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1. Name of conveying party(ies)

Kaushal K. SINGH, Omkaram NALAMASU, Nety M. KRISHNA, Michael SNURE, Ashutosh, TIWARI

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance/Execution Date(s):

Execution Date(s) 3/4/10, 3/4/10, 2/3/10, 2/4/10, 3/20/10

Assignment **Correct Recordation of Assignment**

--The Incorrect A/N 12/630,280 and correct A/N s/b 12/643,380
--The Incorrect Atty Docket No 013627-02/US/EES/NB, and correct s/b 013627/US/EES/NB
--The Incorrect Title Method and Apparatus for Performing Model-Based Layout Conversion for use with Dipole Illumination, and correct s/b Copper Delafossite Transparent P-Type Semiconductor Thin Film Device

Other from Doc ID *501132220A*, *501135812A

2. Name and address of receiving party(ies)

Name: APPLIED MATERIALS, INC.

Internal Address: _____

Street Address: 3050 BOWERS AVENUE

City: Santa Clara

State: CA

Country: US Zip: 95054

Additional name(s) & address(es) attached? Yes No

4. Application or patent number(s):

This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

12/643,380

Additional numbers attached? Yes No

5. Name and address to whom correspondence concerning document should be mailed:

Name: PILLSBURY WINTHROP SHAW PITTMAN LLP

Internal Address: _____

Street Address: 2475 Hanover Street

City: Palo Alto

State: CA Zip: 94304-1114

Phone Number: (650) 233-4777

Fax Number: (650) 233-4545

Email Address: mark.danielson@pillsburylaw.com

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00

Authorized to be charged to deposit account

Enclosed

None required (government interest not affecting title)

8. Payment Information

Deposit Account Number 033975

Authorized User Name Pillsbury Winthrop et al

9. Signature:

Signature

April 13, 2010

Date

Mark J. Danielson

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

15

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

03/31/2010
501135812

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the Title: COPPER DELAFOSSITE TRANSPARENT P-TYPE SEMICONDUCTOR THIN FILM DEVICES, Ser No: 12/643,380, Dkt No: 013627/US/EES/NBN previously recorded on Reel 024148 Frame 0689. Assignor(s) hereby confirms the USPTO make corrections as indicated.

CONVEYING PARTY DATA

Name	Execution Date
Kaushal K. SINGH	03/04/2010
OMKARAM NALAMASU	03/04/2010
Nety M. KRISHNA	02/03/2010
Michael SNURE	02/04/2010
Ashutosh TIWARI	03/20/2010

RECEIVING PARTY DATA

Name:	APPLIED MATERIALS, INC.
Street Address:	3050 BOWERS AVENUE
City:	SANTA CLARA
State/Country:	CALIFORNIA
Postal Code:	95054

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12843380

CORRESPONDENCE DATA

Fax Number: (703)770-7901
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 703-770-7900

Email: dianna.diaz@pillsburylaw.com

Correspondent Name: PILLSBURY WINTHROP SHAW PITTMAN, LLP

Address Line 1: P.O. BOX 10500

Address Line 4: MCLEAN, VIRGINIA 22102

ATTORNEY DOCKET NUMBER:	013627/USA/EES/NBNP/ESONG
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CH \$40.00 12843380

NAME OF SUBMITTER:

Dianna Diaz

Total Attachments: 9

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Attorney Docket No.: 013627/US/EES/NBN

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Name and Address of Joint Inventors:

<p>1st Inventor Kaushal K. SINGH 2118 San Rafael Avenue Santa Clara, CA 95051 United States of America Citizenship: USA</p>	<p>2nd Inventor Omikaram NALAMASU 2339 Bentley Ridge Drive San Jose, CA 95138 United States of America Citizenship: USA</p>
<p>3rd Inventor Nety M. KRISHNA 1345 Floyd Avenue Sunnyvale, CA 94087 United States of America Citizenship: India</p>	<p>4th Inventor Michael SNURE 805 E. Harrison Avenue Salt Lake City, Utah 84105 United States of America Citizenship: USA</p>
<p>5th Inventor Ashutosh TIWARI 7946 Cliffside Drive Sandy, Utah 84094 United States of America Citizenship: India</p>	

