U.S. DEPARTMENT OF COMMERCE RE Form **PTO-1595** U.S. Patent and Trademark Office (Rev. 10/02) OMB No. 0651-0027 (exp. 6/30/2005) 102661627 Tab settings ⇒ ⇒ ⇒ To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof. Name and address of receiving party(ies) 1. Name of conveying party(ies): Name: Taiwan Semiconductor Manufacturing Company Ltd. Chia-Lin Chen Tze Liang Lee Shih-Chang Chen Internal Address: _____ Additional name(s) of conveying party(ies) attached? Yes V No 3. Nature of conveyance: Merger ✓ Assignment Street Address: No. 8, Li-Hsin Road 6 Security Agreement Change of Name Science-Based industrial Park Other_____ City: Hsin-Chu State: TW Zip: 300-77 Execution Date: 11/25/03 Additional name(s) & address(es) attached? Yes V 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:_____ B. Patent No.(s) A. Patent Application No.(s) 10/395345 Additional numbers attached? Yes V No 6. Total number of applications and patents involved: 5. Name and address of party to whom correspondence concerning document should be mailed: 7. Total fee (37 CFR 3.41).....\$\,_40.00 Name: David M. O'Dell ✓ Enclosed Internal Address: Haynes and Boone, LLP Authorized to be charged to deposit account 8. Deposit account number: Street Address: 901 Main Street, Suite 3100 08-1394 City: Dallas State: TX Zip: 75202 DO NOT USE THIS SPACE 9. Signature. MGETACHE 00000092 10395345 02/03/200 40.00 01 FC:802 David M. O'Dell Name of Person/Signing Total number of pages including cover sheet, attachments, and documents:

Mail documents to be recorded with required cover sheet information to:

Mail Stop Assignment, Commissioner of Patent, P.O. Box 1450 Alexandria, VA 22313-1450

R-65720

Cust. No. 000027683

Attorney Docket No.: 24061.41/TSMC2002-1014 Customer No. 27683

ASSIGNMENT

WHEREAS, We

(1)	Chia-Lin Chen	of	5F, NO. 111, Mingshiang St. Hsin-Chu, Taiwan 300, R.O.C.
(2)	Tze Liang Lee	of	No. 6, Alley 1, Lane 158 Chang Chuen Street Hsin-Chu, Taiwan 300, R.O.C.
(3)	Shih-Chang Chen	of	5F, NO. 111, Minshiang St. Hsin-Chu, Taiwan 300, R.O.C.

have invented certain improvements in

DEVICE PERFORMANCE IMPROVEMENT BY HEAVILY DOPED PRE-GATE AND POST POLYSILICON GATE CLEAN

for which we have filed an application for Letters Patent of the United States of America on March 24, 2003 under United States Patent Application Serial Number 10/395,345; and

WHEREAS, Taiwan Semiconductor Manufacturing Company, Ltd., ("TSMC"), No. 8, Li-Hsin Road 6, Science-Based Industrial Park, Hsin-Chu, Taiwan 300-77, Republic of China is desirous of obtaining the entire right, title, and interest in, to and under the said invention and the said application in the United States of America and in any and all countries foreign thereto;

NOW, THEREFORE, for One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and other good and valuable consideration, we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said TSMC, its successors, legal representatives, and assigns, the entire right, title, and interest in, to and under the said invention, and the said application, and all divisional, renewal, substitutional, and continuing applications thereof, and all Letters Patent of the United States of America which may be granted thereon and all reissues and extensions thereof, and all applications for Letters Patent which may be filed for said invention in any country or countries foreign to the United States of America, and all extensions, renewals, and reissues thereof, and all prior patents and patent applications from which a filing priority of the above-described patent application may be obtained, including the right to collect past damages; and we hereby authorize and request the Commissioner of Patents of the United States of America, and any official of any country or countries foreign to the United States of America, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said invention to the said TSMC, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to said TSMC, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, renewal, substitutional, continuing, and reissue applications, make all rightful declarations and/or oaths

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and generally do everything possible to aid the said TSMC, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said invention in all countries.

First Inventor Name: Residence Address:	Chia-Lin Chen 5F, NO. 111, Mingshiang St. Hsin-Chu, Taiwan 300, R.O.C.
Dated: 15 , 0 3	V Chia-Lin Chen Inventor Signature
Dated: 11/>5 , 03	Chien Hap Chen Witness Signature Witness Name:
Second Inventor Name: Residence Address:	Tze Liang Lee No. 6, Alley 1, Lane 158 Chang Chuen Street Hsin-Chu, Taiwan 300, R.O.C.
Dated: 1/25 0 3	Inventor Signature

Witness Signature Chun-Forg Nich

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Third Inventor Name: Residence Address: Shih-Chang Chen 5F, NO. 111, Minshiang St. Hsin-Chu, Taiwan 300, R.O.C.

Dated:______

Inventor Signature

Duted: 03/12/5

Witness Signature
Witness Name: Shith-Chay Che

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