

PATENT ASSIGNMENT

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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>BENCHERKI MEBARKI</td> <td>01/07/2010</td> </tr> <tr> <td>LI YAN MIAO</td> <td>01/07/2010</td> </tr> <tr> <td>CHRISTOPHER DENNIS BENCHER</td> <td>01/12/2010</td> </tr> <tr> <td>JEN SHU</td> <td>01/08/2010</td> </tr> </tbody> </table>		Name	Execution Date	BENCHERKI MEBARKI	01/07/2010	LI YAN MIAO	01/07/2010	CHRISTOPHER DENNIS BENCHER	01/12/2010	JEN SHU	01/08/2010
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LI YAN MIAO	01/07/2010										
CHRISTOPHER DENNIS BENCHER	01/12/2010										
JEN SHU	01/08/2010										
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>12603371</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12603371						
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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>											
Phone:	650-326-2400										
Email:	jo_ann_cottrell@amat.com										
Correspondent Name:	TOWNSEND AND TOWNSEND AND CREW LLP										
Address Line 1:	TWO EMBARCADERO CENTER										
Address Line 2:	EIGHTH FLOOR										
Address Line 4:	SAN FRANCISCO, CALIFORNIA 94111-3834										
ATTORNEY DOCKET NUMBER:	13534/MTCG/PINTGR										
NAME OF SUBMITTER:	JO ANN COTTRELL										
Total Attachments: 4											

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**PATENT
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source=13534 US-ASG 2010-01-19#page4.tif

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses
of Inventors:

1)	Bencherki Mebarki 4515 Carlyle Court, #3305 Santa Clara, CA 95054 United States	2)	Li Yan Miao 430 Brussels Street San Francisco, CA 94134 United States
3)	Christopher Dennis Bencher 1251 Hazlett Court San Jose, CA 95131 United States	4)	Jen Shu 19393 De Havilland Drive Saratoga, CA 95070 United States

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

SELF-ALIGNED MULTI-PATTERNING FOR ADVANCED CRITICAL DIMENSION CONTACTS

for which application for Letters Patent in the United States was filed on **October 21, 2009**, under Application No. **12/603,371**, 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.

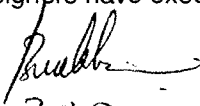
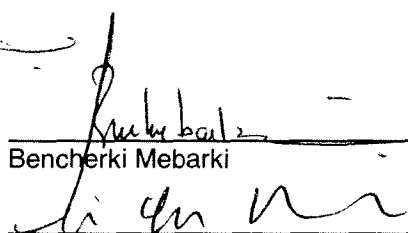

2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall include prompt 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)	<u>01-07-10</u>	<u>2010</u>		<u>Bencherki Mebariki</u>
2)	<u>1-7-2009</u>	<u>2010</u>		<u>Li Yan Miao</u>
3)	<u>1-12-10</u>	<u>2009</u>		<u>Christopher Dennis Bencher</u>
4)	<u> </u>	<u>2009</u>	<u> </u>	<u>Jen Shu</u>

62259768 v1

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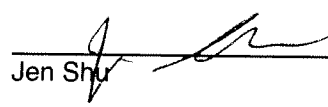
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1) _____, 2009 _____
Bencherki Mebarki

2) _____, 2009 _____
Li Yan Miao

3) _____, 2009 _____
Christopher Dennis Bencher

4) 1/8 _____, ~~2009~~
2010 _____
b Jen Shu 

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