## PATENT ASSIGNMENT

# Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

## **CONVEYING PARTY DATA**

Name	Execution Date
Cheng-Lung HUNG	10/09/2008
Yong-Tian HOU	10/09/2008
Keh-Chiang KU	10/09/2008
Chien-Hao HUANG	10/09/2008

#### **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:	12253741

## **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER: 24061.1072

NAME OF SUBMITTER: David M. O'Dell

**PATENT** 

REEL: 021975 FRAME: 0763

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Total Attachments: 3

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PATENT REEL: 021975 FRAME: 0764

Docket No.: 2008-0472 / 24061.1072

Customer No.: 42717

#### ASSIGNMENT

WHEREAS, we	W	HER	EA	S.	we
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(1)	Cheng-Lung Hung	of	No. 14, Lane 443, Minghu Road, East District Hsinchu County 300, Taiwan, R.O.C.
(2)	Yong-Tian Hou	of	BLK #427, #04-192, Choa Chu Kang Ave., 4 Singapore 680427
(3)	Keh-Chiang Ku	of	5F, No. 168, Jianguo Road Sindan City, Taipei County 231, Taiwan, R.O.C.
(4)	Chien-Hao Huang	of	7F, No. 97, Sec. 2, Sanmin Road Banciao City, Taipei County, Taiwan, R.O.C.

have invented certain improvements in

# IMPLANTATION METHOD FOR REDUCING THRESHOLD VOLTAGE FOR HIGH-K METAL GATE DEVICE

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

	of even date filed herewith; and	/	
Х	filed on October 17, 2008 and assigned a	application no. $\frac{12/253,741}{}$ an	ıď

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 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.

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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:

olhungd 2008/10/09 10:54:12

Cheng-Lung Hung

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Dated: >08/10/0

Inventor Signature

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Inventor Cignoture

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Inventor Name:

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Dated: 208, (9, 1)

Min - Hao Huang Inventor Signature

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**RECORDED: 12/05/2008** 

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