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MRD 4-30-98



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To the Honorable Commissioner of Patents and Trademarks, attached original documents or copy thereof.

<p>1. Name of conveying party(ies): HENG-HSIANG CHANG, MING-DOU KER KUO-TSAI LEE AND WEN-HSIANG HUANG</p> <p>Additional names(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>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 Republic of China</p> <p>Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>3. Nature of conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger</p> <p><input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name</p> <p><input type="checkbox"/> Other:</p> <p>Execution Date: <u>January 8, 9, 1998</u></p>	<p>04/30/98</p> <p>09/070529</p>

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: 01-08-09-98

A. Patent Application No(s).	B. Patent No(s)
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Additional numbers attached? Yes No

<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>RANDY W. TUNG Tung & Associates 838 W. Long Lake Road Suite 120 Bloomfield Hills, Michigan 48302</p>	<p>6. Total number of applications and patents involved: <u>1</u></p> <p>7. Total fee (37 CFR 3.41) \$40.00</p> <p><input checked="" type="checkbox"/> Enclosed</p> <p><input type="checkbox"/> Authorized to be charged to deposit account</p> <p>8. Deposit Account Number: <u>50-0484</u></p> <p>(Attach duplicate copy of this page if paying by deposit account)</p>
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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  04-30-98

Name of Person Signing Signature Date

Registration No. 31 311

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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

PATENT REEL: 9149 FRAME: 0037

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ASSIGNMENT

WHEREAS, we, HENG-HSIANG CHANG, MING-DOU KER, KUO-TSAI LEE AND WEN-HSIANG HUANG, have invented certain improvements in OUTPUT ESD PROTECTION USING DYNAMIC-FLOATING-GATE ARRANGEMENT 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, HENG-HSIANG CHANG, MING-DOU KER, KUO-TSAI LEE AND WEN-HSIANG HUANG 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 8TH and 9TH day of January 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 of any such patent, and in and to any patent applications which may be filed on said invention in countries foreign to the

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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.

Heng-Hsiang Chang ← *Heng-Hsiang Chang*
HUN-HSIEN CHANG
Ming-Dou Ker Jan. 8, '98
MING-DOU KER
Kuo-Tsai Lee
KUO-TSAILLEE
Wen-Hsiang Huang
WEN-HSIANG HUANG

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