503677862 02/03/2016

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SU-HAO LIU	01/25/2016
YAN-MING TSAI	01/25/2016
CHUNG-TING WEI	01/25/2016
ZIWEI FANG	01/26/2016
CHIH-WEI CHANG	01/25/2016
CHIEN-HAO CHEN	01/25/2016
HUICHENG CHANG	01/26/2016

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:	15014318

CORRESPONDENCE DATA

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NAME OF SUBMITTER:	LINDA INGRAM
SIGNATURE:	/Linda Ingram/

503677862 PATENT REEL: 037654 FRAME: 0710

DATE SIGNED:	02/03/2016	
Total Attachments: 3		
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PATENT REEL: 037654 FRAME: 0711

Docket No.: P20150410US00/24061.3155US01

Customer No.: 000042717

ASSIGNMENT

WHEREAS, we,

(1)	Su-Hao Liu	of	Chiayi County, Taiwan, Republic of China
(2)	Yan-Ming Tsai	of	Miaoli County, Taiwan, Republic of China
(3)	Chung-Ting Wei	of	Hsin-Chu, Taiwan, Republic of China
(4)	Ziwei Fang	of	Hsinchu, Taiwan, Republic of China
(5)	Chih-Wei Chang	of	Hsin-Chu, Taiwan, Republic of China
(6)	Chien-Hao Chen	of	Ilan County, Taiwan, Republic of China
(7)	Huicheng Chang	of	Tainan City, Taiwan, Republic of China

have invented certain improvements in

FIELD EFFECT TRANSISTOR CONTACT WITH REDUCED CONTACT RESISTANCE

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

	of even date filed herewith; and
X	filed on February 3, 2016, and assigned application number 15/014,318; 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

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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 said TSMC, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said invention in all countries.

Inventor Name:	Su-Hao Liu	
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Dated: 20/6.	01.25	Su-Hao Liu
		Inventor Signature
Inventor Name:	Yan-Ming Tsai	
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Dated: 20 6, 0 1	,25	Yan - Ming Tsai Inventor Signature
Inventor Name:	Chung-Ting Wei	
Residence Address:	No. 8, Li-Hsin Rd. 6, Science-Based Industrial Park Hsin-Chu, Taiwan 300-77, Republic of China	
Dated: >016.01	. 25	Inventor Signature

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Docket No.: P20150410US00/24061.3155US01

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Dated: 1/26/2016

Inventor Signature

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Inventor Signature

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