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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 |
| HSUAN-CHUN TSENG | 01/19/2018 |
| HSUEH-CHUN HSIAO | 01/19/2018 |
| TZU-YUN CHANG | 01/19/2018 |
| CHI-CHENG HUANG | 01/19/2018 |
| PING-CHIA SHIH | 01/19/2018 |
| RECEIVING PARTY DATA | |
| Name: | UNITED MICROELECTRONICS CORP. |
| Street Address: | NO. 3, LI-HSIN RD. II, SCIENCE-BASED INDUSTRIAL PARK |
| City: | HSINCHU |
| State/Country: | TAIWAN |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 15878278 |
| CORRESPONDENCE DATA | |
| Fax Number: | (949)660-0809 |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> | |
| Phone: | 949660761 |
| Email: | jcpatents@gmail.com |
| Correspondent Name: | J.C. PATENTS |
| Address Line 1: | 4 VENTURE, SUITE 250 |
| Address Line 4: | IRVINE, CALIFORNIA 92618 |
| ATTORNEY DOCKET NUMBER: | JCLA74682 |
| NAME OF SUBMITTER: | JIawei HUANG |
| SIGNATURE: | /JIawei HUANG/ |
| DATE SIGNED: | 01/23/2018 |
| This document serves as an Oath/Declaration (37 CFR 1.63). | |
| Total Attachments: 7 | |
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**DECLARATION AND ASSIGNMENT
FOR UTILITY OR DESIGN PATENT APPLICATION**

Declaration Submitted With Initial Filing

OR

Declaration Submitted After Initial Filing (surcharge 37 CFR 1.16(f) required)

(Title of the Invention)

**SEMICONDUCTOR DEVICE AND MANUFACTURING MEHOD
THEREOF**

As a below named inventor (hereinafter designated as the undersigned), I hereby declare that:

This declaration is directed to:

The attached application,

OR

United States Application Number or PCT International application number

_____ Filed on _____

The above-identified application was made or authorized to be made by me.

I believe I am the original inventor or an original joint inventor of a claimed invention in the application.

The undersigned hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

**DECLARATION AND ASSIGNMENT
FOR UTILITY OR DESIGN PATENT APPLICATION**

WHEREAS, the undersigned has invented certain new and useful improvements described in the application identified.

WHEREAS 1. United Microelectronics Corp.
of No. 3, Li-Hsin Rd. II, Science-Based Industrial Park, Hsinchu, Taiwan,
R.O.C.

hereinafter referred to as ASSIGNEE, is desirous of acquiring the undersigned'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 the undersigned, the undersigned 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 rights, title and interest to be held and enjoyed by said Assignee as fully and exclusively as it would have been held and enjoyed by said the undersigned 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.

The undersigned 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.

The undersigned hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

UMCD-2017-0661
74682-US-PA

**DECLARATION AND ASSIGNMENT
FOR UTILITY OR DESIGN PATENT APPLICATION**

Hsuan-Chun Tseng
Signature: Hsuan-CHun Tseng Date: JAN 19 2018

Legal Name of Sole or First Inventor: Hsuan-Chun Tseng

Residence: Taipei City, Taiwan

Mailing Address: 5F., No.4, Aly. 10, Ln. 10, Keqiang Rd., Shilin Dist., Taipei City 111, Taiwan
(R.O.C.)

UMCD-2017-0661
74682-US-PA

**DECLARATION AND ASSIGNMENT
FOR UTILITY OR DESIGN PATENT APPLICATION**

Signature: 蔡學均 Hsueh Chun Hsiao Date: JAN 19 2018

Legal Name of Additional Joint Inventor, if any: Hsueh-Chun Hsiao

Residence: Hsinchu County, Taiwan

Mailing Address: No.35, Lanzhou S. St., Hukou Township, Hsinchu County 303, Taiwan (R.O.C.)

UMCD-2017-0661
74682-US-PA

**DECLARATION AND ASSIGNMENT
FOR UTILITY OR DESIGN PATENT APPLICATION**

Signature: Tzu Yun Chang Date: JAN 19 2018

Legal Name of Additional Joint Inventor, if any: Tzu-Yun Chang

Residence: Hsinchu County, Taiwan

Mailing Address: No.6, Lane 359, Jhongjheng Rd., Sinpu Township, Hsinchu County 305, Taiwan
(R.O.C.)

UMCD-2017-0661
74682-US-PA

**DECLARATION AND ASSIGNMENT
FOR UTILITY OR DESIGN PATENT APPLICATION**

Signature: Chi-Cheng Huang Date: JAN 19 2018

Legal Name of Additional Joint Inventor, if any: Chi-Cheng Huang

Residence: Kaohsiung City, Taiwan

Mailing Address: No.1, Aly. 9, Ln. 200, Yongren St., Renwu Dist., Kaohsiung City 814, Taiwan
(R.O.C.)

UMCD-2017-0661
74682-US-PA

**DECLARATION AND ASSIGNMENT
FOR UTILITY OR DESIGN PATENT APPLICATION**

Signature: Ping Chia Shih Date: JAN 19 2018

Legal Name of Additional Joint Inventor, if any: Ping-Chia Shih

Residence: Tainan City, Taiwan

Mailing Address: No.2, Ln. 16, Jiankang 1st St., Anping Dist., Tainan City 708, Taiwan (R.O.C.)