

# PATENT ASSIGNMENT

Electronic Version v1.1

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Hsien-Wei Chen	04/27/2007
Shih-Hsun Hsu	04/30/2007
Hsueh-Chung Chen	05/15/2007
RECEIVING PARTY DATA	
Name:	TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD.
Street Address:	No. 8, Li-Hsin Rd. 6
Internal Address:	Science-Based Industrial Park
City:	Hsin-Chu
State/Country:	TAIWAN
Postal Code:	300-77, R.O.C.
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	11754394
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ATTORNEY DOCKET NUMBER:	252011-4350
NAME OF SUBMITTER:	Daniel R. McClure

OP \$40.00 11754394

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**PATENT**  
**REEL: 019348 FRAME: 0441**

Total Attachments: 2  
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## ASSIGNMENT

WHEREAS, Hsien-Wei CHEN, Shih-Hsun HSU and Hsueh-Chung CHEN hereafter referred to as ASSIGNOR, has/have invented certain new and useful improvements as described and set forth in the below identified application for United States Letters Patent:

Title: SEMICONDUCTOR DEVICE

Filed: \_\_\_\_\_ Serial No. \_\_\_\_\_

Executed on: April 27, 2007; April 30, 2007 and May 15, 2007

WHEREAS, Taiwan Semiconductor Manufacturing Co., Ltd. of No. 8, Li-Hsin Rd. 6, Science-Based Industrial Park, Hsin-Chu, Taiwan 300-77, R.O.C. hereinafter referred to as ASSIGNEE, is desirous of acquiring ASSIGNOR'S interest in the said invention and application and in any U.S. Letters Patent which may be granted on the same;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, receipt of which is hereby acknowledged by Assignor, Assignor has/have sold, assigned and transferred, and by these presents does/do sell, assign and transfer unto the said Assignee, and Assignee's successors and assigns, all his/her/their rights, title and interest in and to the said invention and application and all future improvements thereon, and in and to any Letters Patent which may hereafter be granted on the same in the United States, the said interest to be held and enjoyed by said Assignee as fully and exclusively as it would have been held and enjoyed by said Assignor had this Assignment and transfer not been made, to the full end and term of any Letters Patent which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignor further agrees/agree that he/she/they will, without charge to said Assignee, but at Assignee's expense, cooperate with Assignee in the prosecution of said application and/or applications, execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof, and will perform such other acts as Assignee lawfully may request, to obtain or maintain Letters Patent for said invention and improvement, and to vest title thereto in said Assignee, or Assignee's successors and assigns.

TSMC2004-0375/0503-A324670S

IN TESTIMONY WHEREOF, Assignor has/have signed his/her/their name(s) on the date(s) indicated.

Hsien-Wei Chen  
Hsien-Wei CHEN

4/27, 2007  
Date:

Shih-Hsun Hsu  
Shih-Hsun HSU

4/30, 2007  
Date:

Hsueh-Chung Chen  
Hsueh-Chung CHEN

May 15, 2007  
Date:

TSMC2004-0375/0503-A3246705