

MRO 7-22-98

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PTO-1595		RECC	07-30-1998	U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office
To the Honorable Commissioner of Patents a		100779371		original documents or copy thereof.
1. Name of conveying party(ies): S. M. CHEN Additional names(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		2. Name and address of receiving party(ies): TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD. No. 121 Park Avenue 3 Science-Based Industrial Park Hsin-Chu, Taiwan R.O.C. Additional name(s) & address(es) 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: <u>April 2, 1998</u>		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>April 2, 1998</u> A. Patent Application No(s): <u>09-120810</u> B. Patent No(s): 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: <u>1</u> 7. Total fee (37 CFR 3.41) <u>\$40.00</u> <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to be charged to deposit account 8. Deposit Account Number <u>50-0484</u> (Attach duplicate copy of this page if paying by deposit account)		
07/28/1998 MGORDON 00000025 09120810 02 FC:581		40.00 00		
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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 July 22, 1998 Date Total number of pages including cover sheet, attachments, and document <u>3</u>				

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

PATENT
REEL: 9343 FRAME: 0356

ASSIGNMENT

WHEREAS, I, S. M. CHEN have invented certain improvements in METHOD OF DETERMINING THE TIP ANGLE OF A PROBE CARD NEEDLE 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,

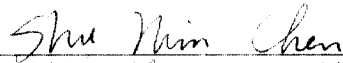
NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, I, S. M. CHEN by these presents, do hereby sell, assign and transfer unto the said corporation and its assigns, for the territory of the United States of America 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 2nd day of April, 1998, 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 and reexamination 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.

PATENT

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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 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.


SHU-MIN CHEN

TUNG & ASSOCIATES
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