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

1033 U.S. PTO  
10/21/860  
08/13/02

1 Name of conveying party(ies):

Pu-Fan Chen  
Chao-Po Lu  
Hsi-Shen Chuang  
Yi-Jen Chen  
Chin-Tsai Chen  
Tsukada Kazunori

18-11-02

3 Nature of conveyance:  
 Assignment       Merger  
 Security Agreement       Change of Name  
 Other:  
 Execution Date: June 13, 2002

2 Name and address of receiving party(ies):

Taiwan Semiconductor Manufacturing Co  
No. 121 Park Avenue 3  
Science-Based Industrial Park  
Hsin-Chu, Taiwan, R.O.C.

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

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: 06-13-02

A. Patent Application No(s): 10/217860

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)

8 Deposit Account Number: 50-0484

(Attach duplicate copy of this page if paying by deposit account)

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02 FC:581 40.00 DP

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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]  
Signature

Aug. 13, 2002  
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, we, PU-FAN CHEN, CHAO-PO LU, HSI-SHEN CHUANG, YI-JEN CHEN, CHIN-TSAI CHEN and TSUKADA KAZUNORI, have invented certain improvements in  
METHOD AND APPARATUS FOR IMPROVED GATE OXIDE  
UNIFORMITY WITH REDUCING SYSTEM CONTAMINANTS

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, PU-FAN CHEN, CHAO-  
PO LU, HSI-SHEN CHUANG, YI-JEN CHEN, CHIN-TSAI CHEN and TSUKADA KAZUNORI,  
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  
13 day of June, 2002, 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.

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.

Pu-Fan Chen  
PU-FAN CHEN

Chao Po Lu  
CHAO-PO LU

Hsi-Shen Chuang  
HSI-SHEN CHUANG

Yi-Jen Chen  
YI-JEN CHEN

Chin-Tsai Chen  
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