504819370 03/14/2018

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
FENG WEI KUO	03/03/2015
SHUO-MAO CHEN	03/17/2015
CHIN-YUAN HUANG	03/17/2015
KAI-YUN LIN	03/17/2015
HO-HSIANG CHEN	03/05/2015
CHEWN-PU JOU	03/11/2015

RECEIVING PARTY DATA

Name:	TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD.	
Street Address:	et 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:	15921040

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 Email: tsmc@ipfirm.com

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: T5057-1119A RANDY A. NORANBROCK NAME OF SUBMITTER: **SIGNATURE:** /Randy A. Noranbrock/ 03/14/2018 **DATE SIGNED:**

PATENT REEL: 045206 FRAME: 0847 504819370

Total Attachments: 2 source=EfiledAssgn#page1.tif

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Docket No. P20140949US00 T5057-1119

ASSIGNMENT

In co which is hereb	nsideration of the premises and other go y acknowledged, the undersigned,	od and	valuable consideration in hand paid, the receipt and sufficiency of
1)	Feng Wei KUO	4)	Kai-Yun LIN
2)	Shuo-Mao CHEN	5)	Ho-Hsiang CHEN
3)	Chin-Yuan HUANG	6)	Chewn-Pu JOU
MANUFACT <u>300, Taiwan R</u>	URING COMPANY, LTD., <u>having a pl</u> R.O.C.	ace of b	sells, assigns and transfers unto TAIWAN SEMICONDUCTOR outsiness at No. 8, Li-Hsin Rd. VI, Hsinchu Science Park, Hsinchu
	and assigns (hereinafter designated "ASS 5 U.S.C. 100 in the invention entitled	IGNEE'	') the entire right, title and interest for the United States of America
INTEGRA'	TED CIRCUIT STACK VERIE	<u>ICAT</u>	TON METHOD AND SYSTEM FOR
PERFORM	IING THE SAME		
(a) for w Unite	hich an application for United States Letted States Patent Application No14/6	ers Pate: 521,05	nt was filed on $2015-02-12$, and identified by 4 ; or
(b) for w	hich an application for United States Lett	ers Pate	nt was executed on,
all United Stat continuations-i Property to the	tes Letters Patent which may be granted in-part thereof, and the right to all ben	therefor efits und SIGNEE	States Commissioner of Patents and Trademarks to issue any and e and any and all extensions, divisions, reissues, continuations, or der the International Convention for the Protection of Industrial, its successors, assigns and legal representatives; the undersigned after act on behalf of said ASSIGNEE;
application for ASSIGNEE, it applications fo ASSIGNEE, it	and obtaining original, divisional, reissu s successors, assigns and legal represent or patent based thereon, growing out of	ed or ex atives, a or relat	like interest, and to render all necessary assistance in making tended Letters Patent of the United States, upon request of the said nd without further remuneration, in and to any improvements, and ted to the said invention; and to execute any papers by the said leemed essential to ASSIGNEE's full protection and title in and to
SIGNED on th	e date indicated aside my signature:		
1) Feng Name: Feng	Wei KUO		7015, 03.03 Date:
2) <u>Shuo</u> Name: Shuo-	-Mao Chen -Mao CHEN		2015. 03. 17 Date:
3) Name: Chin-	Yuan HUANG		2015.03.17.

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4) Vai - Yun Lin	2015.02.17
4) Van - Yun dus Name: Kai-Yun LIN	Date:
5) Ho-Hsiang CHEN	2015.03.05
Name: Ho-Hsiang CHEN	Date:
6) Lempfu	2015, 03.11
Name: Chewn-Pu JOU	Date:

PATENT REEL: 045206 FRAME: 0850

RECORDED: 03/14/2018