7) _____, 2006 _____
Jae Bum YU

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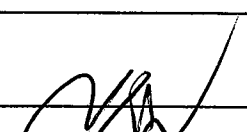
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2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed in any and all countries and groups of countries. Such 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, 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.

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Shashank C. DESHMUKH
- 5) _____, 2006 _____
Meihua SHEN
- 6) _____, 2006 _____
Thorsten B. LILL
- 7) _____, 2006 _____
Jae Bum YU

EMPLOYEE AGREEMENT

#85670

NAME Jinhan Choi DATE 3/6/07

DEPARTMENT Silicon etch



In consideration of my employment and the compensation paid to me for my services during the term of my employment with Applied Materials, Inc. or its subsidiaries and affiliates (collectively "APPLIED"), I (Employee) agree with APPLIED as follows:

1. CONFIDENTIAL INFORMATION

A. Confidential information shall include, without limitation, any and all information concerning (i) processes, formulas, trade secrets, innovations, inventions, discoveries, improvements, research or development and test results, specifications, data, and knowhow; (ii) marketing plans, business plans, strategies, forecasts, unpublished financial information, budgets, projections, product plans and pricing; (iii) personnel information, including organizational structure, salary and qualifications of other employees; (iv) customer and supplier information, including identities, product sales and purchase history or forecasts and agreements; and (v) any other information which is not known to the public. Except as may be authorized by APPLIED in writing, I shall hold all such confidential information in trust and confidence for APPLIED, and agree not to disclose such information to anyone outside of APPLIED or use such information for the benefit of anyone other than APPLIED, either during or after my employment with APPLIED. I further agree to deliver promptly to APPLIED on termination of my employment or at any time it may so request, all memoranda, notes, notebooks, records, reports, manuals, drawings, blueprints and any other documents or things belonging to APPLIED, including all copies of such materials, which I may then possess or have in my custody or under my control. The rights and obligations of this paragraph shall survive and continue after any expiration or termination of this Agreement or of my employment with APPLIED so long as the information specified herein shall remain confidential.

B. I agree that I will not use or disclose any confidential information belonging to my former employer(s) during my employment with APPLIED, and I agree that I will not bring onto the premises of APPLIED any documents, records, files or other property belonging to my former employer(s).

C. I understand that APPLIED has received and in the future will receive from third parties their confidential information subject to a duty by APPLIED to maintain the confidentiality of such information. I agree that I owe APPLIED and such third parties a duty to hold all such confidential or proprietary information in confidence and not to disclose it to others or to use it for the benefit of anyone other than for APPLIED or such third party.

2. INVENTIONS. PATENTS. TRADE SECRETS AND COPYRIGHTS

A. I agree that all inventions, copyrightable works and confidential information (including but not limited to new contributions, improvements, ideas or discoveries, whether patentable or not and computer source code and documentation) produced, conceived, made or first actually reduced to practice by me solely or jointly with others during the period of my employment with APPLIED (the foregoing are subsequently referred to as Creative Works), are hereby assigned to Applied Materials, Inc. and shall be the exclusive property of Applied Materials, Inc. I agree that I will:

(i) promptly disclose in detail all Creative Works to APPLIED;

(ii) at the request of APPLIED, sign and provide any and all documents, testimony or any other assistance that is reasonably necessary to assign, file, register or otherwise secure to Applied Materials, Inc. exclusive rights to Creative Works in the United States and all other countries;

(iii) accept the wages provided for my services as my sole compensation for the assignment to Applied Materials, Inc. of all rights to Creative Works and other rights granted to Applied Materials, Inc. under this Agreement. In case any invention is described in a patent application or is disclosed to third parties by me within one (1) year after terminating my employment with APPLIED, it is to be presumed that the invention was conceived or made during the period of my employment for APPLIED, and the invention will be assigned to Applied Materials, Inc. as provided by this Agreement, provided it relates to my work with APPLIED. Any Creative Works made by me prior to any association by me with APPLIED and without the confidential information and/or resources of APPLIED shall not be subject to the assignment provision of this Agreement;

(iv) waive any and all "moral rights" which I may have in such Creative Works, and to assign all such "moral rights" to Applied Materials, Inc. "Moral Rights" mean any rights to claim authorship of a Creative Work, to object to or prevent the modification of any Creative Work, or to withdraw from circulation or control the publication or distribution of any Creative Work, and any similar right, existing under judicial or statutory law of any country in the world, or under any treaty, regardless of whether or not such right is denominated or generally referred to as a "moral right."

B. (Applicable only to employees based in California.) I understand that the provisions of this agreement do not apply to any invention which qualifies fully to be excluded pursuant to the provisions of California Labor Code Section 2870 (printed on the last page of this Agreement). I will advise APPLIED promptly in writing of any inventions I believe meet such criteria.

3. NON-SOLICITATION OF EMPLOYEES

During my employment with APPLIED and for a period of one (1) year after the termination of my employment with APPLIED for any reason, I agree that I shall not either directly or indirectly solicit, induce, recruit or encourage any of APPLIED'S employees to leave their employment or take away such employees, or attempt to solicit, induce, recruit, encourage or take away employees of APPLIED, either for myself or for any other person or entity.

4. CONFLICT OF INTEREST

I agree that during my employment with Applied, I will not engage in outside business activities, consulting services, or outside employment that competes with, or may have the appearance of competing with the interests of APPLIED, including but not limited to being employed by, investing in (except for publicly owned companies, in which I may own up to \$25,000 in market value of shares, or 2% of outstanding shares, whichever is greater, unless the Board approves a larger amount), or providing time, materials or other services to any entity that buys from or sells to or competes with APPLIED, and/or engaging in activities that utilize APPLIED's equipment, physical plant, and/or confidential information.

Currently, I am engaged in the following outside business activities, consulting services or outside employment:

I agree that I will promptly disclose to APPLIED in detail, any change in my outside commercial or employment activities.

5. AT-WILL EMPLOYMENT STATUS

I understand and acknowledge that my employment at APPLIED is "at will" which means that there is no agreement, express or implied, between me and APPLIED for any definite period of employment. APPLIED and I each have a right to terminate my employment at any time, with or without cause and with or without advance notice.

6. ARBITRATION

APPLIED and I agree that, to the fullest extent allowed by law, and except as set forth in the last paragraph of this section, any controversy or claim arising out of or relating to my employment or the termination of my employment, whether asserted by APPLIED against me or by me against APPLIED or any of its agents or employees, shall be finally settled by binding arbitration, employing a neutral arbitrator, and administered by the American Arbitration Association ("AAA") under its National Rules for the Resolution of Employment Disputes. Such claims shall include, but are not limited to, any claims under (as amended) Title VII of the Civil Rights Act of 1964, the Civil Rights Act of 1866, the Civil Rights Act of 1991, the Age Discrimination in Employment Act, the Rehabilitation Act of 1973, the Americans with Disabilities Act, the Family and Medical Leave Act of 1993, and any other federal, state or local statute, regulation or common law doctrine, including contract or tort, regarding employment discrimination, the terms and conditions of employment or termination of employment. Prior to invoking arbitration, I am encouraged but not required to exhaust all remedies as set forth in APPLIED's Open Door Policy, Human Resources Policy 6-01. Applied and I are each waiving our rights to trial by jury, in exchange for arbitration.

The arbitration will be conducted in the city with an AAA office nearest to where I am or was last employed. Judgment upon any award rendered in an arbitration proceeding may be entered in any court having jurisdiction of the matter. Any controversy or claim subject to arbitration by either me or APPLIED shall be deemed waived, and shall be forever barred, if arbitration is not initiated within one (1) year after the date the controversy or claim first arose, or if statutory claims are asserted, within the time limit established by the statute of limitations applicable to those statutory claims. To the extent statutory claims are asserted, the parties will have the same remedies in arbitration as to those statutory claims as they would otherwise have had if such a claim had been filed in a court of law, including, where authorized by statute, compensatory and punitive damages, declaratory relief, permanent injunctive relief, and attorneys' fees. APPLIED will pay all costs of the AAA to administer the arbitration and the costs for the arbitrator less those amounts I would otherwise be required to pay were my claims litigated in a court of law.


In any arbitration commenced pursuant to this agreement, depositions may be taken and discovery obtained as provided in the Federal Rules of Civil Procedure, subject to limitation by the arbitrator to a reasonable amount necessary for both parties to be able to present their claims and defenses. Any award by the arbitrator(s) shall be accompanied by a statement of the factual and legal bases for the award.

This agreement to arbitrate shall not apply to claims for workers' compensation or unemployment compensation or to claims for provisional injunctive relief.

EMPLOYEE AGREEMENT

7. GENERAL PROVISIONS

- A. This Agreement will be governed by the law of the state in which I am based at the time that any issue, controversy or claim arises under this Agreement.
- B. If one or more of the provisions in this Agreement are deemed void by law, then the remaining provisions will continue in full force and effect.
- C. I agree that all my obligations under this Agreement shall be binding upon my heirs, executors, administrators, legal representatives and assigns.
- D. I acknowledge that this is the sole Agreement between myself and APPLIED with respect to the subject matters hereof, that I have not relied upon any representation or promise not expressly stated herein, and that any modifications to this Agreement can only be made in writing signed by me and an appropriate Officer of Applied Materials, Inc., except that section 6 may be modified by APPLIED by formal revisions to its Arbitration Policy that are necessary to comply with legal requirements for the enforceability of employment arbitration agreements.



 EMPLOYEE SIGNATURE

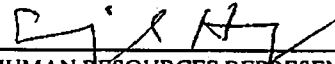
Jinhan Choi

 PRINT

15050 Springwood Dr.

 HOME ADDRESS
 Frisco, TX 75035

 CITY, STATE, ZIP

APPLIED MATERIALS
 By: 

 HUMAN RESOURCES REPRESENTATIVE

SECTION 2870, CHAPTER 2, ARTICLE 3.5 OF THE CALIFORNIA LABOR CODE reads as follows:

- (a) Any provision in an employment agreement which provides that an employee shall assign, or offer to assign, any of his or her rights in an invention to his or her employer shall not apply to an invention that the employee developed entirely on his or her own time without using the employer's equipment, supplies, facilities, or trade secret information except for those inventions that either:
 - (1) Relate at the time of conception or reduction to practice of the invention to the employer's business, or actual or demonstrably anticipated research or development of the employer; or
 - (2) Result from any work performed by the employee for the employer.
- (b) To the extent a provision in an employment agreement purports to require an employee to assign an invention otherwise excluded from being required to be assigned under subdivision (a), the provision is against the public policy of this state and is unenforceable.