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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

## **CONVEYING PARTY DATA**

Name	Execution Date
Chih-Wei Hung	04/03/2009
Chia-Ta Hsieh	04/03/2009
Luan C. Tran	04/03/2009

## **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:	12432214

## **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER: 24061.1176	
NAME OF SUBMITTER:	Bart Fisher

Total Attachments: 2

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PATENT REEL: 022614 FRAME: 0415 12432214

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PATENT REEL: 022614 FRAME: 0416

Docket No.: 2008-0547 / 24061.1176

Customer No.: 42717

#### ASSIGNMENT

WHEREAS, we,

(1)	Chih-Wei Hung	of	7F-3, No. 106, Hwa-Yuan Street Hsin-Chu City, Taiwan, R.O.C.
(2)	Chia-Ta Hsieh	of	No. 7, Lane 133, Tung-Feng Road Tainan, Taiwan, R.O.C.
(3)	Luan C. Tran	of	9F-5, Da-Shun, 3rd Road Shin-Shih Township, Tainan County, Taiwan, R.O.C.

have invented certain improvements in

### NON-VOLATILE FIELD PROGRAMMABLE GATE ARRAY

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

_X	of even date filed herewith; and
	filed on April 29, 2009 and assigned application number 12/432,214 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.

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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:

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Chih-Wei Hung

Residence Address:

7F-3, No. 106, Hwa-Yuan Street Hsin-Chu City, Taiwan, R.O.C.

Dated: April 3rd , 209

Mih-Wir Hung Inventor Signature

Inventor Name:

Chia-Ta Hsieh

Residence Address:

No. 7, Lane 133, Tung-Feng Road

Tainan, Taiwan, R.O.C.

Dated:

Luan C. Tran

Residence Address:

Inventor Name:

9F-5, Da-Shun, 3rd Road

Shin-Shih Township, Tainan County, Taiwan, R.O.C.

Dated: April 3rd 2009

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RECORDED: 04/29/2009