505527636 06/17/2019

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5574442

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HARRY-HAK-LAY CHUANG	06/13/2019
MING CHYI LIU	06/06/2019
SHIH-CHANG LIU	06/06/2019

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16387720

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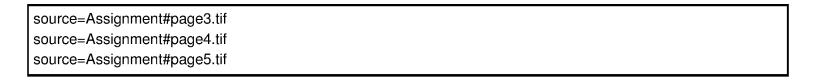
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NAME OF SUBMITTER:	DAVID W. POTASHNIK	
SIGNATURE:	/David W. Potashnik/	
DATE SIGNED:	06/17/2019	

Total Attachments: 5

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> **PATENT** REEL: 049481 FRAME: 0632 505527636



PATENT REEL: 049481 FRAME: 0633

PATENT ASSIGNMENT

PARTIES TO THE ASSIGNMENT

Assignor(s):
Harry-Hak-Lay Chuang
Assignor(s):
Ming Chyl Liu

<u>Assignor(s):</u> Shih-Chang Liu

Assignee:
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Republic of China

AGREEMENT

WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled "BOUNDARY STRUCTURE FOR EMBEDDED MEMORY" 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 Page 1 of 5

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TSMC Docket No. P20183862US01 Docket No. TSMCP1001US

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.

ITSMC Property

TSMC Docket No. P20183862US01 Docket No. TSMCP1001US

2019/6/13

Name 1st Inventor Harry-Hak-Lay Chuang

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TSMC Property
TSMC Docket No. P20 83862US01
Docket No. TSMCP1001US

70[9/6/6 Date

Name

e 2nd Inventor Ming Chyi Liu

TSMC Docket No. P20183862US01 Docket No. TSMCP1001US

2019.06.06 Date

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RECORDED: 06/17/2019