

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
SHANG-WEI FANG	01/04/2018
JING-SEN WANG	01/04/2018
YUAN-YAO CHANG	01/04/2018
WEI-RAY LIN	01/04/2018
TING-HUA HSIEH	01/05/2018
PEI-HSUAN LEE	01/04/2018
YU-HSUAN HUANG	01/04/2018
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<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15855080
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<b>SIGNATURE:</b>	/Daniel R. McClure/
<b>DATE SIGNED:</b>	01/13/2018

PATENT

**Total Attachments: 2**

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## ASSIGNMENT

WHEREAS, Shang-Wei FANG, Jing-Sen WANG, Yuan-Yao CHANG, Wei-Ray LIN, Ting-Hua HSIEH, Pei-Hsuan LEE, and Yu-Hsuan HUANG

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: **OVERLAY ERROR AND PROCESS WINDOW METROLOGY**

Filed: 2017-12-27

Serial No. 15/855,080

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, reissuc, 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 reissuc 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

2018/1/4 Shang-Wei Fang  
Date Name: Shang-Wei FANG

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Date Name: Jing-Sen WANG

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Date Name: Yuan-Yao CHANG

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