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U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

RECORDATION FORM COVER SHEET
PATENTS ONLY

Attorney Docket No. AM-1900

The Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying parties:

Edwin Kim
Michael Nam
Chris Cha
Gongda Yao
Sophia Lee
Fernand Dorleans
Gene Y. Kohara
Jianming Fu

2. Name and address of receiving party:

Name: Applied Materials, Inc.
Address: 3050 Bowers Avenue
Santa Clara, California 95054

Additional names of conveying parties attached? Yes No

Additional names & addresses attached? Yes No

Nature of conveyance:

Assignment Merger
 Security Agreement Change of Name

Other:

Execution Date: February 24, 1998

Application number(s) or patent number(s): 09/370088

If this document is being filed together with a new application, the filing date of the application is: February 24, 1998.

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? Yes No

Name and address of party to whom correspondence concerning document should be mailed:

Name: Patent Counsel

Address: Applied Materials, Inc.

P.O. Box 450-A

Santa Clara, California 95052

6. Total number of applications and patents involved: ONE

Total fee (37 CFR 3.41):\$ 40.00

Enclosed, Check No. _____

Authorized to be charged to deposit account, if necessary

8. Deposit account number:

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Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Shirley L. Church, Esq.
Name of Person Signing
Registration No. 31,858

Shirley L. Church
Signature

2/24/98
Date

Total number of pages including cover sheet, attachments, and document: 4

PTO
09/370088
55/98/98

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses
of Inventors:

1) Edwin Kim
10145 Pomeroy Avenue
Santa Clara, California 95051

and

2) Michael Nam
422-12 Camille Circle
San Jose, California 95134

and

3) Chris Cha
957 Buckeye Drive
Sunnyvale, California 94086

and

4) Gongda Yao
44875 Winding Lane
Fremont, California 94539

and

5) Sophia Lee
5075 Bronte Court
Fremont, California 94538

and

6) Fernand Dorleans
1369 Hyde Street #45
San Francisco, California 94109

and

7) Gene Y. Kohara
38680 Hastings Street #A203
Fremont, California 94536

and

8) Jianming Fu
4631 Salina Drive
San Jose, California 95124

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

**"OXYGEN ENHANCEMENT OF ION METAL PLASMA (IMP) SPUTTER DEPOSITED
BARRIER LAYERS"**

for which an application for Letters Patent in the United States is being filed simultaneously with the submission of this assignment, as U.S. Express Mail No. EE263350198US (as the Serial No. is not yet known), 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:

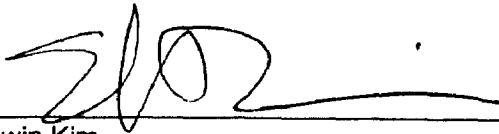
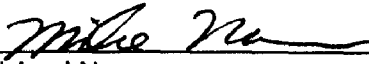
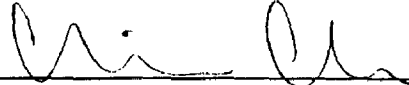
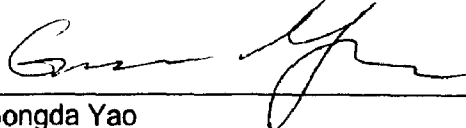
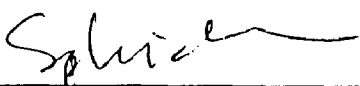

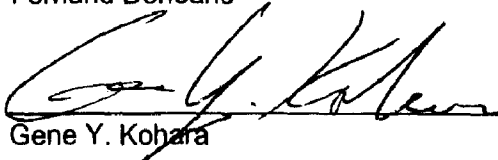
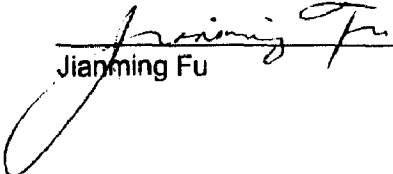
1. Said Assignors hereby sell, assign, transfer and convey to Assignee the full and exclusive right, title and interest (a) in and to said Application and said Invention; (b) in and to all rights to apply for patents on said Invention in any and all countries pursuant to the International Convention 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 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, 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 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) Feb. 23, 1998 
Edwin Kim
- 2) 2/23, 1998 
Michael Nam
- 3) 2/23, 1998 
Y. Chris Cha
- 4) Feb 23, 1998 
Gongda Yao
- 5) Feb 24, 1998 
Sophia Lee
- 6) Feb. 23, 1998 
Fernand Dorleans
- 7) 2/23/98, 1998 
Gene Y. Kohara
- 8) 2/21/, 1998 
Jianming Fu