507641068 12/12/2022

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JUI-YU PAN	12/06/2016
CHENG-BO SHU	12/08/2016
CHUNG-JEN HUANG	12/06/2016
JING-RU LIN	12/06/2016
TSUNG-YU YANG	12/06/2016
YUN-CHI WU	12/06/2016
YUEH-CHIEH CHU	12/27/2016

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	18079039

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SIGNATURE:	/David W. Potashnik/	

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REEL: 062049 FRAME: 0559

DATE SIGNED:	12/12/2022
Total Attachments: 9	
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PATENT ASSIGNMENT

PARTIES TO THE ASSIGNMENT

<u>Assignor(s):</u> Jui-Yu Pan

Assignor(s): Cheng-Bo Shu

Assignor(s): Chung-Jen Huang

<u>Assignor(s):</u> Jing-Ru Lin

<u>Assignor(s):</u> Tsung-Yu Yang

<u>Assignor(s):</u> Yun-Chi Wu

<u>Assignor(s):</u> Yueh-Chieh Chu

<u>Assignee:</u>

Talwan 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

"METHOD TO FABRICATE UNIFORM TUNNELING DIELECTRIC OF EMBEDDED

FLASH MEMORY CELL" for which:

a non-provisional application for United States Letters Patent:

i 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. <u>107476</u>, 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 <u>the Republic of China</u> 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

Attachment 15a PATENT REEL: 062049 FRAME: 0562

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.

2016/12/06 Date

Jur - yu Pan

Name

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2016/12	108		chong-Bo sh	IИ
Date		Name 2 nd Inventor Cheng-Bo Shu		

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<u>>∘|6|> 06</u> Date

Chung-Jen Huang Name 3th Inventor Chung-Jen Huang

2016/12/6 Date

Jīng - Ru Līn 4th Inventor Jing-Ru Lin

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2016/12/6 CA. ANT Date

Tsung-Yu Yang

Name 5th Inventor Tsung-Yu Yang

20/6/12/6

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Name 6th Inventor Yun-Chi Wu

Date

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1/2/2016 Date

yuch-chi ۸

Name 7th Inventor Yueh-Chieh Chu

Jan 2008

RECORDED: 12/12/2022

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