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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
YA-CHIN CHIU	09/10/2020
MING-HSIEN LIN	09/10/2020
CHIA-TUNG HSU	09/10/2020
LUN-CHIEH CHIU	09/21/2020

RECEIVING PARTY DATA

Name:	TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD.	
Street Address:	8, LI-HSIN RD. 6	
Internal Address:	HSINCHU SCIENCE PARK	
City:	HSINCHU	
State/Country:	TAIWAN	
Postal Code:	300-78	

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	17989528	

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.

Phone: 8012971850

Email: kcale@mabr.com

Correspondent Name: R. BURNS ISRAELSEN

Address Line 1: MASCHOFF BRENNAN

Address Line 2: 111 S MAIN ST #600

Address Line 4: SALT LAKE CITY, UTAH 84111

ATTORNEY DOCKET NUMBER:	T1516.10769US03	
NAME OF SUBMITTER:	R. BURNS ISRAELSEN	
SIGNATURE:	/R. Burns Israelsen, Reg. No. 42685/	
DATE SIGNED:	11/21/2022	

Total Attachments: 2

PATENT REEL: 061844 FRAME: 0039 source=T1516.10769US03 Assignment#page1.tif source=T1516.10769US03 Assignment#page2.tif

PATENT REEL: 061844 FRAME: 0040

ASSIGNMENT

This assignment agreement is applicable to an invention entitled (Invention Title)
SEMICONDUCTOR STRUCTURE AND MANUFACTURING METHOD THEREOF
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.
XU.S. patent application Serial No. 17/160,251 , filed January 27, 2021
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 COMPANY,
<u>LTD.</u>
(Address) 8, Li-Hsin Rd. 6, Hsinchu Science Park, Hsinchu 300-78, Taiwan, R.O.C.
The ASSIGNEE is:
(check one) ☐ An individual.
☐A Partnership.
☐ A Corporation of
(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.

PATENT REEL: 061844 FRAME: 0041

THIS IS PAGE 2 OF AN ASSIGNMENT FROM THE INVENTOR(S) TO ASSIGNEE: TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD.

INVENTION TITLE: SEMICONDUCTOR STRUCTURE AND MANUFACTURING METHOD THEREOF

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.

Ya-Chin CHIU	Ya-chin Chin	2020, 9, 10
Name of sole or first inventor	Signature	Date
Ming-Hsien LIN	Ming-Heien LIN	2020 C. 11
Name of second inventor, if any	Signature	Date
Chia-Tung HSU	Chia-Tung Msu	2020, 9, 10
Name of third inventor, if any	Signature	Date
Lun-Chieh CHIU	Luc- Ohish Chia	2020.9.21
Name of fourth inventor, if any	Signature	Date

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RECORDED: 11/21/2022