



5-31-00

| | | | | | | | |
|---|--|--------|--|--|--|--|--|
| PTO-1595 | | RECORD | | 06-13-2000 | | U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office | |
| | | | |  | | | |
| To the Honorable Commissioner of Patents and Trademarks | | | | 101378956 | | 1 document or copy thereof. | |
| 1 Name of conveying party(ies): Sheng-Hsiung Chen | | | | 2 Name and address of receiving party(ies): Taiwan Semiconductor Manufacturing Co. Ltd. No. 121 Park Avenue 3 Science-Based Industrial Park Hsin-Chu, Taiwan, R.O.C. | | | |
| 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: <u>March 01, 2000</u> | | | | Additional name(s) & address(es) attached <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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: <u>03-01-00</u> A. Patent Application No(s). B. Patent No(s) <u>09-584807</u> Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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 <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to be charged to deposit account | | | |
| | | | | 8 Deposit Account Number: 50-0484 (Attach duplicate copy of this page if paying by deposit account) | | | |
| DO NOT USE THIS SPACE | | | | | | | |
| 9 Statement and signature. <i>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.</i> Randy W. Tung Name of Person Signing Registration No. 31,311  Signature May 31, 2000 Date Total number of pages including cover sheet, attachments, and document: <u>3</u> | | | | | | | |

06/07/2000 DTHMMS 00000018 500484 09584807
Main documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

03 50-584 39.00 CH 1.00

ASSIGNMENT

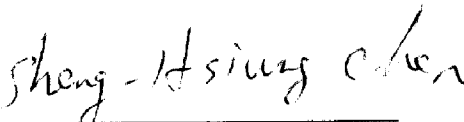
WHEREAS, I, SHENG-HSIUNG CHEN have invented certain improvements in MICROELECTRONIC CAPACITOR STRUCTURE COMPATIBLE WITH COPPER CONTAINING MICROELECTRONIC CONDUCTOR LAYER PROCESSING for which I am about to make application for Letters Patent of the United States; and

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, I, SHENG-HSIUNG 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 me on the Mar. first day of Mar., 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.

I 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 I 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.



SHENG-HSIUNG CHEN

TUNG & ASSOCIATES
838 W. Long Lake Road
Suite 120
Bloomfield Hills, Michigan 48302