

09-27-2002



FORM PTO-1595
(Rev 5-93)
OMB No. 0651-0011 (exp. 4/94)

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PATENTS ONLY

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U.S. Department of Commerce
Patent And Trademark Office

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

1. Name of conveying party(ies):

Date

KANG SUB YIM
MELISSA M. TAM
DIAN SUGIARTO
CHI-I LANG
PETER WAI-MAN LEE
LI-QUN XIA

091002
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091302
091002
091202
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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: 95052

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

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: 9-19-02 (Date of Filing)

A. Patent Application No.(s)

10247404

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-A

City: Santa Clara State: CA Zip: 95052

6. 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 account50-1074/6084.P1/DSM/LOW K/JW

8. Deposit account number:

50-1074/6084.P1/DSM/LOW K/JW

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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

9/19/02

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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PATENT
REEL: 013324 FRAME: 0277

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

1)	KANG SUB YIM 1600 Villa Street #103 Mountain View, CA 94041	2)	MELISSA M. TAM 305 Elan Village Lane #208 <i>MT</i> San Jose, CA 95134 <i>38768 Stillwater Cmn</i> <i>Fremont, CA 94536</i>
3)	DIAN SUGIARTO 966 Cascade Drive Sunnyvale, CA 94097	4)	CHI-I LANG 1262 Rembrandt Drive Sunnyvale, CA 94087
5)	PETER WAI-MAN LEE 1037 Bentoak Lane San Jose, CA 95129	6)	LI-QUN XIA 868 Leith Avenue Santa Clara, CA 95054

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

**NEW LOW DIELECTRIC (LOW K) BARRIER FILMS WITH OXYGEN DOPING
BY PLASMA-ENHANCED CHEMICAL VAPOR DEPOSITION (PECVD)**

enclosed herewith or for which application for Letters Patent in the United States was filed on ,
under Serial No. , 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

PATENT**REEL: 013324 FRAME: 0278**

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) 9/10, 2002


KANG SUB YIM

2) Sept 10, 2002


MELISSA M. TAM

3) 9/13, 2002


DIAN SUGIARTO

4) Chi-I Lang 2002


CHI-I LANG

5) Sept 12, 2002


PETER WAI-MAN LEE

6) 9/10, 2002


LI-QUN XIA