07-17-1998

Hillini U.S. Department of Commerce OMB No. 0651-0011 (exp. 4/94) 100766393ment or copy thereof. To the Honorable Commissioner of Patents and 1. Name of conveying party(ies): 2. Name and address of receiving party(ies): <u>Date</u> 07/09/98 Name: Applied Materials, Inc. RAYMOND HUNG Internal Address: P.O. Box 450-A JOSEPH PATRICK CAULFIELD 07/07/98 JIAN DING 07/09/98 Additional name(s) of conveying party(ies) attached? ___ Yes __X No Street Address: 3. Nature of conveyance: City: Santa Clara State: CA Zip: 95052 Merger X Assignment Security Agreement __ Change of Name Additional name(s) & address(es) attached? _____ Yes X No __ Other___ Execution Date:____ 4. Application number(s) or registration number(s): A. Patent Application No.(s) B. Patent No.(s) Additional numbers attached? ___ Yes _X No 6. Total number of applications and patents involved: 1 5. Name and address of party to whom correspondence concerning document should be mailed: Name: Patent Counsel Internal Address: APPLIED MATERIALS, INC. X Authorized to be charged to deposit account 01-1651 Street Address: P.O. Box 450-A 8. Deposit account number City: Santa Clara State: CA Zip: 95052 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 oftached copy is a successful copy of the original document. ROBERT W. MULCAHY Name of Person Signing Total number of pages comprising cover sheet 1 REG. 25,436

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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PA ENT REEL: 9307 EN ME: 0406

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

1)	RAYMOND HUNG 1282 BURKETTE DRIVE SAN JOSE, CA 95129	2)	JOSEPH PATRICK CAULFIELD 10870 N. STELLING DRIVE #21F CUPERTINO, CA 95041
3)	JIAN DING 1337 GLEN HAVEN DRIVE SAN JOSE, CA 95129	4)	

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

"INTEGRATED SELF ALIGNED CONTACT ETCH"

for which application for Letters Patent in the United States was filed on, $\frac{7-9-98}{1}$ under Serial No. UNKNOWN, executed on even date herewith.

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.
- 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) July 1998

RAYMOND HUNG

2) July Try, 1998

OSEPH PATRICK CAUL IELD

3) July 941, 1998

RECORDED: 07/09/1998

TIAN DING