

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
KUN-MU LI	08/20/2018
WEI-YANG LEE	08/20/2018
WEN-CHU HSIAO	08/20/2018
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:	16101897
CORRESPONDENCE DATA	
Fax Number:	(703)205-8050
<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:	7032058000
Email:	christopher.smith@bskb.com, mailroom@bskb.com
Correspondent Name:	BIRCH STEWART KOLASCH & BIRCH LLP
Address Line 1:	8110 GATEHOUSE ROAD, SUITE 100E
Address Line 4:	FALLS CHURCH, VIRGINIA 22042
ATTORNEY DOCKET NUMBER:	0941-3629PUS2
NAME OF SUBMITTER:	CHRISTOPHER SMITH
SIGNATURE:	/Christopher Smith/
DATE SIGNED:	08/30/2018
Total Attachments: 2	
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ASSIGNMENT

WHEREAS, Kun-Mu LI, Wei-Yang LEE and Wen-Chu HSIAO
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 STRUCTURE WITH BLOCKING LAYER AND METHOD
FOR FORMING THE SAME**

Filed: August 13, 2018 Serial No. 16101897
Executed on: August 20, 2018

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

2018.8.20 Kun-Mu LI
 Date Name: Kun-Mu LI

2018/08/20 Wei-Yang LEE
 Date Name: Wei-Yang LEE

2018/08/20 Wen-Chu HSIAO
 Date Name: Wen-Chu HSIAO