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Patent And Trademark

101323990

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

1. Name of conveying party(ies):

Name of Inventors

Date

Katsuhisa Kugimiyu 2-24-2000  
Takanori Nishizawa 2-29-2000  
Daisuke Tajima 2-24-2000

Plasma Processing Of Tungsten Using A Gas Mixture Comprising A  
Fluorinated Gas And Oxygen

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: P.O. Box 450-A

Street Address: \_\_\_\_\_

City: Santa Clara State: CA Zip: 95052Additional 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 is: \_\_\_\_\_ (Date of Filing)

A. Patent Application No.(s) 9 465,031 Filed: 16DE1999

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Patent CounselInternal Address: APPLIED MATERIALS, INC.Street Address: P.O. Box 450-ACity: Santa Clara State: CA Zip: 950526. Total number of applications and patents involved: 17. Total fee (37 C.F.R. 3.41)----- \$ 40.00☐ Enclosed☒ Authorized to be charged to deposit account50-1074

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.

ROBERT W. MULCAHY Reg No. 25,436

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments and document: 3

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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**ASSIGNMENT FOR APPLICATION FOR PATENT****WHEREAS:****Names and Addresses  
of Inventors:**

- 1) Katsuhisa Kugimiya  
2-31-9-103 Kozunomori  
Narita-shi, Chiba 286-048 Japan
- 2) Takanori Nishizawa  
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Chuo-ku, Chiba-shi, Chiba 260-001 Japan
- 3) Daisuke Tajima  
1-14-3 Hiyoshidai  
Tomisato, Inba-gun, Chiba 286-0201 Japan

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

**PLASMA PROCESSING OF TUNGSTEN USING A GAS MIXTURE COMPRISING  
A FLUORINATED GAS AND OXYGEN**

for which we have filed an application for a Patent of the United States on December 16, 1999, Serial No. 09/465,031; 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,