# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	ASSIGNMENT		

#### **CONVEYING PARTY DATA**

Name	Execution Date		
JUNG-CHAN YANG	01/22/2020		
TING-WEI CHIANG	01/22/2020		
HUI-ZHONG ZHUANG	01/22/2020		
CHI-YU LU	01/22/2020		

### **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:	16659305				

## **CORRESPONDENCE DATA**

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NAME OF SUBMITTER:	RANDY A. NORANBROCK
SIGNATURE:	/Randy A. Noranbrock/
DATE SIGNED:	03/16/2020

**Total Attachments: 1** 

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**PATENT** REEL: 052126 FRAME: 0952

505969505

# ASSIGNMENT

In consideration of the premises and	other goo	d and	l valuable	consideration	in hand	d paid,	the rece	eipt and	sufficiency	/ 01
which is hereby acknowledged, the undersigned	ed,					_		-	_	

		nsideration of the premises any acknowledged, the undersign		valuable consideration in hand paid, the receipt and sufficiency of
	1)	Jung-Chan YANG	3)	Hui-Zhong ZHUANG
	2)	Ting-Wei CHIANG	4)	Chi-Yu LU
MANUF	ACT	a certain new and useful in URING COMPANY, LTD Taiwan R.O.C.	vention, hereby so , having a place	ells, assigns and transfers unto TAIWAN SEMICONDUCTOR of business at No. 8, Li-Hsin Rd. VI, Hsinchu Science Park
its success as defined	sors a I in 3	and assigns (hereinafter design 5 U.S.C. 100 in the invention e	entitled	") the entire right, title and interest for the United States of America
POWE	<u>K K</u>	<u>AIL WITH NON-LINE</u>	AR EDGE	
(a) i	for wi Unite	hich an application for United d States Patent Application No	States Letters Pate	nt was filed on 2019-10-21 , and identified by ; or
(b) f	for wl	nich an application for United	States Letters Pate	nt was executed on,
all United continuati Property t agrees tha applicatio ASSIGNE applicatio ASSIGNE	I Stations-lite the the AND n for IE, its ns for IE	es Letters Patent which may be nepart thereof, and the right said ASSIGNEE, for its interstatomeys of record in said apposition the undersigned hereby agreand obtaining original, divisions successors, assigns and legal repatent based thereon, growing the said and obtaining original and legal repatent based thereon, growing the said and the s	e granted therefore to all benefits un est as ASSIGNEF lication shall here to transfer a nal, reissued or ex representatives, ang out of or relatives.	States Commissioner of Patents and Trademarks to issue any and re and any and all extensions, divisions, reissues, continuations, or der the International Convention for the Protection of Industrial I, its successors, assigns and legal representatives; the undersigned after act on behalf of said ASSIGNEE;  like interest, and to render all necessary assistance in making tended Letters Patent of the United States, upon request of the said and without further remuneration, in and to any improvements, and ted to the said invention; and to execute any papers by the said iteemed essential to ASSIGNEE's full protection and title in and to
		e date indicated aside my signa	ture:	
l)	Jung	ung-Chan YANG Chan YANG		トラン . / . とレ Date:
2) /	a.	we chiese		Date:
3)} Name: F	lui-Z	hong ZHUANO	ang	7020. [. 22.

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**PATENT REEL: 052126 FRAME: 0953** 

**RECORDED: 03/16/2020**