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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KONG-BENG THEI	07/03/2018
CHIEN-CHIH CHOU	07/03/2018
HSIAO-CHIN TUAN	07/10/2018
YI-HUAN CHEN	07/03/2018
ALEXANDER KALNITSKY	07/05/2018

RECEIVING PARTY DATA

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Internal Address:	HSIN-CHU SCIENCE PARK
City:	HSIN-CHU
State/Country:	TAIWAN
Postal Code:	300-77

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16693670

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SIGNATURE:	/Anthony L. Venci/
DATE SIGNED:	11/25/2019

PATENT REEL: 051102 FRAME: 0076 505790051

Total Attachments: 7 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif source=Assignment#page4.tif source=Assignment#page5.tif source=Assignment#page6.tif source=Assignment#page7.tif

PATENT REEL: 051102 FRAME: 0077



PATENT ASSIGNMENT

PARTIES TO THE ASSIGNMENT

Assignor(s): Kong-Beng Thei
Assignor(s): Chien-Chih Chou
Assignor(s): Hsiao-Chin Tuan
Assignor(s): Yi-Huan Chen
Assignor(s): Alexander Kalnitsky
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
"A METHOD AND RELATED APPARATUS FOR REDUCING GATE-INDUCED DRAIN
LEAKAGE IN SEMICONDUCTOR DEVICES" for which:
a non-provisional application for United States Letters Patent:
was executed on even date preparatory to filing (each inventor should sign this
Assignment on the same day as he/she signs the Declaration); or
was filed on and accorded U.S. Serial No; or
☐ I hereby authorize and request my attorney associated with Customer No.
107476, to insert on the designated lines below the filing date and application

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number of said application when known:

U.S. Serial No.	
filed 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 applications for 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.

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7/3 12018

Date

Name 1st Inventor Kong-Beng Thei

7/3,2018.

Date

Name 2nd Inventor Chien-Chih Chou

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Date

Name 3rd Inventor Hsiao-Chin Tuan

J-Huan Chen
4th Inventor Yi-Huan Chen

Name 5th Inventor Alexander Kalnitsky

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