

## 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>Martin Jay SEAMONS</td><td>09/30/2011</td></tr><tr><td>Sudha RATHI</td><td>10/03/2011</td></tr><tr><td>Kwangduk Douglas LEE</td><td>10/03/2011</td></tr><tr><td>Deenesh PADHI</td><td>09/30/2011</td></tr><tr><td>Bok Hoen KIM</td><td>09/30/2011</td></tr><tr><td>Chiu CHAN</td><td>10/03/2011</td></tr></tbody></table>		Name	Execution Date	Martin Jay SEAMONS	09/30/2011	Sudha RATHI	10/03/2011	Kwangduk Douglas LEE	10/03/2011	Deenesh PADHI	09/30/2011	Bok Hoen KIM	09/30/2011	Chiu CHAN	10/03/2011
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<table border="1"><tr><td>Name:</td><td>APPLIED MATERIALS, INC.</td></tr><tr><td>Street Address:</td><td>3050 Bowers Avenue</td></tr><tr><td>City:</td><td>Santa Clara</td></tr><tr><td>State/Country:</td><td>CALIFORNIA</td></tr><tr><td>Postal Code:</td><td>95054</td></tr></table>		Name:	APPLIED MATERIALS, INC.	Street Address:	3050 Bowers Avenue	City:	Santa Clara	State/Country:	CALIFORNIA	Postal Code:	95054				
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Application Number:	13249794														
CORRESPONDENCE DATA															
Fax Number:	(713)623-4846														
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ATTORNEY DOCKET NUMBER:	APPM/015414/NHOUSTON														

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PATENT  
REEL: 027110 FRAME: 0922

OP \$40.00 13249794

NAME OF SUBMITTER:

Keith M. Tackett

Total Attachments: 2

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**ASSIGNMENT FOR APPLICATION FOR PATENT**

WHEREAS:

Names and Addresses of Inventors:

1)	Martin Jay SEAMONS 6177 Purple Sage Court San Jose, California 95119	2)	Sudha RATHI 1431 Scollon Court San Jose, California 95132
3)	Kwangduk Douglas LEE 384 Gunter Lane Redwood City, California 94065	4)	Deenesh PADHI 1066 Reed Ave, #12 Sunnyvale, California 94086
5)	Bok Hoen KIM 1116 Sterling Gate Drive San Jose, California 95120	6)	Chiu CHAN 418 Chesapeake Avenue Foster City, California 94404

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

**ULTRA HIGH SELECTIVITY DOPED AMORPHOUS CARBON STRIPPABLE HARDMASK  
DEVELOPMENT AND INTEGRATION**

for which application for Letters Patent in the United States was filed on September 30, 2011, under Serial No. 13/249,794, 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>9/30/11</u> (DATE)	<u>Martin J. Seamons</u> Martin Jay SEAMONS
2)	<u>10-3-11</u> (DATE)	<u>Sudha Bathi</u> Sudha BATHI
3)	<u>10/3/11</u> (DATE)	<u>Kwangduk Douglas LEE</u> Kwangduk Douglas LEE
4)	<u>09/30/11</u> (DATE)	<u>Deenesh Padhi</u> Deenesh PADHI
5)	<u>9/30/11</u> (DATE)	<u>Bok Hoan LIM</u> Bok Hoan LIM
6)	<u>10/3/11</u> (DATE)	<u>Chiu CHAN</u> Chiu CHAN