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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SEIJI TAKAHASHI	03/29/2019
CHEN-JONG WANG	03/29/2019
DUN-NIAN YAUNG	03/28/2019
JUNG-I LIN	02/14/2019
JHY-JYI SZE	04/01/2019
ALEXANDER KALNITSKY	03/31/2019
YIMIN HUANG	03/31/2019
KING LIAO	04/02/2019
SHEN-HUI HONG	04/02/2019

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16365904

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NAME OF SUBMITTER:	MATTHEW W. GLAUSE
SIGNATURE:	/Matthew W. Glause/
DATE SIGNED:	04/22/2019
Total Attachments: 11	
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PATENT ASSIGNMENT

PARTIES TO THE ASSIGNMENT

Assignor(s): Seiji Takahashi

Assignor(s): Chen-Jong Wang

Assignor(s): Dun-Nian Yaung

Assignor(s): Jung-I Lin

<u>Assignor(s):</u> Jhy-Jyi Sze

Assignor(s): Alexander Kalnitsky

Assignor(s): Yimin Huang

Assignor(s): King Liao

<u>Assignor(s):</u> Shen-Hui Hong

<u> Assignee:</u>

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

"HIGH DENSITY MIM CAPACITOR 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

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	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 ASSIGNOR(S) agree to execute all

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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.

 $\frac{3/29/2019}{\text{Date}}$

Name 1st Inventor Seiji Takahashi

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3/29/20/9

Date

Name 2nd Inventor Chen-Jong Wang

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Date

Name

3rd Inventor Dun-Nian Yau

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2019/4/2

Tung -7 Lin

Name 4th Inventor Jung-I Lin

Date 9,04/01

Name 5th Inventor Jhy-Jyi Sze

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3/3//20/9 Date

Name 6th Inventor Alexander Kalnitsky

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Date

Name 7th Inventor Yimin Huang

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Name 8th Inventor King L

2019/04/02

Date

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