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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

CONVEYING PARTY DATA

Name	Execution Date
Gwan Sin CHANG	11/29/2007
Cheng-Hung YEH	11/29/2007
Feng-Ming CHANG	11/30/2007
Ping-Wei WANG	11/30/2007

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:	11949311

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER: 24061.941

NAME OF SUBMITTER: David M. O'Dell

PATENT

REEL: 020297 FRAME: 0124

Total Attachments: 3 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif

> PATENT REEL: 020297 FRAME: 0125

Docket No.: 2007-0187 / 24061.941

Customer No.: 42717

ASSIGNMENT

WHEREAS, we,

(1)	Gwan Sin Chang	of	551, Nanta Road Hsinchu, Taiwan, R.O.C.
(2)	Cheng-Hung Yeh	of	No. 77-22, Yingpan Road, Yingpan Village 18 Jhunan Township, Miaoli County 350, Taiwan, R.O.C.
(3)	Feng-Ming Chang	of	2-7, Lane 295, Tai-lin Street Chia-yi, Taiwan, R.O.C.
(4)	Ping-Wei Wang	of	9F, No. 22, Lane 23, Jian-Zhong First Rd. Hsin-Chu, Taiwan, R.O.C.

have invented certain improvements in

INTEGRATED CIRCUIT DESIGN USAGE AND SANITY VERIFICATION

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

_X	of even date filed herewith; and			
X	filed on Dec. 3, 200 and assigned application number $11/949,311$; and			

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 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.

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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:

Gwan Sin Chang

Residence Address:

551, Nanta Road

Hsinchu, Taiwan, R.O.C.

Dated: 2007. Nov. 29

Inventor Signature

Inventor Name:

Cheng-Hung Yeh

Residence Address:

No. 77-22, Yingpan Road, Yingpan Village 18

Jhunan Township, Miaoli County 350, Taiwan, R.O.C.

Dated: Nov. 39

Thong - Hung Yeh
Inventor Signature

Inventor Name:

Feng-Ming Chang

Residence Address:

2-7, Lane 295, Tai-lin Street

Chia-yi, Taiwan, R.O.C.

Dated: Nov. 30, 200

Inventor Signature

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CZP

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Inventor Name:

Ping-Wei Wang

Residence Address:

9F, No. 22, Lane 23, Jian-Zhong First Rd.

Hsin-Chu, Taiwan, R.O.C.

Dated: 100.31.08

Inventor Signature

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