## PATENT ASSIGNMENT

## Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:		NEW ASSIGNMENT			
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT		
CONVEYING PARTY DATA					
		Name	Execution Date		
Jung-Chih TSAO			05/25/2012		
Yu-Sheng WANG			05/25/2012		
Kei-Wei CHEN			05/25/2012		
Ying-Lang WANG			05/25/2012		
RECEIVING PARTY DATA					
Name:	Name: Taiwan Semiconductor Manufacturing Co., Ltd				
Street Address:	No.8, Li-Hsin Road	d. 6, Science-Based Industrial Park			
City:	Hsin-Chu				
State/Country:	TAIWAN				
Postal Code:					
PROPERTY NUMBERS Total: 1					
Property Type		Number			
Application Number: 13488		88958		3958 8958	
Application Number: 13488958   CORRESPONDENCE DATA					
	ATA			134	
CORRESPONDENCE D	ATA (770)951-09	33			
	(770)951-093 770-933-950	0			
Fax Number: Phone: Email:	(770)951-09 770-933-950 dan.mcclure	0 @tkhr.com		\$40.00	
Fax Number: Phone: Email: <i>Correspondence will be</i> .	(770)951-09 770-933-950 dan.mcclure	0	ill be sent via US		
Fax Number: Phone: Email:	(770)951-09 770-933-950 dan.mcclure <i>sent to the e-mail a</i>	0 @tkhr.com		\$40.00	
Fax Number: Phone: Email: <i>Correspondence will be a</i> <i>Mail.</i>	(770)951-09 770-933-950 dan.mcclure <i>sent to the e-mail</i> a THOMAS, K	0 @tkhr.com <i>ddress first; if that is unsuccessful, it</i> и		\$40.00	
Fax Number: Phone: Email: <i>Correspondence will be a</i> <i>Mail.</i> Correspondent Name: Address Line 1: Address Line 2:	(770)951-09 770-933-950 dan.mcclure <i>sent to the e-mail</i> a THOMAS, K	0 @tkhr.com <i>ddress first; if that is unsuccessful, it w</i> AYDEN, HORSTEMEYER & RISLEY,		\$40.00	
Fax Number: Phone: Email: <i>Correspondence will be . Mail.</i> Correspondent Name: Address Line 1:	(770)951-09 770-933-950 dan.mcclure <i>sent to the e-mail</i> a THOMAS, K 400 INTERS SUITE 1500	0 @tkhr.com <i>ddress first; if that is unsuccessful, it w</i> AYDEN, HORSTEMEYER & RISLEY,		\$40.00	
Fax Number: Phone: Email: <i>Correspondence will be a</i> <i>Mail.</i> Correspondent Name: Address Line 1: Address Line 2:	(770)951-09 770-933-950 dan.mcclure <i>sent to the e-mail a</i> THOMAS, K 400 INTERS SUITE 1500 ATLANTA, G	0 @tkhr.com <i>ddress first; if that is unsuccessful, it w</i> AYDEN, HORSTEMEYER & RISLEY, TATE NORTH PARKWAY SE		\$40.00	
Fax Number: Phone: Email: <i>Correspondence will be Mail.</i> Correspondent Name: Address Line 1: Address Line 2: Address Line 4:	(770)951-09 770-933-950 dan.mcclure sent to the e-mail a THOMAS, K 400 INTERS SUITE 1500 ATLANTA, G	0 @tkhr.com <i>ddress first; if that is unsuccessful, it w</i> AYDEN, HORSTEMEYER & RISLEY, TATE NORTH PARKWAY SE GEORGIA 30339		\$40.00	

## ASSIGNMENT

WHEREAS, Jung-Chih TSAO, Yu-Sheng WANG, Kei-Wei CHEN and Ying-Lang WANG

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: <u>SE</u>	MICONDUCTOR DEVICE		
Filed:		Serial No.	
Executed or	n: May 25, 2012		

WHEREAS, <u>Taiwan Semiconductor Manufacturing Co., Ltd.</u> of No. 8, Li-Hsin. Rd. 6, Science-Based Industrial Park, Hsin-Chu, <u>Taiwan 300-77</u>, 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.

TSMC2006-0595/0503-A32547CIPUS

Jung-chik Tson

Jung-Chih TSAO

05/75/2012

Date:

Yu-Sheng Wang Yu-Sheng WANG

05/25/2012

Date:

and and an

05/25/2012 Date:

Ying-Lang Wang

05/25/2012

Date:

TSMC2006-0595/0503-A32547CIPUS

**RECORDED: 06/05/2012**