

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>STEPHEN MOFFATT</td><td>08/28/2008</td></tr><tr><td>ABHILASH J MAYUR</td><td>09/09/2008</td></tr><tr><td>SUNDAR RAMAMURTHY</td><td>08/27/2008</td></tr><tr><td>JOSEPH RANISH</td><td>08/26/2008</td></tr><tr><td>AARON HUNTER</td><td>08/27/2008</td></tr></tbody></table>	Name	Execution Date	STEPHEN MOFFATT	08/28/2008	ABHILASH J MAYUR	09/09/2008	SUNDAR RAMAMURTHY	08/27/2008	JOSEPH RANISH	08/26/2008	AARON HUNTER	08/27/2008	
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AARON HUNTER	08/27/2008												
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"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>12212214</td></tr></tbody></table>	Property Type	Number	Application Number:	12212214									
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Application Number:	12212214												
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:	AM13561-02/FEP/PJT												

500650031

PATENT
REEL: 021544 FRAME: 0206

CH \$40.00 12212214

NAME OF SUBMITTER:

ROBERT W MULCAHY

Total Attachments: 2

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ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

1)	STEPHEN MOFFATT Seafield Coach House Milbrook St. Lawrence Jersey, Channel Islands JE3 1LL United Kingdom	2)	ABHILASH J. MAYUR 17651 Olsen Place Salinas, California 93906
3)	SUNDAR RAMAMURTHY 5606 Snowflake Common Fremont, California 94538	4)	JOSEPH RANISH 3751 Woodleaf Court San Jose, California 95117
5)	AARON HUNTER 430 Emeline Avenue Santa Cruz, California 95060		

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

MANAGING THERMAL BUDGET IN ANNEALING OF SUBSTRATES

for which application for Letters Patent in the United States was filed on _____,
under Serial No. _____, 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.


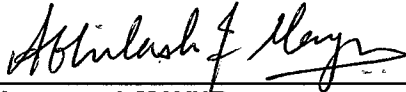
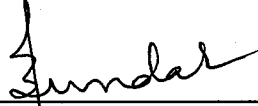
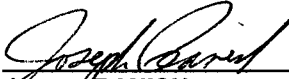

2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall include prompt 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>28 Aug 2008</u> (DATE)	 STEPHEN MOFFATT
2)	<u>9/9/08</u> (DATE)	 ABHILASH J. MAYUR
3)	<u>08/27/08</u> (DATE)	 SUNDAR RAMAMURTHY
4)	<u>9/26/2008</u> (DATE)	 JOSEPH RANISH
5)	<u>8/27/08</u> (DATE)	 AARON HUNTER