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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
ZHI-CHANG LIN	03/13/2019
WEI-HAO WU	06/12/2019
JIA-NI YU	03/03/2019
CHIH-HAO WANG	04/22/2019
KUO-CHENG CHING	03/13/2019

RECEIVING PARTY DATA

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City:	HSINCHU
State/Country:	TAIWAN
Postal Code:	300-78

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16362864

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	2018-0665/24061.3766US01
NAME OF SUBMITTER:	KYLE HOWARD
SIGNATURE:	/Kyle Howard/
DATE SIGNED:	08/08/2019

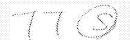
PATENT REEL: 050012 FRAME: 0181 505613385

Total Attachments: 2

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PATENT REEL: 050012 FRAME: 0182



Docket No.: P20180665US00/24061.3766US01 Customer No.: 42717

ASSIGNMENT

WHEREAS, we,

(1)	Zhi-Chang Lin	of	Hsinchu County, Taiwan, Republic of China
(2)	Wei-Hao Wu	of	Hsinchu City, Taiwan, Republic of China
(3)	Jia-Ni Yu	of	Hsinchu, Taiwan, Republic of China
(4)	Chih-Hao Wang	of	Hsinchu County, Taiwan, Republic of China
(5)	Kuo-Cheng Ching	of	Zhubei City, Taiwan, Republic of China

have invented certain improvements in

INTEGRATED CIRCUITS WITH GATE CUT FEATURES

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

of even date filed herewith; and

X filed on 16/362,864 and assigned application number 03-25-2019; 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

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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.

Inventor Name:	Zhi-Chang Lin	
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Dated: >0/7, 43, /		Inventor Signature
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Dated: <u>我</u> た <u>でり</u> ,		Wall-Hap Wu Inventor Signature
Inventor Name:	Jia-Ni Yu	
Residence Address:	8, Li-Hsin Rd. 6, Hsinchu Scier Hsinchu, Taiwan 300-78, Reput	
Dated: <u> </u>	63	<u>Jia Ni Yu</u> Inventor Signature
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4/、/	Holly Berry Comments, SAR W. S. B.	Republic of China
Dated: <u>/ アン/ マ</u> /) ()	Chih-Hao Wang
		Inventor Signature
Inventor Name:	Kuo-Cheng Ching	
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ſ	Zhubei City, Hsinchu County 30	
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