

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

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>Sergey Lopatin</td><td>03/12/2007</td></tr><tr><td>John O. Dukovic</td><td>03/08/2007</td></tr><tr><td>David Eaglesham</td><td>03/27/2007</td></tr><tr><td>Nicolay Y. Kovarsky</td><td>03/09/2007</td></tr><tr><td>Robert Bachrach</td><td>03/08/2007</td></tr><tr><td>John Busch</td><td>03/14/2007</td></tr><tr><td>Charles Gay</td><td>03/12/2007</td></tr></tbody></table>		Name	Execution Date	Sergey Lopatin	03/12/2007	John O. Dukovic	03/08/2007	David Eaglesham	03/27/2007	Nicolay Y. Kovarsky	03/09/2007	Robert Bachrach	03/08/2007	John Busch	03/14/2007	Charles Gay	03/12/2007
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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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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																	
Address Line 2: Patent Counsel																	
Address Line 4: Santa Clara, CALIFORNIA 95052																	
ATTORNEY DOCKET NUMBER:	11230 USA																

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PATENT
REEL: 019568 FRAME: 0601

NAME OF SUBMITTER:

Sheri Griffin

Total Attachments: 9

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PATENT

REEL: 019568 FRAME: 0602

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

1)	SERGEY LOPATIN 4000 Kiely Blvd., #66 Santa Clara, CA 95051 <i>SL 151 Curry Ave Morgan Hill CA 95037</i>	2)	JOHN O. DUKOVIC 1525 Walnut Drive Palo Alto, CA 94303
3)	DAVID EAGLESHAM 2090 Hall Cir. Livermore, CA 94550	4)	NICOLAY Y. KOVARSKY 180 Locksunart Way, Apt. 13 Sunnyvale, CA 94087
5)	ROBERT BACHRACH 233 Chapin Lane Burlingame, CA 94010	6)	JOHN BUSCH 5035 Bel Estos Drive San Jose, CA 95124
7)	CHARLES GAY 1399 Southwind Circle Westlake Village, CA 91361	8)	

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

**PRECISION PRINTING ELECTROPLATING THROUGH PLATING MASK ON A
SOLAR CELL SUBSTRATE**

enclosed herewith or for which application for Letters Patent in the United States was filed on December 1, 2006, under conventional Serial No. 11/566,205, executed as shown below, 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 provisional and conventional Application filed and each and every Patent granted on any application which is a provisional and 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 conventional, 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>03/12/07</u>	(DATE)	<u>Sergey Lopatin</u> SERGEY LOPATIN
2)	<u>-</u>	(DATE)	<u>JOHN O. DUKOVIC</u> JOHN O. DUKOVIC
3)	<u> </u>	(DATE)	<u>DAVID EAGLESHAM</u> DAVID EAGLESHAM
4)	<u> </u>	(DATE)	<u>NICOLAY Y. KOVARSKY</u> NICOLAY Y. KOVARSKY

5) 3/8/2007 (DATE) Robert Z Bachrach
ROBERT BACHRACH
6) 14-Mar-07 (DATE) John Busch
JOHN BUSCH
7) 3-12-07 (DATE) Charles F. Gay
CHARLES GAY

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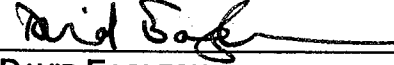
Invention; (b) in and to all rights to apply for patents on said Invention in any and all countries pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all Applications filed and any and all Patents granted on said Invention in any and all countries and groups of countries, including each and every provisional and conventional Application filed and each and every Patent granted on any application which is a provisional and conventional, division, substitution, or continuation of said Application; and (d) in and to each and every reissue or extension of any of said Patents.

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4)	<u>3/9/07</u> (DATE)	<u><i>Nicolay Y. Kovarsky</i></u> NICOLAY Y. KOVARSKY

5) _____ (DATE)

ROBERT BACHRACH

6) _____ (DATE)

JOHN BUSCH

7) _____ (DATE)

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