PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CHEN-LIANG CHU	07/31/2014
CHIH-WEN ALBERT YAO	07/31/2014
RUEY-HSIN LIU	07/31/2014
MING-TA LEI	07/31/2014

RECEIVING PARTY DATA

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State/Country:	TAIWAN	
Postal Code:	300-77	

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	14453304	

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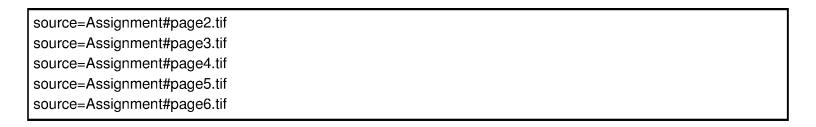
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ATTORNEY DOCKET NUMBER: TSMCP473US	
NAME OF SUBMITTER:	JAMES R. POTASHNIK
SIGNATURE: /James R. Potashnik/	
DATE SIGNED:	08/06/2014

Total Attachments: 6

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PATENT 502924546 REEL: 033479 FRAME: 0277



PATENT ASSIGNMENT

PARTIES TO THE ASSIGNMENT

Assignor(s):

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Assignor(s):

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Assignee:

Taiwan Semiconductor Manufacturing Co., Ltd. No. 8, Li-Hsin Rd. 6, Hsin-Chu Science Park Hsin-Chu, Taiwan 300-77 Republic of China

AGREEMENT

WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled

"SELECTIVE POLYSILICON DOPING FOR GATE INDUCED DRAIN LEAKAGE IMPROVEMENT" for which:

a	non-provisional	application	for	United	States	Letters	Patent:

	PATENT was filed on and accorded U.S. Serial No. REEL: 0033479 FRAME: 0279
	Assignment on the same day as he/she signs the Declaration); or
\boxtimes	was executed on even date preparatory to filing (each inventor should sign this

Ш	hereby authorize and request my attorney associated with Customer No
	107476, to insert on the designated lines below the filing date and applicatio
	number of said application when known:
	U.S. Serial No.
	iled on

WHEREAS, ASSIGNEE (listed above), a corporation of the Republic of China is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefore in the United States and in any and all foreign countries;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S) hereby sell, assign and transfer unto ASSIGNEE its successors and assigns, the entire right, title and interest in and to said invention and improvements, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues, re-examinations and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit and of their successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR(S) had this assignment, transfer and sale not been made. ASSIGNOR(S) hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNOR(S) agree to execute all instruments and documents required for the making and prosecution of the instruments and documents required for the making and prosecution of the instruments and documents required for the making and prosecution of the instruments and documents required for the making and prosecution of the instruments and documents required for the making and prosecution of the instruments and documents required for the making and prosecution of the instruments and documents required for the making and prosecution of the instruments and documents required for the instruments and documents are also as the instruments are als

nd prosecution of Tablications for REEL: 033479 FRAME: 0280

United States and foreign letters patent on said invention, for litigation regarding said letters patent, or for the purpose of protecting title to said invention or letters patent therefore.

7.3/ ¹20/4 Date Name 1st Inventor Chen-Liang Chu

TSMC Docket No. TSMC2014-0559 Docket No. TSMCP473US

 $\frac{\eta/\dot{s}}{\text{Date}}$

Name

2nd Inventor Chih-Wen Albert Ya

TSMC Docket No. TSMC2014-0559 Docket No. TSMCP473US

N

Ruey-HSm Liu.

Name 3rd Inventor Ruey-Hsin Liu

TSMC Docket No. TSMC2014-0559 Docket No. TSMCP473US

7/31, 2014 Date

Ming-Ta Lei

Name 4th Inventor Ming-Ta Lei

PATENT REEL: 033479 FRAME: 0284

RECORDED: 08/06/2014