504614804 10/27/2017 PATENT ASSIGNMENT COVER SHEET

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10/17/2017

10/18/2017

10/17/2017

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
PO-HAN HUANG		10/18/2017
CHIEN NAN TU		10/18/2017
CHI-YUAN WEN		10/18/2017

MING-CHI WU

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RECEIVING	PARTY	DATA	

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15716714

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ATTORNEY DOCKET NUMBER:	TSMCP770US
NAME OF SUBMITTER:	DAVID W. POTASHNIK
SIGNATURE:	/David W. Potashnik/
DATE SIGNED:	10/27/2017

Total Attachments: 8	
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(LL)

PATENT ASSIGNMENT

PARTIES TO THE ASSIGNMENT

Assignor(s): Po-Han Huang

<u>Assignor(s):</u> Chien Nan Tu

<u>Assignor(s):</u> Chi-Yuan Wen

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

Assignor(s): Yu-Lung Yeh

Assignor(s): Hsin-Yi Kuo

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

"QE APPROACH BY DOUBLE-SIDE, MULTI ABSORPTION 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. <u>107476</u>, to insert on the designated lines below the filing date and application number of said application when known:

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PATENT^{15a} REEL: 043968 FRAME: 0281

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 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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REEL: 043968 FRAME: 0282

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2019.10.18 Date

TSMC Docket No. P20160622US00 Docket No. TSMCP770US

Po-Han Hurang

Name 1st Inventor Po-Han Huang

Page 3 of 8

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> PATENT^{Attachment 15a} REEL: 043968 FRAME: 0283

Jan 2008

<u>2-0(7.</u> 10.1₽ Date

Chien Nan Tu

Name 2nd Inventor Chien Nan Tu

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Jan 2008

<u>2017, 10, 18</u> Date

Wen Chi-Yuan

Name 3rd Inventor Chi-Yuan Wen

Page 5 of 8

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2011; 1.19

Ming Chi Wu.

Name 4th Inventor Ming-Chi Wu

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Date

Page 6 of 8

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Jan 2008

7017, 10,18 Date

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Name 5th Inventor Yu-Lung Yeh



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Date

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Name 6th Inventor Hsin-Yi Kuo

Jan 2008

RECORDED: 10/27/2017

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