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

11/26/13

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.

1. Name of conveying party(ies)

Jennifer Y. Sun; Ren-Guan Duan; Jie Yuan; Li Xu;
and Kenneth S. Collins

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

2. Name and address of receiving party(ies)
Name: Applied Materials, Inc.
Internal Address: 3050 Bowers Avenue

Street Address: _____

City: Santa Clara
State: CA
Country: USA Zip: 95054

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

3. Nature of conveyance/Execution Date(s):
Execution Date(s) 6/18/07; 6/15/07; and 6/14/07.
 Assignment Merger
 Security Agreement Change of Name
 Joint Research Agreement
 Government Interest Assignment
 Executive Order 9424, Confirmatory License
 Other _____

4. Application or patent number(s): This document serves as an Oath/Declaration (37 CFR 1.63).
A. Patent Application No.(s)

Additional numbers attached? Yes No

B. Patent No.(s)

5. Name and address to whom correspondence concerning document should be mailed:
Name: Shirley L. Church, Esq.
Internal Address: P.O. Box 81146

Street Address: _____

City: San Diego
State: CA Zip: 92138
Phone Number: (858) 263-4554
Docket Number: AM-12030-02 C1 D2
Email Address: shirley_church@slcpattlaw.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 50-1074
Authorized User Name: Robert Mulcahy 3998723

9. Signature:
Signature
Robert Mulcahy (Reg. No. 25,436)
Name of Person Signing

Date: 11/26/2013
Date
Total number of pages including cover sheet, attachments, and documents: 3

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

U.S. Express Mail No.:
Attorney Docket No.: AM-12030-02

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

1)	Jennifer Y. Sun 9964 Alpine Terrace Sunnyvale, CA 94086 U.S.A.	2)	Ren-Guan Duan 2415 Rinconada Drive, #11 San Jose, CA 95125 U.S.A.
3)	Jie Yuan 1533 Prosperity Court San Jose, CA 95131 U.S.A.	4)	Li Xu 1738 Fumia Drive San Jose, CA 95131 U.S.A.
5)	Kenneth S. Collins 7214 Glenview Drive San Jose, CA 95120 U.S.A.		

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

**METHOD OF REDUCING THE EROSION RATE OF SEMICONDUCTOR
PROCESSING APPARATUS EXPOSED TO HALOGEN-CONTAINING PLASMAS**

for which an application for Letters Patent in the United was filed on April 27, 2007, under U.S. Serial No. 11/796,210; 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 the Application), and the invention disclosed therein (hereinafter referred to as the 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 the 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 division, substitution, or continuation of said Application; and (d) in and to each and every reissue or extension of any of said Patents.

U.S. Express Mail No.:
Attorney Docket No.: AM-12030-02

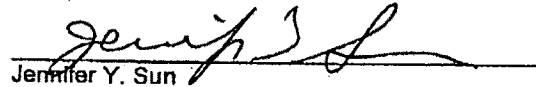
2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall include prompt 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, 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.

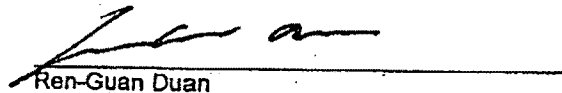
4. Said Assignors hereby warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

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

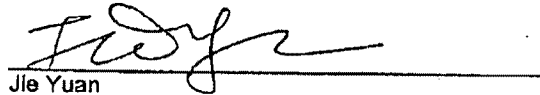
1) 6/18/2007, 2007


Jennifer Y. Sun

2) 06/15/2007, 2007


Ren-Guan Duan

3) 6/14/07, 2007


Jie Yuan

4) 6/15/07, 2007


Li Xu

5) 6-15, 2007


Kenneth S. Collins