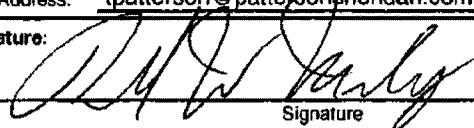


Form PTO-1595 (Rev. 01-09)
OMB No. 0651-0027 (exp. 02/28/2009)

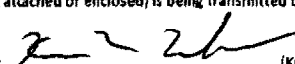
U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office

**RECORDATION FORM COVER SHEET
PATENTS ONLY**

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

<p>1. Name of conveying party(ies): Hiroji HANAWA (04/26/2011) and Kyawwin Jason MAUNG (04/26/2011)</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>2. Name and address of receiving party(ies) Name: <u>APPLIED MATERIALS, INC.</u></p> <p>Internal Address: _____ Street Address: _____ 3050 Bowers Avenue</p> <p>City: <u>Santa Clara</u> State: <u>California</u> Country: <u>United States of America</u> Zip: <u>95054</u></p> <p>Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>3. Nature of conveyance/Execution Date(s): Execution Date(s): <u>In parentheses after inventor name</u></p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Change of Name <input type="checkbox"/> Security Agreement <input type="checkbox"/> Joint Research Agreement <input type="checkbox"/> Government Interest Assignment <input type="checkbox"/> Executive Order 9424, Confirmatory License <input type="checkbox"/> Other _____</p>	<p><input type="checkbox"/> This document is being filed together with a new application.</p> <p>A. Patent Application No.(s) <u>13/093,584 filed</u> <u>04/25/2011</u></p> <p>B. Patent No.(s) _____</p> <p>Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>4. Application or patent number(s):</p> <p>A. Patent Application No.(s) <u>13/093,584 filed</u> <u>04/25/2011</u></p> <p>B. Patent No.(s) _____</p> <p>Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>5. Name and address to whom correspondence concerning document should be mailed: Name: <u>B. Todd Patterson</u> <u>PATTERSON & SHERIDAN, LLP</u></p> <p>Internal Address: <u>Atty. Dkt.: APPM/15319US</u> Street Address: <u>3040 Post Oak Blvd, Suite 1500</u></p> <p>City: <u>Houston</u> State: <u>TX</u> Zip: <u>77056</u> Phone Number: <u>(713) 623-4844</u> Fax Number: <u>(713) 623-4846</u> Email Address: <u>tpatterson@pattersonsheridan.com</u></p>
<p>6. Total number of applications and patents involved: 1</p> <p>7. Total fee (37 CFR 1.21(h) & 3.41) \$ <u>40.00</u></p> <p><input checked="" type="checkbox"/> Authorized to be charged to deposit account <input type="checkbox"/> Enclosed <input type="checkbox"/> None required (government interest not affecting title)</p>	<p>8. Payment Information</p> <p>Deposit Account Number <u>50-1074</u> Authorized User Name <u>Robert W. Mulcahy</u></p>
<p>9. Signature:  Signature _____ Date <u>May 11, 2011</u></p> <p><u>Robert W. Mulcahy - 25,436</u> Name of Person Signing</p> <p>Total number of pages including cover sheet, attachments, and documents: 3</p>	

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being transmitted by facsimile to the Patent and Trademark Office, facsimile no. (571) 273-0140, on the date shown below.

Dated: May 12, 2011 Signature:  (Keith M. Tackett)

CH \$40.00 501074 13093584

Atty Dkt No.: 015319/AEP/NEON/ESONG

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

1)	Hiroji HANAWA 696 Spruce Drive Sunnyvale, California 94086	2)	Kyawwin Jason MAUNG 1370 Southgate Avenue Daly City, California 94015

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

IMPROVED RADIATION HEATING EFFICIENCY BY INCREASING OPTICAL ABSORPTION OF A SILICON CONTAINING MATERIAL

for which application for Letters Patent in the United States was filed on April 25, 2011, under Serial No. 13/093,584, 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 (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.

Atty Dkt No.: 015319/AEP/NEON/ESONG

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.

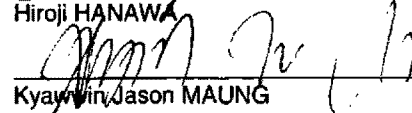
IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to said Assignee on the dates indicated below.

1) 4-26-11 (DATE)



Hiroji HANAWA

2) 4/26/11 (DATE)



Kyaw Win Jason MAUNG