504502036 08/14/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KAM-TOU SIO	07/13/2017
CHIH-LIANG CHEN	07/13/2017
CHIH-MING LAI	07/24/2017
CHARLES CHEW-YUEN YOUNG	07/13/2017
HUI-TING YANG	07/13/2017
KO-BIN KAO	08/03/2017
RU-GUN LIU	07/25/2017
SHUN LI CHEN	07/13/2017

RECEIVING PARTY DATA

Name:	TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD.
Street Address:	NO. 8, LI-HSIN RD. VI, HSINCHU SCIENCE PARK
City:	HSINCHU
State/Country:	TAIWAN
Postal Code:	300

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15676225

CORRESPONDENCE DATA

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NAME OF SUBMITTER:	RANDY A. NORANBROCK
SIGNATURE:	/Randy A. Noranbrock/

504502036 PATENT REEL: 043283 FRAME: 0800

DATE SIGNED:	08/14/2017
Total Attachments: 2	
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source=EfiledAssgn#page2.tif	

PATENT REEL: 043283 FRAME: 0801

Docket No. P20160463US00 T5057-1230U

ASSIGNMENT

In consideration of the premises and other good at	nd valuable consideration in hand paid, the receipt and sufficiency of
which is hereby acknowledged, the undersigned,	, ,

Kam-Tou SIO **Hui-Ting YANG** 5) Chih-Liang CHEN 2) 6) Ko-Bin KAO Chih-Ming LAI 7) Ru-Gun LIU Charles Chew-Yuen YOUNG Shun Li CHEN 8)

WHICH INCLUDES CONDUCTORS

Name: Chih-Ming LAI

who has made a certain new and useful invention, hereby sells, assigns and transfers unto TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD., having a place of business at No. 8, Li-Hsin Rd. VI, Hsinchu Science Park, Hsinchu 300, Taiwan R.O.C.

its successors and assigns (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled

METHOD OF MANUFACTURING CONDUCTORS AND SEMICONDUCTOR DEVICE

(a)	for which an application for United States Letters Patent was fi United States Patent Application No.	ed on, and identified by; or
(b)	for which an application for United States Letters Patent was ex	ecuted on
all Unit continua Property	undersigned hereby authorizes and requests the United States C ed States Letters Patent which may be granted therefore and an ations-in-part thereof, and the right to all benefits under the lay to the said ASSIGNEE, for its interest as ASSIGNEE, its succession that the attorneys of record in said application shall hereafter act of	y and all extensions, divisions, reissues, continuations, or nternational Convention for the Protection of Industrial essors, assigns and legal representatives: the undersigned
ASSIGN applicat ASSIGN	AND the undersigned hereby agrees to transfer a like inte- ion for and obtaining original, divisional, reissued or extended L NEE, its successors, assigns and legal representatives, and witho- ions for patent based thereon, growing out of or related to the NEE, its successors, assigns and legal representatives, deemed en- tion hereby transferred.	etters Patent of the United States, upon request of the said at further remuneration, in and to any improvements, and as said invention; and to execute any papers by the said
SIGNE	O on the date indicated aside my signature:	
1)	Kam-Tou SIO	2017.7.13, Date:
Name:	Kam-Tou SIO	Date:
2)	Chik-Liang Chen Chih-Liang CHEN	2017,07,13
Name:	Chih-Liang CHEN	Date:
3)	Chih-Ming Lai	2017 67 28

Date:

4) Name: Charles Chew-Yuen YOUNG	Docket No. P20160463US00 T5057-1230U Date:
5) HUT - TIME YANG Name: Hui-Ting YANG	7/13/201] Date:
6) Ko-Biw Xaw Name: Ko-Bin KAO	<u>Ψ⇒. ωο17</u> Date:
7) Ru-Grun Liu Name: Ru-Gun Liu	7/5 5 70 () Date:
8) Shum Li CHEN Name: Shun Li CHEN	7/13/2019 Date: