

10-06-1999

PTO-1595



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101164176

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

1 Name of conveying party(ies):
Hui-Chuan Hung

Handwritten: Hui-Chuan Hung
9/23/99

3 Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other:
 Execution Date: August 6, 1999

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.

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

Vertical stamp: J0675 U.S. PTO
09/404576
09/23/99

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: 08-06-99

A. Patent Application No(s):
 B. Patent No(s)

Additional numbers attached? Yes No

Handwritten: 09/404576

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

Handwritten Signature
 Signature

September 23, 1999
 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

ASSIGNMENT

WHEREAS, I, HUI-CHUAN HUNG have invented certain improvements in METHOD FOR LOCATING WEAK CIRCUIT HAVING INSUFFICIENT DRIVING CURRENT IN IC CHIPS 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, HUI-CHUAN HUNG, 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 6th day of Aug, 1999, 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.

HUI-CHUAN HUNG Aug. 6, 1999

HUI-CHUAN HUNG

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