505529163 06/17/2019

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5575969

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

CONVEYING PARTY DATA

Name	Execution Date
SHENG-CHUN YANG	04/23/2019
YI-MING LIN	04/24/2019
CHAO-HUNG WAN	04/24/2019

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:	16395666

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: T5057-1368U NAME OF SUBMITTER: RANDY A. NORANBROCK SIGNATURE: /Randy A. Noranbrock/ **DATE SIGNED:** 06/17/2019

Total Attachments: 1

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PATENT REEL: 049491 FRAME: 0982 505529163

Np-24828-0-115-BUTL @

Docket No. T5057-1368U P20181381US00

ASSIGNMENT

In consideration of the premises and oth	er good and val	uable consideration	in hand paid	, the receipt	and sufficiency of
which is hereby acknowledged, the undersigned,			Ì	•	Î

Sheng-chun YANG

3) Chao-Hung WAN

Yi-Ming LIN

RECORDED: 06/17/2019

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.

	excessors and assigns (hereinafter designated "ASSIGN ined in 35 U.S.C. 100 in the invention entitled	(EE") the entire right, title and interest for the United States of America
DIFI	FUSER AND SEMICONDUCTOR PROC	CESSING SYSTEM USING SAME
(a)	for which an application for United States Letters I United States Patent Application No16/39	Patent was filed on 2019-04-26, and identified by 95,666
(b)	for which an application for United States Letters I	Patent was executed on,
all Un contin Proper agrees applic ASSIC applic ASSIC	uited States Letters Patent which may be granted ther mations-in-part thereof, and the right to all benefits ity to the said ASSIGNEE, for its interest as ASSIGNEE that the attorneys of record in said application shall heard. AND the undersigned hereby agrees to transferation for and obtaining original, divisional, reissued of GNEE, its successors, assigns and legal representative ations for patent based thereon, growing out of or	nited States Commissioner of Patents and Trademarks to issue any and refore and any and all extensions, divisions, reissues, continuations, or under the International Convention for the Protection of Industrial NEE, its successors, assigns and legal representatives; the undersigned rereafter act on behalf of said ASSIGNEE; or a like interest, and to render all necessary assistance in making or extended Letters Patent of the United States, upon request of the said ass, and without further remuneration, in and to any improvements, and related to the said invention; and to execute any papers by the said as, deemed essential to ASSIGNEE's full protection and title in and to
SIGNI	ED on the date indicated aside my signature:	
1) <u> </u>	heny chun John John 1900 (1900) (1900	
2) Nam	ic: Yi-Ming LIN	04/24 20/9 Date:
3)(Nam	Chro-Hung Wan	Date:

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