#### 503160101 01/30/2015

## PATENT ASSIGNMENT COVER SHEET

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NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
CHIH WEI LU	01/21/2015
TSUNG-CHIH CHIEN	01/21/2015
HUI-MIN HUANG	01/21/2015
TIEN-I BAO	01/21/2015

#### **RECEIVING PARTY DATA**

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State/Country:	TAIWAN
Postal Code:	300-77

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

Property Type	Number
Application Number:	14610686

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Total Attachments 2	
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SIGNATURE:	/LaDonna Johnson/
NAME OF SUBMITTER:	LADONNA JOHNSON
ATTORNEY DOCKET NUMBER:	24061.3010

Total Attachments: 2

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**PATENT REEL: 034857 FRAME: 0738**  source=3010\_Assignment#page1.tif source=3010\_Assignment#page2.tif

> PATENT REEL: 034857 FRAME: 0739

Docket No.: 2014.1040/24061.3010 Customer No.: 000042717

WHEREAS, we,

(1)	Chih Wei Lu	of	Taiwan 300-77, Republic of China
(2)	Tsung-Chih Chien	of	Taiwan 300-77, Republic of China
(3)	Hui-Min Huang	of	Taiwan 300-77, Republic of China
(4)	Tien-I Bao	of	Taiwan 300-77, Republic of China

have invented certain improvements in

# BONDING PAD SURFACE DAMAGE REDUCTION IN A FORMATION OF DIGITAL PATTERN GENERATOR

ASSIGNMENT

for which we have executed an application for Letters Patent of the United States of America,

of even date filed herewith; and filed on January 30, 2015, and assigned application number 14/610,686; and

WHEREAS, we authorize the attorney of record to update this document to include Patent Office information as deemed necessary (i.e., filing date, serial number, etc.);

WHEREAS, Taiwan Semiconductor Manufacturing Company, Ltd., ("TSMC"), No. 8, Li-Hsin Rd. 6, Science-Based Industrial Park Hsin-Chu, Taiwan 300-77, Republic of China. is desirous of obtaining the entire right, title, and interest in, to and under the said invention and the said application in the United States of America and in any and all countries foreign thereto;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and other good and valuable consideration, we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said TSMC, its successors, legal representatives, and assigns, the entire right, title, and interest in, to and under the said invention, and the said application, and all divisional, renewal, substitutional, and continuing applications thereof, and all Letters Patent of the United States of America which may be granted thereon and all reissues and extensions thereof, and all applications for Letters Patent which may be filed for said invention in any country or countries foreign to the United States of America, and all extensions, renewals, and reissues thereof, and all prior patents and patent applications from which a filing priority of the above-described patent application may be obtained, including the right to collect past damages; and we hereby authorize and request the Commissioner of Patents of the United States of America, and any official of any country or countries foreign to the United States of America, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said invention to the said TSMC, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to said TSMC, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, renewal, substitutional, continuing, and reissue

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applications, make all rightful declarations and/or oaths and generally do everything possible to aid the said TSMC, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said invention in all countries.

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Inventor Name:	Chih Wei Lu	
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Dated: Chih-Wei	la	V 01/21/2015
		Inventor Signature
Inventor Name:	Tsung-Chih Chien	
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Dated: Jang -	Wil Chen	V 2015/1/1
		Inventor Signature
Inventor Name:	Hui-Min Huang	
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VDated: Hui Min	Humay	Zol 5 / ol / 2L. Inventor Signature
		Inventor Signature
Inventor Name:	Tien-I Bao	
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√Dated:/ ∠   /	2015	1 Zin - 2 Bao
		Inventor Signature

RECORDED: 01/30/2015