

01-29-2002

005630 USA/ETCH/METAL



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RECORDATION FORM COVER SHEET

U.S. Department of Commerce

Patent And Trademark Office

(Rev. 6-93)

OMB No. 0651-0011 (exp. 4/94)

PATENTS ONLY

1.11.02

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original document or copy thereof.

1. Name of conveying party(ies):

Date

Yong Deuk KO

10-23-01

Se Jin OH

10-23-01

Chan Ouk JUNG

10-23-01

Jeng H HWANG

10-16-01

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

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other

Execution Date: SEE ABOVE

2. Name and address of receiving party(ies):

Name: APPLIED MATERIALS, INC

Internal Address: PATENT COUNSEL, M/S 2061

Street Address: P.O. Box 450-A

City: Santa Clara State: CA Zip: 95052

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

4. Application number(s) or registration number(s):

If this document is being filed together with a new application, the execution date of the application 09/918,671 FILED 27JL2001

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: APPLIED MATERIALS, INC

Internal Address: PATENT COUNSEL, M/S 2061

Street Address: P.O. Box 450-A

City: Santa Clara State: CA Zip: 95052

6. Total number of applications and patents involved: 1

7. Total fee (37 C.F.R. 3.41)----- \$ 40.00
☐ Enclosed☒ Authorized to be charged to deposit account

50-1074

8. Deposit account number:

50-1074

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9. 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.

Joseph Bach Registration No. 37, 771

DATE 12-31-01

Name of Person Signing

Signature

Total number of pages including cover sheet, attachments and document: 5

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

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01 FD:583

4. 0. 0.

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

1)	Yong Deuk Ko	2)	Se Jin Oh
3)	Chan Ouk Jung	4)	Jeng H. Hwang

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

METHOD OF REDUCING PARTICULATES IN A PLASMA ETCH CHAMBER DURING A METAL ETCH PROCESS

**for which an application for Letters Patent in the United States was filed on July 27, 2001,
under SERIAL 09/918,671 U.S. Express Mail No. ET160304660US;**

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:

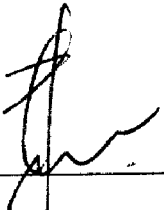
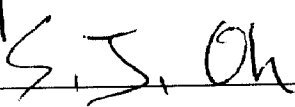

1. Said Assignors hereby sell, assign, transfer and convey to Assignee the full and exclusive right, title and interest (a) in and to said Application and said Invention; (b) in and to all rights to apply for patents on said Invention in any and all countries pursuant to the International Convention 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.

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) Oct 23, 2001 
Yong Deuk Ko
- 2) Oct. 23, 2001 
Se Jin Oh
- 3) Oct 23, 2001 
Chan Ouk Jung
- 4) _____, 2001
Jeng H. Hwang

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

1)	Yong Deuk Ko	2)	Se Jin Oh
3)	Chan Ouk Jung	4)	Jeng H. Hwang

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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) _____, 2001

Yong Deuk Ko

2) _____, 2001

Se Jin Oh

3) _____, 2001

Chan Ouk Jung

4) Oct. 16, 2001

Jeng H. Hwang