

12-18-2003



To the Honorable Commissioner of Patents

102626078

attached original documents or copy thereof.

1 Name of conveying party(ies):
 KUAN-LUN CHANG
 CHUAN-YING LEE
 CHUN-HON CHEN

12.4-03

2 Name and address of receiving party(ies):
 Taiwan Semiconductor Manufacturing Co. Ltd.
 No. 6. Li-Hsin Rd. 6
 Science-Based Industrial Park
 Hsin-Chu, Taiwan, R.O.C.

22278 U.S. PTO
10/729034



3 Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other:
 Execution Date: August 22, 2003

Additional name(s) & address(es) attached Yes No

4 Application number(s) or patent number(s): 20729034
 If this document is being filed together with a new application, the execution date of the application is: August 22, 2003

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 charge credit card (w/filing fee)
 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

Nov. 21, 2003
 Date

Total number of pages including cover sheet, attachments, and document : 3

ASSIGNMENT

WHEREAS, we, KUAN-LUN CHANG, CHUAN-YING LEE and CHUN-HON CHEN, have invented certain improvements in

HIGH DENSITY MIM CAPACITOR STRUCTURE AND FABRICATION PROCESS

for which we are about to make application for Letters Patent of the United States; and

WHEREAS, TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD. of No. 6, Li-Hsin Rd. 6, 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, KUAN-LUN CHANG, CHUAN-YING LEE and CHUN-HON CHEN, 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 22 day of Aug., 2003, 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.

✓ Kuan-Lun Chang
KUAN-LUN CHANG

✓ Chuan-ying Lee
CHUAN-YING LEE

✓ Chun-Hon Chen
CHUN-HON CHEN

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