### PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Yuri Masuoka	04/17/2009
Huan-Tsung Huang	04/23/2009

#### **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:	13217442

### CORRESPONDENCE DATA

Fax Number: (214)200-0853 Phone: 214-651-5000

Email: ipdocketing@haynesboone.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US

Mail.

Correspondent Name: Haynes and Boone LLP Address Line 1: 2323 Victory Avenue

Address Line 2: Suite 700

Address Line 4: Dallas, TEXAS 75219

ATTORNEY DOCKET NUMBER:	2008-0548-D/24061.1938
NAME OF SUBMITTED:	David M. O'Dell

Total Attachments: 4

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> PATENT REEL: 026931 FRAME: 0866

OF \$40.00 1321/44Z

Docket No.: 2008-0548 / 24061.1157

Customer No.: 42717

## ASSIGNMENT

WHEREAS, we,

- (1) Yuri Masuoka of 15F, #126 Shengli 1st Road
  Jhubei City, Hainchu County 302, Taiwan, R.O.C.
- (2) Huan-Tsung Huang of 6F, #59 Chenggong 1st Street
  Hslnchu County, Taiwan, R.O.C.

have invented certain improvements in

# TRANSISTOR PERFORMANCE IMPROVING METHOD WITH METAL GATE

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

of even date filed herewith; and  iled on 5-8-2009 and assigned application number 12	<u>2/437.696;</u> and
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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 filled 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.

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,

-1-

R-1157 - Assignment

Docket No.: 2008-0548 / 24061.1157 Customer No.: 42717

continuing, and relssue 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:	Yuri Masuoka		
Residence Address:	15F, #126 Shengli 1st Road Jhubel City, Hsinchu County 302, Taiwan, R.O.C.		
Dated: 17/4	12009 Maurof Ra. Inventor Signature		
Inventor Name:	Huan-Tsung Huang		
Residence Address:	6F, #59 Chenggong 1st Street Hsinchu County, Talwan, R.O.C		
Dated:	Inventor Signature		

-2-

Docket No.: 2008-0548 / 24061.1157

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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 filled 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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R-1157 - Assignment

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Inventor Name:

Yuri Masuoka

Residence Address:

15F, #126 Shengli 1st Road Jhubel City, Hsinchu County 302, Taiwan, R.O.C.

Dated:

Inventor Signature

Inventor Name:

Huan-Tsung Huang

Residence Address:

6F, #59 Chenggong 1st Street Hsinchu County, Taiwan, R.O.C

R-1157 - Assignment

-2-

**PATENT REEL: 026931 FRAME: 0870**