

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT7325878

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
HSI-WEN TIEN	12/08/2017
WEI-HAO LIAO	12/08/2017
PIN-REN DAI	12/08/2017
CHIH-WEI LU	12/08/2017
CHUNG-JU LEE	12/08/2017
RECEIVING PARTY DATA	
Name:	TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD.
Street Address:	8, LI-HSIN RD. 6, HSINCHU SCIENCE PARK
City:	HSINCHU
State/Country:	TAIWAN
Postal Code:	300-78
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	17740145
CORRESPONDENCE DATA	
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ATTORNEY DOCKET NUMBER:	T1516.10405US03
NAME OF SUBMITTER:	R. BURNS ISRAELSEN
SIGNATURE:	/R. Burns Israelsen/
DATE SIGNED:	05/11/2022
Total Attachments: 2	
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ASSIGNMENT

This assignment agreement is applicable to an invention entitled (Invention Title) _____
**MANUFACTURING TECHNIQUES AND DEVICES FOR MAGNETIC TUNNEL
JUNCTION DEVICES**

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. 15/825,972, filed November 29, 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.

THIS IS PAGE 2 OF AN ASSIGNMENT FROM THE INVENTOR(S) TO
 ASSIGNEE: TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD.
 INVENTION TITLE: MANUFACTURING TECHNIQUES AND DEVICES FOR
 MAGNETIC TUNNEL JUNCTION DEVICES

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.

Hsi-Wen TIEN

Name of sole or first inventor

Hsi-Wen Tien 2017 12.8

Signature

Date

Wei-Hao LIAO

Name of second inventor, if any

Wei-Hao Liao 2017 12/8

Signature

Date

Pin-Ren DAI

Name of third inventor, if any

Pin-Ren Dai 2017 / 12 / 8

Signature

Date

Chih-Wei LU

Name of fourth inventor, if any

Chih-Wei Lu 2017 12 / 8

Signature

Date

Chung-Ju LEE

Name of fifth inventor, if any

Chung-Ju Lee 2017 12 / 8

Signature

Date