501968859 06/26/2012

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

CONVEYING PARTY DATA

Name	Execution Date
Shih-Ming Chang	04/05/2012
Ken-Hsien Hsieh	04/05/2012
Tsong-Hua Ou	04/05/2012
Ru-Gun Liu	04/05/2012
Fang-Yu Fan	04/09/2012
Yuan-Te Hou	04/09/2012

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:	13444648

CORRESPONDENCE DATA

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PATENT

REEL: 028445 FRAME: 0089

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ATTORNEY DOCKET NUMBER:	24061.2040/2011-1317	
NAME OF SUBMITTER:	David M. O'Dell	
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PATENT REEL: 028445 FRAME: 0090

Docket No.: 2011-1317 / 24061.2040

Customer No.: 000042717

ASSIGNMENT

WHEREAS, we,

(1)	Shih-Ming Chang	of	11F., No. 7, Jiazheng 5th Street Zhubei City, Hsinchu County 302, Taiwan R.O.C.
(2)	Ken-Hsien Hsieh	of	5F., No. 49, Sec. 2, Roosevelt Road Da-an District Taipei City 106, Taiwan R.O.C.
(3)	Tsong-Hua Ou	of	4F., No. 76, Hualing Street, Shihlin District Taipei City 111, Taiwan R.O.C.
(4)	Ru-Gun Liu	of	No. 9, Alley 19, Lane 452, Baoshan Road Hsinchu City 300, Taiwan R.O.C.
(5)	Fang-Yu Fan	of	No. 24, Aly. 1, Ln. 366, Sec. 1, Zhongping Road Hukou Township, Hsinchu County 303 Taiwan R.O.C.
(6)	Yuan-Te Hou	of	No. 16, Alley 3, Lane 61, Wuling Road, North District Hsinchu City 300, Taiwan R.O.C.

have invented certain improvements in

A SEMICONDUCTOR DEVICE WITH SELF-ALIGNED INTERCONNECTS

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

X	of even date filed herewith; and	
XX	filed on $04/11/2012$ and assigned application number $\frac{13/444,648}{3}$;	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

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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 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:
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Zhubei City, Hsinchu County 302, Taiwan R.O.C.

Inventor Name:

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Dated: 12 - 04 - 08

Ken-Heien Heich
Inventor Signature

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Dated: 2012-04-05

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Inventor Signature

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Dated: 5 Apr. 2012

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Dated: 2012, 04.09

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Dated: 100 2012.04.09

Year-Te Hou

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