

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT8008019

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
HAI-DANG TRINH	03/05/2020
CHII-MING WU	03/15/2020
CHENG-YUAN TSAI	03/06/2020
TZU-CHUNG TSAI	03/05/2020
FA-SHEN JIANG	03/05/2020
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Property Type	Number
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NAME OF SUBMITTER:	JIM REUTER
SIGNATURE:	/Jim Reuter/
DATE SIGNED:	06/15/2023

Total Attachments: 7

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PATENT ASSIGNMENT

PARTIES TO THE ASSIGNMENT

Assignor(s):

Hai-Dang Trinh

Assignor(s):

Chii-Ming Wu

Assignor(s):

Cheng-Yuan Tsai

Assignor(s):

Tzu-Chung Tsai

Assignor(s):

Fa-Shen Jiang

Assignee:

Taiwan Semiconductor Manufacturing Co., Ltd.
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AGREEMENT

WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled
"DATA STORAGE STRUCTURE FOR IMPROVING MEMORY CELL RELIABILITY" 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 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.

TSMC Docket No. P20191588US00
Docket No. TSMCP1102US

Mar 05 / 2020
Date

Hai Dang Trinh
Name 1st Inventor Hai-Dang Trinh

2020/3/15

Date

Chii-Ming Wu

Name 2nd Inventor Chii-Ming Wu

3/6/2020
Date

Cheng-Yuan Tsai
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3/5/2020
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Tzu-Cheng Tsai
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TSMC Docket No. P20191588US00
Docket No. TSMCP1102US

2020/03/05
Date

Fa-Shen Jiang
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