505832069 12/20/2019

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TUNG-HENG HSIEH	09/19/2014
HUI-ZHONG ZHUANG	09/19/2014
CHUNG-TE LIN	09/26/2014
SHENG-HSIUNG WANG	09/19/2014
TING-WEI CHIANG	09/19/2014
LI-CHUN TIEN	09/22/2014

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:	16722324

CORRESPONDENCE DATA

Fax Number: (703)518-5499

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 7036841111 tsmc@ipfirm.com Email:

HAUPTMAN HAM, LLP (TSMC) **Correspondent Name:**

Address Line 1: 2318 MILL ROAD Address Line 2: **SUITE 1400**

Address Line 4: ALEXANDRIA, VIRGINIA 22314

ATTORNEY DOCKET NUMBER:	T5057-1088B
NAME OF SUBMITTER:	RANDY A. NORANBROCK
SIGNATURE:	/Randy A. Noranbrock/
DATE SIGNED:	12/20/2019

PATENT REEL: 051397 FRAME: 0236 505832069

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Docket No. T5057-1088 TSMC2014-0642

ASSIGNMENT

In consideration of the premises and other good and valuable consideration is	a hand po	aid, the receipt	and sufficiency of
which is hereby acknowledged, the undersigned,	7.	•	-

I) Tung-Heng HSMCH

4) Sheng-Hsiung WANG

Hut-Zhong ZHUANG

5) Ting-Wel CHIANG

Chang-Te LIN

Li-Chun TIEN

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, Fisinchu Science Park, Hsinchu 300; Taiwan R.O.C.

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

SYSTEM AND METHOD OF PROCESSING CUTTING LAYOUT AND EXAMPLE

SWITCHING CIRCUIT

(a)	for which an application for United States Letters Patent was filed on 2014-09-29 und identified by United States Patent Application No. 14/500,528 or
(в)	for which an application for United States Letters Palent was executed on
ali Unit continu Propert	undersigned hereby authorizes and requests the United States Commissioner of Patents and Trademarks to issue any and ed States Letters Putent which may be granted therefore and any and all extensions, divisions, reissues, continuations; or ations-in-part thereof, and five right to all benefits under the International Convention for the Protection of Industrial y to the said ASSIGNEB, for its interest as ASSIGNEB, its successors, assigns and legal representatives; the undersigned hat the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEB;
ÁŠSIG: applica ASSIG	AND the undersigned hereby agrees to transfer a like interest, and to reader all necessary assistance in making item for and obtaining original, divisional, ressued or extended Letters Petent of the United States, upon request of the said NEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and tions for putent based thereon, growing out of or related to the said invention; and to execute any papers by the said NEE, its successors, assigns and legal representatives, deemed essential to ASSKONEE's full protection and title in and to attion hereby transferred.

SIGNED on the date indicated aside my signature:

Name: Hni-Zhong ZHUANG

4) Sheng Harny WAPD Name: Sheng-Hsiung WANG

9/19/2014 9/19/2014 9/22-2016

PATENT REEL: 051397 FRAME: 0239

RECORDED: 12/20/2019