

08-04-2000

FORM PTO-1595
(Modified)U.S. DEPARTMENT OF COMMERCE
PATENTS ONLY Patent and

101422858

To the Honorable Commissioner of Patent.

.....ched original documents or copy thereof

1. Name of conveying party(ies):

EXECUTION DATE

Praburam GOPALRAJA..... 6/6/00
 Jianming FU..... 6/6/00
 Fusen CHEN..... 6/12/00
 Girish DIXIT..... 6/7/00
 Zheng XU..... 6/9/00
 Sankaram ATHREYA..... 6/12/00
 Wei D. WANG..... 6/7/00
 Ashok K. SINHA..... 6/16/00

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

Name: Applied Materials, Inc.Internal Address: Legal Affairs DepartmentStreet Address: P.O. Box 450-ACity: Santa Clara State: CA Zip: 95052Additional Name(s) & address(es) attached? ☐ Yes ☒ NoAdditional name(s) of conveying part(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

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

Execution Date: SEE ABOVE

4. Application number(s) or patent Number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)

Serial No. 09/518,180 - Filing Date: 3/2/00

Additional Numbers attached? ☐ Yes ☒ No

B. Patent No.(s)

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

Name: PATENT COUNSEL
 Internal Address: Applied Materials, Inc.
Legal Affairs Dept.

Street Address: P.O. Box 450-ACity: Santa Clara State: CA ZIP: 95052

08/04/2000 DNGUYEN 00000039 501074 09518180

6. Total number of applications and patents involved: 1

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

☐ Enclosed☒ Authorized to be charged to deposit account

8. Deposit account number:

50-1074

(Attach duplicate copy of this page if paying by deposit account)

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true 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

10. Total number of pages comprising cover sheet, attachments, and document: 3

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

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

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

1)	Praburam Gopalraja 1235 Wildwood Ave., #277 Sunnyvale, CA 94089	2)	Jianming Fu 4631 Salina Drive San Jose, CA 95131
3)	Fusen Chen 13081 La Vista Court Saratoga, CA 95014	4)	Girish Dixit 3258 Reserve Court San Jose, CA 95135
5)	Zheng Xu 279 Hudson Bay Street Foster City, CA 94404	6)	Sankaram Athreya 871 W. California Avenue, Unit B Sunnyvale, CA 94086
7)	Wei D. Wang 3480 Granda Avenue Santa Clara, CA 95051	8)	Ashok K. Sinha 4176 Hubbard Drive Palo Alto, CA 94306

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

Integrated Process for Copper Via Filling Using a Magnetron and Target Producing Highly Energetic Ions

for which application for Letters Patent in the United States was filed on March 2, 2000,

under Serial No. 09/518,180, 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 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.

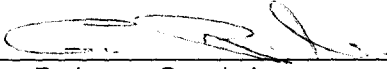
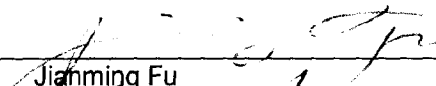

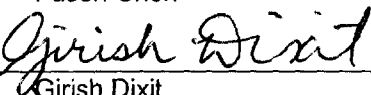
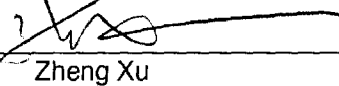
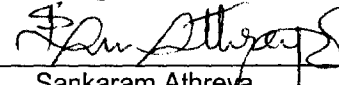

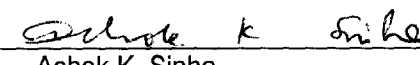
2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall include prompt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

- 1) June 6, 2000 
Praburam Gopalraja
- 2) June 6, 2000 
Jiahming Fu
- 3) June 12, 2000 
Fusen Chen
- 4) June 7, 2000 
Girish Dixit
- 5) June 9, 2000 
Zheng Xu
- 6) June 12, 2000 
Sankaram Athreya
- 7) June 7, 2000 
Wei D. Wang
- 8) June 16, 2000 
Ashok K. Sinha