

PATENT ASSIGNMENT COVER SHEET

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CONVEYING PARTY DATA

Name	Execution Date
HONG-YING LIN	09/06/2019
CHENG-YI WU	09/06/2019
ALAN TU	09/06/2019
CHUNG-LIANG CHENG	09/06/2019
LI-HSUAN CHU	09/06/2019
ETHAN HSIAO	09/06/2019
HUI-LIN SUNG	09/06/2019
SZ-YUAN HUNG	09/06/2019
C.W. CHIU	09/06/2019
CHIH-WEI HSIEH	09/06/2019
CHIN-SZU LEE	09/06/2019
SHENG-YUNG LO	09/06/2019

RECEIVING PARTY DATA

Name:	TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD.
Street Address:	NO. 8, LI-HSIN ROAD 6, HSINCHU SCIENCE PARK
City:	HSIN-CHU
State/Country:	TAIWAN
Postal Code:	300-77

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15797869

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PATENT

ATTORNEY DOCKET NUMBER:	P20170723US00/N1085-01685
NAME OF SUBMITTER:	RICHARD C. KIM
SIGNATURE:	/Richard C. Kim/
DATE SIGNED:	09/06/2019
Total Attachments: 4 source=N1085-01685_Executed_Assignment#page1.tif source=N1085-01685_Executed_Assignment#page2.tif source=N1085-01685_Executed_Assignment#page3.tif source=N1085-01685_Executed_Assignment#page4.tif	

ASSIGNMENT AND AGREEMENT

For value received, we, **Hong-Ying LIN, Cheng-Yi WU, Alan TU, Chung-Liang CHENG, Li-Hsuan CHU, Ethan HSIAO, Hui-Lin SUNG, Sz-Yuan HUNG, Sheng-Yung LO, C.W. CHIU, Chih-Wei HSIEH and Chin-Szu LEE**, hereby transfer to **Taiwan Semiconductor Manufacturing Co., Ltd.**, with its principal place of business located at No. 8, Li-Hsin Road 6, Hsinchu Science Park, Hsin-Chu 300-77, Taiwan, Republic of China, and its successors, assigns and legal representatives, the entire right, title and interest, for the United States of America, in and to certain inventions related to **NOVEL CONTACT STRUCTURE**, described in non-provisional application S.N. 15/797,869 filed October 30, 2017, and under any and all Letters Patent and any divisions, continuations, continuations-in-part, reexamination certificates, reissues, and extensions thereof, or claiming priority therefrom that may be granted in the United States for said inventions; and we also concurrently hereby sell, assign and transfer to Taiwan Semiconductor Manufacturing Co., Ltd. the entire right, title and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.

We authorize Taiwan Semiconductor Manufacturing Co., Ltd. to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from us, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of Taiwan Semiconductor Manufacturing Co., Ltd. to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

We request that any and all patents for said inventions be issued to Taiwan Semiconductor Manufacturing Co., Ltd. in the United States and in all countries foreign to the United States, or to such nominees as Taiwan Semiconductor Manufacturing Co., Ltd. may designate.

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We agree that, when requested, we shall, without charge to Taiwan Semiconductor Manufacturing Co., Ltd. but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.

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