## 502422345 07/17/2013

## PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

## CONVEYING PARTY DATA

Name	Execution Date
Chung-Hao TSAI	07/11/2013
Chuei-Tang WANG	07/11/2013
Chen-Hua YU	07/11/2013

#### 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:	13943256

## CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	0941-2794PUS1
NAME OF SUBMITTER:	BRIAN OLIVE
Signature:	/brian olive/
Date:	07/17/2013

Total Attachments: 2

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PATENT REEL: 030814 FRAME: 0279 JP \$40.00 13943256

## ASSIGNMENT

WHEREAS, Chung-Hao TSAI, Chuei-Tang WANG, and Chen-Hua YU 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: MECHANISMS FOR FORMING BUMP STRUCTURES OVER WIDE METAL PAD

Filed: July 16, 2013 Serial No. 13/943,256  Executed on: July 11, 2013				<u> </u>	
56Har 110. 13/743,250	Filed: July 16, 2013		Serial No.	12/0/2 256	
Executed on: July 11, 2013			Deriai 140.	13/943,230	
	Executed on:	July 11, 2013		•	

WHEREAS, <u>Taiwan Semiconductor Manufacturing Co.</u>, <u>Ltd.</u>, of <u>No.8</u>, <u>Li-Hsin Road. 6</u>, <u>Science-Based Industrial Park</u>, <u>Hsin-Chu</u>, <u>Taiwan 300-77</u>, <u>R.O.C.</u> hereinafter referred to as ASSIGNEES, 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.

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## **ASSIGNMENT**

07/11/2013	Chung-Hao Tsai		
Date	Name: Chung-Hao TSAI	(Last name: TSAI)	

7/11/2013 Chuei-Tang Wang

Name: Chuei-Tang WANG (Last name: WANG)

Date Name Chen-Hua YU (Last name: YU)