11/13/2019 505770943

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MENG-HAN LIN	04/20/2018
CHIH-REN HSIEH	06/19/2018
YA-CHEN KAO	06/19/2018
CHEN-CHIN LIU	04/19/2018
CHIH-PIN HUANG	04/19/2018

RECEIVING PARTY DATA

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City:	HSIN-CHU
State/Country:	TAIWAN
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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16682210

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SIGNATURE:	/Matthew W. Glause/
DATE SIGNED:	11/13/2019

PATENT REEL: 050994 FRAME: 0637 505770943

Total Attachments: 7 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

PATENT REEL: 050994 FRAME: 0638

PATENT ASSIGNMENT

PARTIES TO THE ASSIGNMENT

Assignor(s): Meng-Han Lin
Assignor(s): Chih-Ren Hsieh
Assignor(s): Ya-Chen Kao
Assignor(s): Chen-Chin Liu
Assignor(s): Chih-Pin Huang
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
"CELL-LIKE FLOATING-GATE TEST 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

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number of said application when known:

U.S. Serial No.

filed on

107476, to insert on the designated lines below the filing date and application

PATENT REEL: 050994 FRAME: 0639

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.

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PATENT

REEL: 050994 FRAME: 0640

4/20 , 2018 Date

<u>Ulia / 2018</u> Date

Name 2nd Inventor Chih-Ren Hsle

4/19,2018

Date

Ya-Chen kao

Name 3rd Inventor Ya-Chen Kad

4/19/2018

Name 4th Inventor Chen-Chin Liu

4.19.2018 Date

Name 5th Inventor Chih-Pin Huang

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RECORDED: 11/13/2019