

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4001642

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
KING-YUEN WONG	07/18/2013
PO-CHIH CHEN	07/18/2013
CHEN-JU YU	07/18/2013
FU-CHIH YANG	07/18/2013
JIUN-LEI JERRY YU	07/18/2013
FU-WEI YAO	07/18/2013
RU-YI SU	07/18/2013
YU-SYUAN LIN	07/18/2013
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:	15233515
CORRESPONDENCE DATA	
Fax Number:	(703)518-5499
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
Phone:	7036841111
Email:	tsmc@ipfirm.com
Correspondent Name:	HAUPTMAN HAM, LLP (TSMC)
Address Line 1:	2318 MILL ROAD
Address Line 2:	SUITE 1400
Address Line 4:	ALEXANDRIA, VIRGINIA 22314
ATTORNEY DOCKET NUMBER:	T5057-915A
NAME OF SUBMITTER:	RANDY A. NORANBROCK
SIGNATURE:	/Randy A. Noranbrock/

PATENT

DATE SIGNED:	08/10/2016
Total Attachments: 2 source=EfiledAssgn#page1.tif source=EfiledAssgn#page2.tif	

Docket No. T5057-915
TSMC2013-0615**ASSIGNMENT**

In consideration of the premises and other good and valuable consideration in hand paid, the receipt and sufficiency of which is hereby acknowledged, the undersigned,

- | | |
|-------------------|----------------------|
| 1) King-Yuen WONG | 5) Jiun-Lei Jerry YU |
| 2) Po-Chih CHEN | 6) Fu-Wei YAO |
| 3) Chen-Ju YU | 7) Ru-Yi SU |
| 4) Fu-Chih YANG | 8) Yu-Syuan LIN |

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

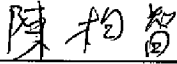
TRANSISTOR HAVING METAL DIFFUSION BARRIER AND METHOD OF MAKING THE SAME

- (a) for which an application for United States Letters Patent was filed on July 23, 2013, and identified by United States Patent Application No. 13/948,925; 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 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) 
Name: King-Yuen WONG
- 2) 
Name: Po-Chih CHEN
- 3) 
Name: Chen-Ju YU
- 4) 
Name: Fu-Chih YANG

7/18/2013
Date:

7/18/2013
Date:

7/18/2013
Date:

7/18/2013
Date:

5) Jian yu
Name: Jian-Lei Jerry YU

7/18/2013
Date:

6) F. W. Yao
Name: Fu-Wei YAO

7/18/2013
Date:

7) R. Y. Su.
Name: Ru-Yi SU

7/18/2013
Date:

8) 林丁軒
Name: Yu-Syuan LIN

7/18/2013
Date: