

10-16-2001

Attorney Docket No. A6461/T45200

FORM PTO 1595 (Rev. 6-93)		Sheet U.S. Department of Commerce Patent and Trademark Office	
To the Honorable Asst. Commissioner for Patents		ed original documents or copy thereof	
1. Name of conveying party(ies): Fong M. Chang Yu Chang Executed Date 10/01/2001 10/01/2001 Additional name(s) of conveying parties attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 10/01/01		2. Name and address of receiving party(ies) Name: Applied Materials, Inc. Internal Address: Legal Affairs Department Street Address: P.O. Box 450A City: Santa Clara State: CA ZIP: 95052 Additional names and addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other: Execution Date: 10-01-2001		4. Application Number(s) or Patent Numbers. 09/969202 If this document is being filed together with a new application, the execution date of the application is: 10-1-01	
A. Patent Application No(s): Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		B. Patent No(s):	
5. Name and address of party to whom correspondence concerning document should be mailed: Name: Patent Counsel APPLIED MATERIALS, INC. Legal Affairs Department P.O. Box 450A, M/S 2061 Santa Clara, California 95052		6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41): -----\$40.00 <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Charge Fees to Deposit Account <input type="checkbox"/> Charge any additional fees associated with this paper or during the pendency of this application, or credit any overpayment, to deposit account. 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 is true and correct and any attached copy is a true of copy of the original document. Robert W. Mulcahy Name of Person Signing Signature Date 10/11/01 Atty Reg. No. 25,436 Total number of pages including cover sheet, attachments and document: 3			
10. Change Correspondence Address to that of Part 5? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No OMB No. 0651-0011 (exp. 4/94)			
Do not detach this portion Mail documents to be recorded with required cover to: Asst. Commissioner for Patents Box: Assignments Washington, D.C. 20231			

PA 3171454 v1

 PATENT
 REEL: 012239 FRAME: 0784

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses
of Inventors:

1)	Fong M. Chang 16821 Corcel Court Los Gatos, CA 95032 United States	2)	Yu Chang 1493 Fields Drive San Jose, CA 95129 United States
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(hereinafter referred to as Assignors), have invented a certain invention entitled:

**WIRING ARRANGEMENT ENSURING ALL-OR-NONE OPERATION OF A SERIES OF MODULAR
LOAD ELEMENTS**

for which application for Letters Patent in the United States was filed on __/__/__, under Serial
No. Unassigned, 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.

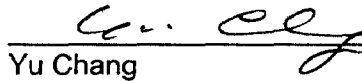
4. Said Assignors hereby warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to said Assignee on the dates indicated below.

1) 10, 01, 2001


Fong M. Chang

2) Oct 15th, 2001


Yu Chang