502423267 07/17/2013

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Chi-Ming CHEN	07/05/2013
Chih-Wen HSIUNG	07/05/2013
Chen-Hao CHIANG	07/05/2013
Po-Chun LIU	07/05/2013
Chung-Yi YU	07/05/2013
Chia-Shiung TSAI	07/05/2013
Xiaomeng CHEN	07/11/2013
Ming-Chang CHING	07/05/2013

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:	13944494

CORRESPONDENCE DATA

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Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

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PATENT

REEL: 030818 FRAME: 0542

JP \$40.00 13944494

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ATTORNEY DOCKET NUMBER:	T5057-899
NAME OF SUBMITTER:	Randy A. Noranbrock
Signature:	/Randy A. Noranbrock/
Date:	07/17/2013
Total Attachments: 2 source=EfiledAssgn#page1.tif source=EfiledAssgn#page2.tif	

PATENT REEL: 030818 FRAME: 0543

ASSIGNMENT

In consideration of the premises and other good and	valuable consideration ir	n hand paid, t	the receipt and	sufficiency of
which is hereby acknowledged, the undersigned,		• •	•	.,

Chi-Ming CHEN
 Chin-Wen HSIUNG
 Ching-Yi YU
 Ming-Chang CHING
 Chen-Hao CHIANG
 Xiaomeng CHEN

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

TRANSISTOR HAVING DOPED SUBSTRATE AND METHOD OF MAKING THE SAME

(a)	and identified by
	United States Patent Application No. 13/944, 494; or
(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 Unit	ted States Letters Patent which may be granted therefore and any and all extensions, divisions, reissues, continuations, or
continu	ations-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) V Ch: M: I Chen.

Name: Chi-Ming CHEN

Date:

2) V Chih-Wen USIUNG

Name: Chih-Wen HSIUNG

3) V Name: Ming-Chang CHING

A) V Chen-Nav Chāuŋ

Name: Chen-Hao CHIANG

Date:

Date:

PATENT REEL: 030818 FRAME: 0544

5) B-Churtin	V 7013,7,5
Name: Po-Chun LIU	Date:
6) Ching Ji Yu	_ V 2013. 7.5
Name: Chung-Yi YU	Date:
7) V chia Thing 75-	1 2013.7.5
Name: Chia-Shiung TSAI	Ďate:
8) V Warning lin	V 2013, 7,11
Name: Xiaomena CHEN	Date

PATENT REEL: 030818 FRAME: 0545

RECORDED: 07/17/2013