506628849 04/26/2021

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CHUN HSIUNG TSAI	12/14/2017
YA-YUN CHENG	12/14/2017
SHAHAJI B. MORE	12/14/2017
CHENG-YI PENG	12/14/2017
WEI-YANG LEE	12/14/2017
KUO-FENG YU	12/14/2017
YEN-MING CHEN	12/14/2017
JIAN-HAO CHEN	12/14/2017

RECEIVING PARTY DATA

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State/Country:	TAIWAN	
Postal Code:	300-78	

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	17240027	

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NAME OF SUBMITTER:	MARIA TEDESCO

506628849 PATENT REEL: 056038 FRAME: 0709

SIGNATURE:	/Maria Tedesco/
DATE SIGNED:	04/26/2021
Total Attachments: 3 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif	

PATENT REEL: 056038 FRAME: 0710

Docket No.: P20173116US00/24061.3664US01

Customer No.: 42717

ASSIGNMENT

WHEREAS, we,

(1)	Chun Hsiung Tsai	of	Hsinchu County, Taiwan, Republic of China
(2)	Ya-Yun Cheng	of	Taichung City, Taiwan, Republic of China
(3)	Shahaji B. More	of	Hsinchu City, Taiwan, Republic of China
(4)	Cheng-Yi Peng	of	Taipei City, Taiwan, Republic of China
(5)	Wei-Yang Lee	of	Taipei City, Taiwan, Republic of China
(6)	Kuo-Feng Yu	of	Hsinchu County, Taiwan, Republic of China
(7)	Yen-Ming Chen	of	Hsin-Chu County, Taiwan, Republic of China
(8)	Jian-Hao Chen	of	Hsinchu City, Taiwan, Republic of China

have invented certain improvements in

METHOD FOR FINFET LDD DOPING

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

X	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.

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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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Dated: 2017 - 1 0	2-14 Inventor Signature	

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Dated: \Z	14,7017	Inventor Signature
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