

3-20-06

PTO-1595

04-13-2006



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2 SHEET U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

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

<p>1 Name of conveying party(ies):</p> <p>CHAO-HSIUN WANG CHIEN-CHAO HUANG HORNG-HUEI TSENG</p>	<p>2 Name and address of receiving party(ies):</p> <p>Taiwan Semiconductor Manufacturing Co. Ltd. No. 8. Li-Hsin Rd. 6 Science-Based Industrial Park Hsin-Chu, Taiwan, R.O.C.</p>
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11/385923



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<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>March 5, 2006</u></p>	<p>Additional name(s) & address(es) attached <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
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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:

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

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 type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to charge credit card (w/filing fee)</p> <p>8 Deposit Account Number: (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
Name of Person Signing
Registration No. 31,311


Signature

3/20/06
Date

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

67,200-1353 (2004-0292)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

04/13/2006 LABELS: 00000005 11385923

06 FD-5024

(40.00 CR)

PATENT
REEL: 017770 FRAME: 0834

67,200-1353
2004-0292

ASSIGNMENT

WHEREAS, we, CHAO-HSIUNG WANG, CHIEN-CHAO HUANG, CHENMING HU, and HORNG-HUEI TSENG have invented certain improvements in
ALLUMINUM BASE CONDUCTOR FOR VIA FULL INTERCONNECT
for which I am about to make application for Letters Patent of the United States; and

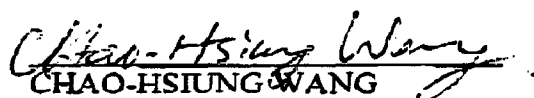
WHEREAS, TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD. of
No. 8, Li-Hsin Rd 6, Science-Based Industrial Park, Hsin-Chu, Taiwan, R.O.C, is desirous of
acquiring the entire right, title and interest in and to said invention;

NOW, THEREFORE, in considration of One Dollar (\$1.00) and other good and
valuable consideration, the receipt of which is hereby acknowledged, we, CHAO-HSIUNG
WANG, CHIEN-CHAO HUANG, CHENMING HU, and HORNG-HUEI TSENG, 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 5th day of MARCH, 2006, 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

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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.


CHAO-HSIUNG WANG

CHENMING HU


CHIEN-CHAO HUANG


HORNG-HUEI TSENG

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