

PATENT ASSIGNMENT

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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>DANIEL J. HOFFMAN</td> <td>06/19/2008</td> </tr> <tr> <td>DOUGLAS A. BUCHBERGER, JR</td> <td>06/19/2008</td> </tr> <tr> <td>SEMYON L. KATS</td> <td>06/18/2008</td> </tr> <tr> <td>DAN KATZ</td> <td>06/18/2008</td> </tr> </tbody> </table>		Name	Execution Date	DANIEL J. HOFFMAN	06/19/2008	DOUGLAS A. BUCHBERGER, JR	06/19/2008	SEMYON L. KATS	06/18/2008	DAN KATZ	06/18/2008
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DAN KATZ	06/18/2008										
RECEIVING PARTY DATA											
Name:	APPLIED MATERIALS, INC.										
Street Address:	P.O. BOX 450A										
Internal Address:	LEGAL AFFAIRS DEPT.										
City:	SANTA CLARA										
State/Country:	CALIFORNIA										
Postal Code:	95052										
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>12144463</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12144463						
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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:	408-563-2726										
Email:	robert_mulcahy@contractor.amat.com										
Correspondent Name:	Robert W. Mulcahy										
Address Line 1:	P.O. BOX 450A										
Address Line 2:	LEGAL AFFAIRS DEPT.										
Address Line 4:	SANTA CLARA, CALIFORNIA 95052										
ATTORNEY DOCKET NUMBER:	AM12696/ETCH/MDD										
NAME OF SUBMITTER:	ROBERT W MULCAHY										

CH \$40.00 12144463

Total Attachments: 4

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ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

1)	DANIEL J. HOFFMAN 12343 Arroyo De Arguello Saratoga, CA 95070	2)	DOUGLAS A. BUCHBERGER, JR. 2076 Vintage Lane Livermore, CA 94550
3)	SEMYON L. KATS 810 Gonzalez Drive #5C San Francisco, CA 94132	4)	DAN KATZ 13920 Loquat Court Saratoga, CA 95070

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

CATHODE WITH INNER AND OUTER ELECTRODES AT DIFFERENT HEIGHTS

enclosed herewith or for which application for Letters Patent in the United States was filed on HEREWITH,
under Serial No. UNKNOWN, 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

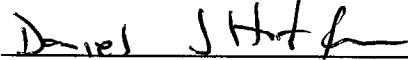
Patents.

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 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>6-19-8</u> (DATE)	<u></u> DANIEL J. HOFFMAN
2)	_____ (DATE)	_____ DOUGLAS A. BUCHBERGER, JR.
3)	_____ (DATE)	_____ SEMYON L. KATS
4)	_____ (DATE)	_____ DAN KATZ

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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.

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IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to said Assignee on the dates indicated below.

1)	_____ (DATE)	_____
		DANIEL J. HOFFMAN
2)	<u>6/19/08</u> (DATE)	_____
		DOUGLAS A. BUCHBERGER, JR.
3)	<u>6/18/08</u> (DATE)	_____
		SEMYON L. KATS
4)	<u>6/18/08</u> (DATE)	_____
		DAN KATZ