PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CHUNG-CHIEH YANG	04/10/2020
TAI-YI CHEN	04/15/2020
YUN-RU CHEN	04/15/2020
YUNG-CHOW PENG	04/10/2020

RECEIVING PARTY DATA

Name:	TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD.	
Street Address:	NO.8, LI-HSIN RD.6	
Internal Address:	SCIENCE-BASED INDUSTRIAL PARK	
City:	HSINCHU	
State/Country:	TAIWAN	
Postal Code:	300	

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	16886550	

CORRESPONDENCE DATA

Fax Number:

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.

Email: kcale@mabr.com

Correspondent Name: R. BURNS ISRAELSEN Address Line 1: MASCHOFF BRENNAN

Address Line 2: 1389 CENTER DRIVE, SUITE 300

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ATTORNEY DOCKET NUMBER:	T1516.10695US01	
NAME OF SUBMITTER:	R. BURNS ISRAELSEN	
SIGNATURE:	/R. Burns Israelsen, Reg. No. 42685/	
DATE SIGNED:	05/30/2020	

Total Attachments: 2

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PATENT REEL: 052795 FRAME: 0038

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PATENT REEL: 052795 FRAME: 0039 NP-25246-US/P20190951US00

Inventor(s)-to-Assignee

76008

ASSIGNMENT

This assignment agreement is applicable to an invention entitled (Invention Title)						
GENERATION OF LAYOUT INCLUDING POWER DELIVERY NETWORK						
The PATENT RIGHTS referred to in this agreement are:						
(check one) ⊠a patent application for this invention, executed by the ASSIGNOR(S)						
concurrently with this assignment.						
[X]U.S. patent application Serial No. 16/886,550 filed May 28, 2020						
a U.S. patent application based on PCT International Application						
Nofiled on (date)(U.S. patent application						
Serial No, if known).						
U.S. patent No, issued						
The PATENT RIGHTS also include all divisions, reissues, continuations and extensions of						
the patents and patent applications identified above.						
The PATENT RIGHTS assigned under this agreement are:						
⊠U.S. patent rights only:						
The ASSIGNOR(S) referred to in this agreement is (or are) the inventor(s) whose signatures						
appear on page 2 of this Assignment and any Supplemental Sheet(s).						
The ASSIGNEE referred to in this agreement is:						
(Name of Assignee) TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD.						
(Address) NO.8, LI-HSIN RD.6, SCIENCE-BASED INDUSTRIAL PARK, HSINCHU,						
TAIWAN 300, R.O.C.						
The ASSIGNEE is:						
(check one) An individual.						
A Partnership.						
A Corporation of <u>TAIWAN, R.O.C.</u> (specify state or country)						
[[]](other)						
The ASSIGNOR(S), in consideration of \$10.00 paid by the ASSIGNEE, and other good and						
valuable consideration, receipt of which is acknowledged, hereby assign(s) the following						
rights to the ASSIGNEE, its successors and assigns:						
the full and exclusive right to the invention;						
the entire right, title and interest in and to the PATENT RIGHTS;						
the right to sue and recover for any past infringement; and						
the right to claim priority under 35 USC 119, 35 USC 120, or any other applicable						
provisions, based on any earlier patent applications for this invention.						

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RECORDED: 05/30/2020

THIS IS PAGE 2 OF AN ASSIGNMENT FROM THE INVENTOR(S) TO ASSIGNEE: TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD. INVENTION TITLE: GENERATION OF LAYOUT INCLUDING POWER DELIVERY NETWORK

As to all U.S. patent applications assigned under this agreement, the ASSIGNOR(S) hereby authorize(s) and request(s) the Commissioner of Patents and Trademark to issue all Letters Patent to the ASSIGNEE as the assignee of the entire right, title and interest, for the sole use and enjoyment of said ASSIGNEE, its successors and assigns.

Further, the ASSIGNOR(S) agree(s) to communicate to said ASSIGNEE, or its representatives, any fact known to the ASSIGNOR(S) with respect to said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal, reexamination and reissue applications, execute all necessary assignment papers to cause and all Letter Patent to be issued to said ASSIGNEE, make all rightful oaths and generally do everything necessary or desirable to aid said ASSIGNEE, its successors and assigns, to obtain and enforce proper protection for said invention.

The ASSIGNOR(S) authorize(s) the attorneys and agents who have the power of attorney in this application to check any appropriate boxes and to insert the Serial Number and filing date in this document after it has been executed.

Chung-Chieh YANG	Chung-Chieh Your	2020. 4.15
Name of sole or first inventor	Signature	Date
Tai-Yi CHEN	Tai Yi Chen	2020, 4, 15
Name of second inventor, if any	Signature	Date
Yun-Ru CHEN	Yun-Ru Chen	2020 - 4 - 15
Name of third inventor, if any	Signature	Date
Yung-Chow PENG Name of fourth inventor, if any	Gung-Chow Revo	2020 · 4 · 10 · Date

PATENT REEL: 052795 FRAME: 0041