#### PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Chi-Ming CHEN	10/07/2011
Po-Chun LIU	10/07/2011
Hung-Ta LIN	10/07/2011
Chin-Cheng CHANG	10/07/2011
Chung-Yi YU	10/07/2011
Chia-Shiung TSAI	10/07/2011
Ho-Yung David HWANG	10/12/2011

#### **RECEIVING PARTY DATA**

Name:	TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD.	
Street Address:	No. 8, Li-Hsin Rd. VI, Hsinchu Science Park	
City:	Hsinchu	
State/Country:	TAIWAN	
Postal Code:	300	

## PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	13277692	

### **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER: T5057-Y558

REEL: 027094 FRAME: 0081

**PATENT** 

**JP** \$40.00 13277692

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NAME OF SUBMITTER:	Randy A. Noranbrock
Total Attachments: 2 source=efiledassgn#page1.tif source=efiledassgn#page2.tif	

PATENT REEL: 027094 FRAME: 0082

## **ASSIGNMENT**

In co which is hereb	nsideration of the y acknowledged	e premises and oth the undersigned,	ner good and	valuable c	onsideration:	in hand paid,	the receipt and	sufficiency of

- 1) Chi-Ming CHEN
- 5) Chung-Yi YU

Po-Chun LIU

6) Chia-Shung TSAI

3) Hung-Ta LIN

- 7) Ho-Yung David HWANG
- Chin-Cheng CHANG

who has made a certain new and useful invention, hereby sells, assigns and transfers unto

# TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD. having a place of business at No.

# 8, Li-Hsin Rd. VI, Hsinchu Science Park, Hsinchu 300, Taiwan (R.O.C.)

its successors and assigns (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled

# SUBSTRATE BREAKDOWN VOLTAGE IMPROVEMENT FOR GROUP III-NITRIDE ON A SILICON SUBSTRATE

- for which an application for United States Letters Patent was filed on  $\frac{10-20-2011}{}$ , and identified by United States Patent Application No.  $\frac{13/277}{692}$ ; or (a)
- (b) for which an application for United States Letters Patent was executed on \_\_\_\_\_\_

and the undersigned hereby authorizes and requests the United States Commissioner of Patents and Trademarks to issue any and all United States Letters Patent which may be granted therefore and any and all extensions, divisions, reissues, continuations, or continuations-in-part thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agrees that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agrees to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

SIGNED on the date indicated aside my signature:

1) Chi Ming Chon
Name: Chi-Ming CHEN

2) V For Chun Li u
Name: Po-Chun LIU

3) V Mag - Ta Lin
Name: Hung-Ta JiN

Date:

2011/10/7

Date:

Date: Date: .

**PATENT** REEL: 027094 FRAME: 0083

4) v Chin-Cherg CHIANG	V 2011. (0.)
Name: Chin-Cheng CHANG	Date:
5) V Chury Vi Yu	V 2011, 10.7
Name: Chung-Yi YU	Date:
6) V Chang- 4 you, Chias high Tsai	V 2011,10,7
Name: Chia-Shiung TSAI	Date:
7) V Jan Daylo HWANG Name: Ho-Yung Daylo HWANG	V 2011, 10, 12

PATENT REEL: 027094 FRAME: 0084

**RECORDED: 10/20/2011**