# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
FA-SHEN JIANG	08/05/2020
CHENG-YUAN TSAI	08/10/2020
HAI-DANG TRINH	08/05/2020
HSING-LIEN LIN	08/05/2020
HSUN-CHUNG KUANG	08/05/2020
BI-SHEN LEE	08/05/2020

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### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	17855155

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DATE SIGNED:	06/30/2022

507364738 PATENT REEL: 060375 FRAME: 0130

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PATENT REEL: 060375 FRAME: 0131



## PATENT ASSIGNMENT

# **PARTIES TO THE ASSIGNMENT**

Assignor(s): Fa-Shen Jiang
Assignor(s): Cheng-Yuan Tsai
Assignor(s): Hai-Dang Trinh
Assignor(s): Hsing-Lien Lin
Assignor(s): Hsun-Chung Kuang
Assignor(s): Bi-Shen Lee
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
"RESISTIVE MEMORY CELL WITH SWITCHING LAYER COMPRISING ONE OR MORE
DOPANTS" 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	e and r	equest my	attorney	associated	with	Customer	No.
<u>107476</u> , to insert	on the d	esignated	lines belo	w the filing	date	and applica	ation
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

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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.

2020.8.5

Fa - Shen - Jiang
Name 1st Inventor Fa-Shen Jiang

8/10/20 Date

Name 2<sup>nd</sup> Inventor Cheng-Yuan Tsai

Aug/5 - 2020 Date

Name 3rd Inventor Hai-Dang Trinh

2020, of, of

Date

Name 4th Inventor Hsing-Lien Lin

8/5/20

Name 5<sup>th</sup> Inventor Hsun-Chung Kuang

Name 6<sup>th</sup> Inventor Bi-Shen Lee

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