505835450 12/23/2019

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CHIA-HAO PAO	04/17/2018
KIAN-LONG LIM	04/17/2018
FENG-MING CHANG	04/17/2018
LIEN-JUNG HUNG	04/17/2018

RECEIVING PARTY DATA

Name:	TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD
Street Address:	NO. 8, LI-HSIN RD. 6, HSINCHU SCIENCE PARK
City:	HSINCHU
State/Country:	TAIWAN
Postal Code:	300-78

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16725409

CORRESPONDENCE DATA

Fax Number: (404)521-4286

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Email: dan.mcclure@mqrlaw.com

Correspondent Name: MCCLURE, QUALEY & RODACK, LLP
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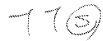
ATTORNEY DOCKET NUMBER:	252011-7291
NAME OF SUBMITTER:	DANIEL R. MCCLURE
SIGNATURE:	/Daniel R. McClure/
DATE SIGNED:	12/23/2019

Total Attachments: 2

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PATENT 505835450 REEL: 051357 FRAME: 0829

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ASSIGNMENT

WHEREAS, Chia-Hao PAO, Kian-Long LIM, Feng-Ming CHANG and Lien-Jung HUNG hereafter referred to as ASSIGNOR, has/have invented certain new and useful improvements as described and set forth in the below identified application for United States Letters Patent:

Title: STRAP CELL DESIGN FOR STATIC RANDOM ACCESS MEMORY (SRAM)

ARRAY		
Filed:	Serial No.	
Executed on:		***************************************

WHEREAS, <u>Taiwan Semiconductor Manufacturing Co., Ltd.</u>, of <u>No. 8, Li-Hsin Rd. 6, Hsinchu Science Park, Hsinchu 300-78, Taiwan R.O.C.</u>, hereinafter referred to as ASSIGNEE, is desirous of acquiring ASSIGNOR'S interest in the said invention and application and in any U.S. Letters Patent which may be granted on the same;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, receipt of which is hereby acknowledged by Assignor, Assignor has/have sold, assigned and transferred, and by these presents does/do sell, assign and transfer unto the said Assignee, and Assignee's successors and assigns, all his/her/their rights, title and interest in and to the said invention and application and all future improvements thereon, and in and to any Letters Patent which may hereafter be granted on the same in the United States, the said interest to be held and enjoyed by said Assignee as fully and exclusively as it would have been held and enjoyed by said Assignor had this Assignment and transfer not been made, to the full end and term of any Letters Patent which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignor further agrees/agree that he/she/they will, without charge to said Assignee, but at Assignee's expense, cooperate with Assignee in the prosecution of said application and/or applications, execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof, and will perform such other acts as Assignee lawfully may request, to obtain or maintain Letters Patent for said invention and improvement, and to vest title thereto in said Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignor has/have signed his/her/their name(s) on the date(s) indicated.

ASSIGNMENT

2018_04,17	Mia-Hoo PaO
Date	Name: Chia-Hao PAO
2018.04.17	449
Date	Name: Kian-Long LIM
2018, 54, 17 Date	Name: Feng-Ming CHANG
<u>Jols. 4. 17.</u> Date	Van-Jung Hung Name: Lien-Jung HUNG
Date	Name: Lien-Jung HUNG ^v