

PATENT ASSIGNMENT

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NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Chien-Wei Wang	04/13/2009
Ching-Yu Chang	04/13/2009
RECEIVING PARTY DATA	
Name:	Taiwan Semiconductor Manufacturing Company, Ltd.
Street Address:	No. 8, Li-Hsin Road 6
City:	Hsin-Chu
State/Country:	TAIWAN
Postal Code:	300-77
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	12430614
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NAME OF SUBMITTER:	Bart Fisher
Total Attachments: 2 source=1184_Assignment#page1.tif source=1184_Assignment#page2.tif	

CH \$40.00 12430614

ASSIGNMENT

WHEREAS, we,

- (1) Chien-Wei Wang of No. 2, Alley 74, Lane 296, Minsheng Road
Wufong Township, Taichung County 413, Taiwan, R.O.C.
- (2) Ching-Yu Chang of No. 17, Hsinchen Road
Yuansun Village, Yilang County, Taiwan, R.O.C.

have invented certain improvements in

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for which we have executed an application for Letters Patent of the United States of America on April 27, 2009, as U.S. Serial No. 12/430,614; 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, R.O.C. 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 One Dollar (\$1.00) and other 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.

Docket No.: 2008-0552 / 24061.1184
Customer No.: 42717

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: Chien-Wei Wang

Residence Address: No. 2, Alley 74, Lane 296, Minsheng Road
Wufong Township, Taichung County 413, Taiwan, R.O.C.

Dated: 2009-4-13

Chien Wei Wang
Inventor Signature

Inventor Name: Ching-Yu Chang

Residence Address: No. 17, Hsinchen Road
Yuansun Village, Yilang County, Taiwan, R.O.C.

Dated: 2009 4 . 13

Ching-Yu Chang
Inventor Signature