

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5498889

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
KUO-AN LIU	04/15/2019
CHUNG-CHENG WU	04/15/2019
HARRY-HAK-LAY CHUANG	04/16/2019
GWAN-SIN CHANG	04/15/2019
TIEN-WEI CHIANG	04/16/2019
ZHIQIANG WU	04/15/2019
CHIA-HSIANG CHEN	04/22/2019
RECEIVING PARTY DATA	
Name:	TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD.
Street Address:	NO. 8, LI-HSIN RD. 6
Internal Address:	HSIN-CHU SCIENCE PARK
City:	HSIN-CHU
State/Country:	TAIWAN
Postal Code:	300-77
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16379901
CORRESPONDENCE DATA	
Fax Number:	(216)502-0601
<i>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.</i>	
Phone:	216-502-0600
Email:	docketing@eschweilerlaw.com
Correspondent Name:	ESCHWEILER & POTASHNIK, LLC
Address Line 1:	ROSETTA CENTER
Address Line 2:	629 EUCLID AVE., SUITE 1000
Address Line 4:	CLEVELAND, OHIO 44114
ATTORNEY DOCKET NUMBER:	TSMCP935US
NAME OF SUBMITTER:	DAVID W. POTASHNIK
SIGNATURE:	/David W. Potashnik/

PATENT

DATE SIGNED:	04/30/2019
Total Attachments: 9 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif source=Assignment#page4.tif source=Assignment#page5.tif source=Assignment#page6.tif source=Assignment#page7.tif source=Assignment#page8.tif source=Assignment#page9.tif	

PATENT ASSIGNMENT

PARTIES TO THE ASSIGNMENT

Assignor(s):

Kuo-An Liu

Assignor(s):

Chung-Cheng Wu

Assignor(s):

Harry-Hak-Lay Chuang

Assignor(s):

Gwan-Sin Chang

Assignor(s):

Tien-Wei Chiang

Assignor(s):

Zhiqiang Wu

Assignor(s):

Chia-Hsiang Chen

Assignee:

Taiwan Semiconductor Manufacturing Co., Ltd.
No. 8, Li-Hsin Rd. 6, Hsin-Chu Science Park
Hsin-Chu, Taiwan 300-77
Republic of China

AGREEMENT

WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled
"PROTECTION OF MRAM FROM EXTERNAL MAGNETIC FIELD USING MAGNETIC-
FIELD-SHIELDING STRUCTURE" for which:

a non-provisional application for United States Letters Patent:

☒ was executed on even date preparatory to filing (each inventor should sign this
Assignment on the same day as he/she signs the Declaration); or

☐ was filed on _____ and accorded U.S. Serial No. _____; or

☐ I hereby authorize and request my attorney associated with Customer No. 107476, to insert on the designated lines below the filing date and application number of said application when known:

U.S. Serial No. _____,

filed on _____.

WHEREAS, ASSIGNEE (listed above), a corporation of the Republic of China is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefore in the United States and in any and all foreign countries;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S) hereby sell, assign and transfer unto ASSIGNEE its successors and assigns, the entire right, title and interest in and to said invention and improvements, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues, re-examinations and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit and of their successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR(S) had this assignment, transfer and sale not been made. ASSIGNOR(S) hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNOR(S) agree to execute all instruments and documents required for the making and prosecution of applications for

TSMC Docket No. P20181825US01
Docket No. TSMCP935US

United States and foreign letters patent on said invention, for litigation regarding said letters patent, or for the purpose of protecting title to said invention or letters patent therefore.

April 15, 2019
Date

Kuo-An Liu
Name 1st Inventor Kuo-An Liu

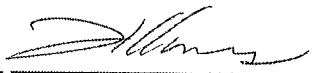
TSMC Docket No. P20181825US01
Docket No. TSMCP935US

4/15/19
Date

Chung-Cheng Wu
Name 2nd Inventor Chung-Cheng Wu

TSMC Docket No. P20181825US01
Docket No. TSMCP935US

2019/4/16
Date


Name 3rd Inventor Harry-Hak-Lay Chuang

TSMC Docket No. P20181825US01
Docket No. TSMCP935US

2019.4.15
Date

Gwan-Sin Chang
Name 4th Inventor Gwan-Sin Chang

TSMC Docket No. P20181825US01
Docket No. TSMCP935US

2019/04/16
Date

Tien Wei Chiang
Name 5th Inventor Tien-Wei Chiang

TSMC Docket No. P20181825US01
Docket No. TSMCP935US

4/15/2019
Date


Name 6th Inventor Zhiqiang Wu

TSMC Docket No. P20181825US01
Docket No. TSMCP935US

2019.4.22
Date

Chia-Hsiang Chen
Name 7th Inventor Chia-Hsiang Chen