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

1 Name of conveying party(ies):

Chen-Fa Lu  
Chen-Peng Fan  
Jui-Ping Chuang  
Tien-Chen Hu

10-10-00

2 Name and address of receiving party(ies):

Taiwan Semiconductor Manufacturing Co. Ltd.  
No. 121 Park Avenue III  
Science-Based Industrial Park  
Hsin-Chu, Taiwan, R.O.C.

PTO  
09/686766  
10/10/00

3 Nature of conveyance:

- Assignment  Merger
  - Security Agreement  Change of Name
  - Other:
- Execution Date: August 7, 2000

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: 08-07-00

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:

RANDY W. TUNG  
Tung & Associates  
838 W. Long Lake Road  
Suite 120  
Bloomfield Hills, Michigan 48302

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: 50-0484

(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 correct and any attached copy is a true copy of the original document.

Randy W. Tung  
Name of Person Signing  
Registration No. 31,311

Signature

October 10, 2000  
Date

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

67,200-303

PATENT  
REEL: 011207 FRAME: 0748

ASSIGNMENT


WHEREAS, we, CHEN-FA LU, CHEN-PENG FAN, JUI-PING CHUANG and TIEN-CHEN HU have invented certain improvements in CHEMICAL MECHANICAL POLISH (CMP) PLANARIZING METHOD EMPLOYING DERIVATIVE SIGNAL END-POINT MONITORING AND CONTROL for which we are about to make application for Letters Patent of the United States; and

WHEREAS, TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD. of No. 121, Park Avenue 3, Science-Based Industrial Park, Hsin-Chu, Taiwan, R.O.C, is desirous of acquiring the entire right, title and interest in and to said invention;

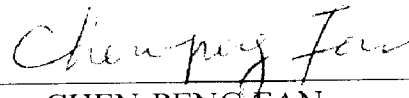
NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, we, CHEN-FA LU, CHEN-PENG FAN, JUI-PING CHUANG and TIEN-CHEN HU, by these presents, do hereby sell, assign and transfer unto the said corporation and its assigns, for the territory of the United States of America and all foreign countries, the entire right, title and interest, including all priority rights under the International Convention associated with each country of the Union, in and to said invention as described in the patent application executed by us on the 7th day of August, 2000, preparatory to obtaining Letters Patent of the United States thereon, and in and to said application

and any Letters Patent that may be granted in pursuance of said application and any divisional, continuation or continuation-in-part application thereof, and in and to any reissue of any such patent, and in and to any patent applications which may be filed on said invention in countries foreign to the United States and any Letters Patent granted thereon.

We further authorize said corporation to apply for foreign patents on said invention in its own name or through its designees, including subsidiaries, related companies or assignees, under the International Convention or otherwise, and we further agree to execute all papers, including those required for the United States and foreign applications, and to perform such other proper acts as said corporation or its designees the rights herein assigned.



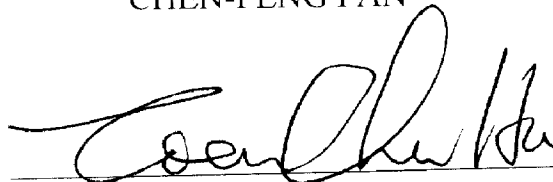
CHEN-FA LU



CHEN-PENG FAN



JUI-PING CHUANG



TIEN-CHEN HU

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