PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT4682894

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CHUN-AN LIN	10/31/2017
CHUN-HSIUNG LIN	10/31/2017
CHIA-TA YU	10/31/2017
SAI-HOOI YEONG	10/31/2017
CHING-FANG HUANG	10/31/2017
WEN-HSING HSIEH	10/31/2017

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:	15799385

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 DR. SUITE 300
Address Line 4:	PARK CITY, UTAH 84098

ATTORNEY DOCKET NUMBER:	T1516.10391US01
NAME OF SUBMITTER:	R. BURNS ISRAELSEN
SIGNATURE:	/R. Burns Israelsen, Reg. No. 42685/
DATE SIGNED:	11/09/2017

Total Attachments: 2

source=T1516.10391US01 Assignment#page1.tif

source=T1516.10391US01 Assignment#page2.tif

ASSIGNMENT

This assignment agreement is applicable to an invention entitled (Invention Title)
SEMICONDUCTOR DEVICE 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.

☒ U.S. patent application Serial No. 15/799,385 ,filed October 31, 2017

☐ a U.S. patent application based on PCT International Application No.______ filed 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:

(*check one*) ☒ U.S. patent rights only.

☐ Worldwide patent rights. In this case, the assignee shall have the right to claim the benefit of the filing date of any U.S. or foreign patent application for this invention.

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 TAIWAN, R.O.C. (*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.

NP-21103-US/P20171537US00

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

Chun-An LIN	Chun-An Lin	Oct 31, 2017
Name of sole or first inventor	Signature	Date
Chun-Hsiung LIN		Oct 31, 2017
Name of second inventor, if any	Signature	Date
Chia-Ta YU	Chia-Ta Yu	Oct 31, 2017
Name of third inventor, if any	Signature	Date
Sai-Hooi YEONG		Oct 31, 2017
Name of fourth inventor, if any	Signature	Date
Ching-Fang HUANG	Ching-Fang Huang	Oct 31, 2017
Name of fifth inventor, if any	Signature	Date
Wen-Hsing HSIEH	Wen-Hsing Hsieh	Oct 31, 2017
Name of sixth inventor, if any	Signature	Date