### 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-Fa CHEN	09/11/2013	
Hung-Wen CHEN	09/11/2013	
Mei-Wei WU	09/11/2013	

# **RECEIVING PARTY DATA**

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

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number		
Application Number:	14023741		

## **CORRESPONDENCE DATA**

**Fax Number**: 4045214286

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 678-483-8899

Email: dan.mcclure@mqrlaw.com

Correspondent Name: McClure, Qualey & Rodack, LLP

Address Line 1: 400 INTERSTATE NORTH PARKWAY SE

Address Line 2: SUITE 200

Address Line 4: ATLANTA, GEORGIA 30339

ATTORNEY DOCKET NUMBER:	252011-4630
NAME OF SUBMITTER:	Daniel R. McClure
Signature:	/Daniel R. McClure/

502491123 REEL: 031182 FRAME: 0881

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Date:	09/11/2013
Total Attachments: 2 source=00095446#page1.tif source=00095446#page2.tif	

PATENT REEL: 031182 FRAME: 0882

#### ASSIGNMENT

WHEREAS, Chin	g-Fa CHE	N. Hung-	Wen CHI	N, and Mo	ei-Wei WU			
hereafter referred described and set	to as ASS orth in the	SIGNOR, below ic	has/have lentified a	invented opplication	certain nev for United	v and ι States	useful impro Letters Pater	vements as nt:
Title: MECHANIS	MS FC	R CLI	EANING	LOAD	PORTS	OF	SEMICON	DUCTOR
PROCESS TOO	S							
Filed:				Serial No.	(1000000000000000000000000000000000000		OCCU	***************************************
Executed on:	TE COMPANIES AS A SECOND							
WHEREAS, Tair	van Semi	conducto	r Manuf	acturing (	Co., Ltd,	of <u>No</u>	.8, Li-Hsin	Road, 6,
Science-Based Industrial Park, Hsin-Chu, Taiwan 300-77, R.O.C. hereinafter referred to as								
ASSIGNEES, is d	esirous of	acquiring	g ASSIGN	OR'S inte	rest in the	said in	vention and	application
and in any U.S. Le	tters Pater	nt which i	nay be gr	anted on th	e 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.

TSMC2013-0771/0503-A37999US

PATENT REEL: 031182 FRAME: 0883

# ASSIGNMENT

9/11/13	Ching-Fa C	hen.
Date	Name: Ching-Na CHEN	(Last name: CHEN)
9/11, 2013	Hungwen Chen	
Date	Name: Hung-Wen CHEN	(Last name: CHEN)
<u> </u>	Mei-Wei Wu	
Date	Name: Mei-Wei WU	(Last name: WU)