(hereinafter referred to as Assignor(s), has/have invented a certain invention entitled:

COPPER DELAFOSSITE TRANSPARENT P-TYPE SEMICONDUCTOR THIN FILM DEVICES

for which application for Letters Patent in the United States was filed on December 21, 2009, under Serial No. 12/643,380 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 Assignor(s) 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

Attorney Docket No.: 013627US/EES/NBN

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 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 Assignor(s) 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, 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 Assignor(s) 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 Assignor(s) have executed and delivered this instrument to said Assignee on the dates indicated below.

Kaushal K. SINGH

Date

OmKaram NALAMASU

Date

Naty M. KRISHNA
Naty M. KRISHNA

03 FEB 2010
Date

Michael SNURE

Date

Ashutosh TIWARI

Date

Attorney Docket No.: 013627/US/EES/MBN

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 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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Kaushal K SINGH _____ Date _____

Omkarum NALAMASU _____ Date _____

Nety M. KRISHNA _____ Date _____

 _____ Date 2/04/10

Ashutosh TIWARI _____ Date _____

Attorney Docket No.: 013627/US/EES/BNB

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 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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Kaushal K. SINGH

Date

Omkaram NALAMASU

Date

Nety M. KRISHNA

Date

Michael SNURE

Date

Ashutosh Tiwari

Ashutosh TIWARI

03-20-10

Date



UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE



501135812

APRIL 01, 2010

PTAS

PILLSBURY WINTHROP SHAW PITTMAN, LLP
P.O. BOX 10500
MCLEAN, VA 22102

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF NON-RECORDATION OF DOCUMENT

DOCUMENT ID NO.: 501135812

THE ENCLOSED DOCUMENT HAS BEEN EXAMINED AND FOUND NON-RECORDABLE BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. THE REASON(S) FOR NON-RECORDATION ARE STATED BELOW. DOCUMENTS BEING RESUBMITTED FOR RECORDATION MUST BE ACCOMPANIED BY A NEW COVER SHEET REFLECTING THE CORRECT INFORMATION TO BE RECORDED AND THE DOCUMENT ID NUMBER REFERENCED ABOVE.

THE ORIGINAL DATE OF FILING OF THIS ASSIGNMENT DOCUMENT WILL BE MAINTAINED IF RESUBMITTED WITH THE APPROPRIATE CORRECTION(S) WITHIN 30 DAYS FROM THE DATE OF THIS NOTICE AS OUTLINED UNDER 37 CFR 3.51. THE RESUBMITTED DOCUMENT MUST INCLUDE A STAMP WITH THE OFFICIAL DATE OF RECEIPT UNDER 37 CFR 3. APPLICANTS MAY USE THE CERTIFIED PROCEDURES UNDER 37 CFR 1.8 OR 1.10 FOR RESUBMISSION OF THE RETURNED PAPERS, IF THEY DESIRE TO HAVE THE BENEFIT OF THE DATE OF DEPOSIT IN THE UNITED STATES POSTAL SERVICE.

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IF YOU HAVE ANY QUESTIONS REGARDING THIS NOTICE,
YOU MAY CONTACT THE INDIVIDUAL WHOSE NAME APPEARS ON THIS NOTICE AT
571-272-3350.

1. PLEASE PROVIDE THE INCORRECT SERIAL NUMBER IN YOUR NATURE OF CONVEYANCE, IN COMPARISON TO THE CORRECT NUMBER LISTED IN THE PROPERTY FIELD. WE WILL THEN GO TO THE ORIGINAL REEL AND MAKE THE CORRECTION. FAX ALL DOCUMENTS BACK TO 571 273 0140 TO AVOID ADDITIONAL CHARGES.

PAULA MCCRAY-STANLEY, EXAMINER

P.O. Box 1450, Alexandria, Virginia 22313-1450 - www.uspto.gov