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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 |
| MILL-JER WANG | 08/20/2019 |
| TANG-JUNG CHIU | 08/20/2019 |
| CHI-CHANG LAI | 08/20/2019 |
| CHIA-HENG TSAI | 08/20/2019 |
| MIRNG-JI LII | 08/22/2019 |
| WEII LIAO | 08/20/2019 |
| RECEIVING PARTY DATA | |
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| Street Address: | NO. 8, LI-HSIN RD. 6 |
| Internal Address: | HSINCHU SCIENCE PARK |
| City: | HSINCHU |
| State/Country: | TAIWAN |
| Postal Code: | 300-78 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 16548183 |
| CORRESPONDENCE DATA | |
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| NAME OF SUBMITTER: | DANIEL R. MCCLURE |
| SIGNATURE: | /Daniel R. McClure/ |
| DATE SIGNED: | 09/11/2019 |

PATENT

Total Attachments: 2

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ASSIGNMENT

WHEREAS, Mill-Jer WANG, Tang-Jung CHIU, Chi-Chang LAI, Chia-Heng TSAI, Mirng-Ji LII and Weii LIAO

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: SEMICONDUCTOR DEVICE STRUCTURE WITH MAGNETIC ELEMENT IN TESTING REGION

Filed: _____ Serial No. _____
 Executed on: _____

WHEREAS, Taiwan Semiconductor Manufacturing Co., Ltd., of No. 8, Li-Hsin Rd. 6, Hsinchu Science Park, Hsinchu 300-78, Taiwan R.O.C., 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

2019/8/20
Date
Mitt-Jer Wang
Name: Mitt-Jer WANG

2019/8/20
Date
Tang-Jung Chiu
Name: Tang-Jung CHIU

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Date
chi-chang LAI
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Date
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Name: Ming-Ji LII

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Name: Wei LIAO