

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
CHIA-CHUN CHANG	11/10/2017
ALAN ROTH	11/21/2017
ERIC SOENEN	11/21/2017
TYSH-BIN LIU	11/10/2017
RECEIVING PARTY DATA	
Name:	TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LIMITED
Street Address:	NO. 8, LI-HSIN RD. VI,
Internal Address:	HSINCHU SCIENCE PARK
City:	HSINCHU
State/Country:	TAIWAN
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	17224223
CORRESPONDENCE DATA	
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NAME OF SUBMITTER:	MATTHEW W. JOHNSON
SIGNATURE:	/Matthew W. Johnson/
DATE SIGNED:	04/07/2021
Total Attachments: 2	
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source=625381_Assignment#page2.tif	

JOINT

ASSIGNMENT

WHEREAS, WE, Chia-Chun Chang, having a mailing address of No. 8, Li-Hsin Rd. VI, Hsinchu Science Park, Hsinchu, Taiwan residing at Taoyuan County 320, Taiwan, Alan Roth, having a mailing address of No. 8, Li-Hsin Rd. VI, Hsinchu Science Park, Hsinchu, Taiwan residing at Leander, Texas, USA, Eric Soenen, having a mailing address of No. 8, Li-Hsin Rd. VI, Hsinchu Science Park, Hsinchu, Taiwan residing at Austin, Texas, USA, and Tysh-Bin Liu, having the mailing address of No. 8, Li-Hsin Rd. VI, Hsinchu Science Park, Hsinchu, Taiwan residing at Hsinchu County, Taiwan, ASSIGNORS, are the inventors of the invention in "AUTO CALIBRATION DEAD-TIME CONTROL CIRCUIT" for which we have executed an application for a Patent of the United States

- which is executed on even date herewith or [DATE]
- which is identified by Jones Day docket no. I81877-625381
- which was filed on _____, Application No. _____
- We hereby authorize and request attorney(s) at Jones Day, to insert here in parentheses (Application number _____, filed _____) the filing date and application number of said application when known.

and WHEREAS, Taiwan Semiconductor Manufacturing Company Limited, a corporation organized and existing under the laws of the Republic of China, and having an office for the transaction of business at No. 8, Li-Hsin Rd. VI, Hsinchu Science Park, Hsinchu, Taiwan, PROPRIETOR, is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said application:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said PROPRIETOR, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and all right to sue for infringement including past infringement.

AND WE HEREBY authorize and request the Commissioner for Patents and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said PROPRIETOR, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree 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 the said PROPRIETOR, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said PROPRIETOR, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

IN TESTIMONY WHEREOF, We hereunto set our hands and seals the day and year set opposite our respective signatures.

Date 2019/11/10

Chia - Chun Chang L.S.
Chia-Chun Chang

Date 11/21/17

[Signature] L.S.
Alan Roth

Date 4/21/17

[Signature] L.S.
Eric Soenen

Date 2019/11/10

Tysh-Bin Liu L.S.
Tysh-Bin Liu