

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>Judy Wang</td> <td>12/05/2005</td> </tr> <tr> <td>Shing-Li Sung</td> <td>11/11/2005</td> </tr> <tr> <td>Shawming Ma</td> <td>11/11/2005</td> </tr> <tr> <td>Bryan Pu</td> <td>11/14/2005</td> </tr> </tbody> </table>		Name	Execution Date	Judy Wang	12/05/2005	Shing-Li Sung	11/11/2005	Shawming Ma	11/11/2005	Bryan Pu	11/14/2005
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RECEIVING PARTY DATA											
Name:	APPLIED MATERIALS, INC.										
Street Address:	3050 Bowers Avenue										
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>11244422</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	11244422						
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Application Number:	11244422										
CORRESPONDENCE DATA											
Fax Number:	(408)986-3090										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	408-986-3139										
Email:	emma_koh@contractor.amat.com										
Correspondent Name:	Applied Materials, Inc.										
Address Line 1:	P.O. Box 450A										
Address Line 2:	ms/2061										
Address Line 4:	Santa Clara,, CALIFORNIA 95052										
ATTORNEY DOCKET NUMBER:	10477										
NAME OF SUBMITTER:	Emma Koh										

CH \$40.00 11244422

Total Attachments: 2

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ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

1)	Judy WANG 19327 Sakura Way Cupertino, California 95014 United States of America	2)	Shing-Li SUNG #121 Alley 18, Lane 85 Fu-Chun Street Hsin-Chu, Taiwan
3)	Shawming MA 244 Gabilan Avenue Sunnyvale, California 94086 United States of America	4)	Bryan PU 3064 Rosato Court San Jose, California 95135 United States of America

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

Title

Process to Open Carbon Based Hardmask

for which application for Letters Patent in the United States was filed on October 5, 2005,

under Serial No. 11/244,422, 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) 12/5/05, 2005 Judy Wang
Judy WANG
- 2) 11/10, 2005 Shing-Li Sung
Shing-Li SUNG
- 3) 11/11, 2005 Shawming Ma
Shawming MA
- 4) 11-14, 2005 Bryan Pu
Bryan PU