## PATENT ASSIGNMENT

# Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Ching-Wei Wu	12/06/2010
Cheng-Hung Lee	12/06/2010
He-Zhou Wan	12/07/2010
Wei-Yang Jiang	12/06/2010

#### RECEIVING PARTY DATA

Name:	Taiwan Semiconductor Manufacturing Co., Ltd.	
Street Address:	No. 8, Li-Hsin Road 6, Science-Based Industrial Park	
City:	Hsin-Chu	
State/Country:	TAIWAN	
Postal Code:	300-77	

## PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	12983985	

## **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER: 252011-4510

NAME OF SUBMITTER: Daniel R. McClure

Total Attachments: 2 source=01282389#page1.tif

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## ASSIGNMENT

WHEREAS, Ching-Wei WU, Cheng-Hung LEE, He-Zhou WAN and Wei-Yang JIANG 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: READ	ONLY MEMORY AND OPERATING METHOD THEREOF
Filed:	Serial No.
Executed on:	December 6, 2010; December 6, 2010; December 7, 2010;
December 6, 2	010

WHEREAS, Taiwan Semiconductor Manufacturing Co., Ltd of No.8, Li-Hsin Road. 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.

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

TSMC2009-0816/0503-A34577U5

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Ching-Wei Wu	7010/12/6
Ching-Wei WU	Date:
Changling Lex	20/0/1/6
Cheng-Hung LEE	Date:
He-Zhou Wan	2010/12/7
He-Zhou WAN	Date:
Wet-yang Jiang	2010/12/6
Wei-Yang JIANG	Date:

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RECORDED: 01/04/2011

PATENT REEL: 025578 FRAME: 0144