

12-21-2000

4428/CMP/CM/ARK

FORM 101 (2-99)
REV. 10-97
OMB No. 0951-0011 (exp. 4/94)

U.S. Department of Commerce
Patent and Trademark Office

NEW

11-22-00



101557540

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

1. Name of conveying party(ies):
 DATE ASSIGNMENT SIGNED
 Phillip R. Sommer
 Paul D. Butterfield
 Joshua T. Oen
 Ching-Ling Meng
 Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other
 Execution Date: 11/22/00

2. Name and address of receiving party(ies):
 Name: Applied Materials, Inc.
 Internal Address:
 Street Address: 3050 Bowers Avenue
 P.O. Box 450A
 City: Santa Clara State: CA Zip: 95054
 Additional name(s) & address(es) attached? Yes No

10853 U.S. PTO
09/18/552
11/22/00

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: 11/22/2000 (Date of Filing)
 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: Patent Counsel
 Internal Address: APPLIED MATERIALS, INC.
 Street Address: P.O. Box 450A
 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

DO NOT USE THIS SPACE

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 11/22/00
 Total number of pages including cover sheet, attachments and document: 1

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

12/20/2000 MTHA11 00000590 501074 09718552

01 FC:581 40.00 CH

J:\FORMS\272 (AUGUST 20, 1993)

PATENT
REEL: 011343 FRAME: 0252

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses
of Inventors:

- 1) Phillip R. Sommer
5218 Channel Drive
Newark, CA 94560
- 2) Paul D. Butterfield
1684 Kevin Drive
San Jose, CA 95124
- 3) Joshua T. Oen
894 Barcelona Drive
Fremont, CA 94536
- 4) Ching-Ling Meng
3634 Fitzsimmons Commons
Fremont, CA 94530

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

CHEMICAL MECHANICAL PLANARIZATION SYSTEM

for which application for Letters Patent in the United States was 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.

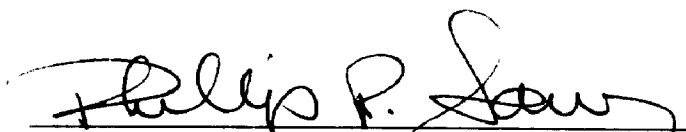
2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall include prompt 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 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) 11/15, 2000



PHILLIP R. SOMMER

2) _____, 2000

PAUL D. BUTTERFIELD

3) _____, 2000

JOSHUA T. OEN

4) _____, 2000

CHING-LING MENG

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses
of Inventors:

- 1) Phillip R. Sommer
7811 Hazelnut Drive
Newark, CA 94560
- 2) Paul D. Butterfield
1684 Kevin Drive
San Jose, CA 95124
- 3) Joshua T. Oen
894 Barcelona Drive
Fremont, CA 94536
- 4) Ching-Ling Meng
3634 Fitzsimmons Commons
Fremont, CA 94530

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

CHEMICAL MECHANICAL PLANARIZATION SYSTEM

for which application for Letters Patent in the United States was 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 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) _____ 2000


PHILLIP R. SOMMER

2) Nov 20 2000



PAUL D. BUTTERFIELD

3) NOV 20th 2000



JOSHUA T. OEN

4) Nov 20 2000



CHING-LING MENG