## 502696059 02/26/2014

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT2742664

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

## **CONVEYING PARTY DATA**

Name	Execution Date	
HARRY-HAK-LAY CHUANG	12/06/2013	
MING ZHU	12/06/2013	

## RECEIVING PARTY DATA

Name:	TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD.
Street Address:	NO. 8, LI-HSIN RD. 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:	14083956

## CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	2011-0157-D/24061.2707
NAME OF SUBMITTER:	LYDIA EPPS-HILLIARD
Signature:	/LYDIA EPPS-HILLIARD/
Date:	02/26/2014

## Total Attachments: 3

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502696059 REEL: 032297 FRAME: 0931

Docket No.: 2011-0157-D/24061.2707

Customer No.: 000042717

#### ASSIGNMENT

WHEREAS, we,

(1) Harry-Hak-Lay Chuang of

51 Paya Lebar Crescent

Singapore 536191

(2) Ming Zhu

of Block 688F, #13-74

Woodlands Drive 75, Singapore 736688

have invented certain improvements in

# LARGE DIMENSION DEVICE AND METHOD OF MANUFACTURING SAME IN GATE LAST PROCESS

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

of even date filed herewith; and filed on November 19, 2013, and assigned application number 14/083.956; 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, 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 applications, make all rightful declarations and/or oaths and generally do everything possible to aid the

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said TSMC, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.				
Inventor Name:	Harry-Hek-Lay Chuang		••••	
Residence Address:	51 Paya Lebar Crescent, Sir	ngapore 536191		
Dated: 20/3-/	2-06	Inventor Signature	orra	
Inventor Name:	Ming Zhu		<del></del>	
Residence Address: Block 688F, #13-74, Woodlands Drive 75, Singapore 736688				
Dated:	enterente de la companya de la comp	Inventor Signature		

Docket No.: 2011-0157-D/24061.2707

Customer No.: 000042717

said TSMC, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.						patent
Inventor Name:	Harry-Hak-Lay Chuang					
Residence Address:	51 Paya Lebar Crescent Singapore 536191					
Dated:		Inventor S	Signature	***************************************		
Inventor Name:	Ming Zhu					
Residence Address:	Block 688F, #13-74, Woodlan Singapore 736688	ds Drive 75	1	5		
Dated:		Inventor S	Signature	onorina i i i i co o o da o o o o o o o o o o o o o o o o		