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

1 Name of conveying party(ies):

Yue-Der Chih

12/20/01

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

3 Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name

Other:

Execution Date: July 10, 2001

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: 07-10-01

A. Patent Application No(s).

B. Patent No(s)

Additional numbers attached? Yes 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

- Enclosed
- Authorized to charge credit card (w/filing fee)

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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

December 20, 2001

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

67,200-516

PATENT
REEL: 012419 FRAME: 0480

JC978 U.S. PTO
10/029484

12/20/01

ASSIGNMENT

WHEREAS, I, YUE-DER CHIH have invented certain improvements in

SOURCE LINE HIGH VOLTAGE DRIVER CIRCUIT WITH
IMPROVED RELIABILITY AND READ PERFORMANCE

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, YUE-DER CHIH 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 10th day of
July, 2001, 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.



YUE-DER CHIH

TUNG & ASSOCIATES
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