

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
HUNG-HAO CHEN	06/22/2015
YU-SHU CHEN	06/22/2015
YU-CHENG LIU	06/22/2015
RECEIVING PARTY DATA	
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City:	HSIN-CHU
State/Country:	TAIWAN
Postal Code:	300-77
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14789337
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NAME OF SUBMITTER:	TUYET ANH NGUYEN
SIGNATURE:	/TUYET ANH NGUYEN/
DATE SIGNED:	07/01/2015
Total Attachments: 2	
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ASSIGNMENT

WHEREAS, Hung-Hao CHEN, Yu-Shu CHEN, and Yu-Cheng LIU
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: **METHOD FOR FORMING SEMICONDUCTOR DEVICE STRUCTURE WITH
FINE LINE PITCH AND FINE END-TO-END SPACE**

Filed: July 1, 2015 Serial No. 14/789,337

Executed on: June 22, 2015

WHEREAS, Taiwan Semiconductor Manufacturing Co., Ltd. of No.8, Li-Hsin Road. 6,
Science-Based Industrial Park, Hsin-Chu, Taiwan 300-77, 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.

SN: 14/789,337
Filed on July 1, 2015

Attorney Docket No.: 0941-3147PUS2

ASSIGNMENT

2015.06.22 Hung Hao Chen
Date Name: Hung-Hao CHEN (Last name: CHEN)

2015.06.22 Yu-Shu Chen
Date Name: Yu-Shu CHEN (Last name: CHEN)

2015.06.22 Yu-cheng Liu
Date Name: Yu-Cheng LIU (Last name: LIU)