507084047 01/20/2022

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ANHAO CHENG	01/08/2018
FANG-TING KUO	01/08/2018

RECEIVING PARTY DATA

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State/Country:	y: TAIWAN		
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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17576727

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ATTORNEY DOCKET NUMBER: 20171227 / 24061.3596US03	
NAME OF SUBMITTER: JANIE MARTINEZ-HOLM	
SIGNATURE: /Janie Martinez-Holm/	
DATE SIGNED:	01/20/2022

Total Attachments: 2

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PATENT 4047 REEL: 058709 FRAME: 0564

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Docket No.: P20171227US00/ 24061.3596US01

Customer No.: 000042717

ASSIGNMENT

WHEREAS,	we,		
(1)	Anhao Cheng	of	Hsinchu, Taiwan (R.O.C.)
(2)	Fang-Ting Kuo	of	Heinahu Caunty Taiwan (B. O. C.)

have invented certain improvements in

MULDBELG

GATE STRUCTURE AND METHODS THEREOF

for which we have executed an application for Letters Patent of the United States of America,

______ of even date filed herewith; and
______ filed on ______ and assigned application number ______; and

WHEREAS, we authorize the attorney of record to update this document to include Patent Office information as deemed necessary (i.e., filing date, serial number, etc.);

WHEREAS, Taiwan Semiconductor Manufacturing Co., Ltd., ("TSMC"), 8, Li-Hsin Rd. 6, Hsinchu Science Park, Hsinchu, Taiwan 300-78, Republic of China. is desirous of obtaining the entire right, title, and interest in, to and under the said invention and the said application in the United States of America and in any and all countries foreign thereto;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and other good and valuable consideration, we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said TSMC, its successors, legal representatives, and assigns, the entire right, title, and interest in, to and under the said invention, and the said application, and all divisional, renewal, substitutional, and continuing applications thereof, and all Letters Patent of the United States of America which may be granted thereon and all reissues and extensions thereof, and all applications for Letters Patent which may be filed for said invention in any country or countries foreign to the United States of America, and all extensions, renewals, and reissues thereof, and all prior patents and patent applications from which a filing priority of the above-described patent application may be obtained, including the right to collect past damages; and we hereby authorize and request the Commissioner of Patents of the United States of America, and any official of any country or countries foreign to the United States of America, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said invention to the said TSMC, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to said TSMC, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, renewal, substitutional, continuing, and reissue applications, make all rightful declarations and/or oaths and generally do everything possible to aid the said TSMC, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said invention in all countries.

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PATENT REEL: 058709 FRAME: 0565 ahcheng 2018/01/08 09:25:59

Docket No.: P20171227US00/ 24061.3596US01

Customer No.: 000042717

Inventor Name:

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Dated:

2018,1.8

Anhao Cheng.

Inventor Signature

Inventor Name:

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Kuo Fong Try

Inventor Signature

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RECORDED: 01/20/2022

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