503255941 04/08/2015

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JHON JHY LIAW	03/30/2015

RECEIVING PARTY DATA

Name:	: TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD.	
Street Address:	Street Address: NO. 8, LI-HSIN RD. VI, HSINCHU SCIENCE PARK	
City:	HSINCHU	
State/Country:	TAIWAN	
Postal Code:	300	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14666444

CORRESPONDENCE DATA

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using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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Correspondent Name: LOWE HAUPTMAN & HAM, LLP (TSMC)

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ATTORNEY DOCKET NUMBER:	ET NUMBER: T5057-1133	
NAME OF SUBMITTER:	RANDY A. NORANBROCK	
SIGNATURE:	/Randy A. Noranbrock/	
DATE SIGNED:	04/08/2015	

Total Attachments: 1

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PATENT REEL: 035362 FRAME: 0299 503255941

Docket No. T5057-1133 P20141006US00

ASSIGNMENT

In consideration of the premises and other good and valuable consideration in hand paid, the receipt and sufficiency of which is hereby acknowledged, the undersigned,

1) Jhon Jhy LIAW

who has made a certain new and useful invention, hereby sells, assigns and transfers unto TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD., having a place of business at No. 8, Li-Hsin Rd. VI, Hsinchu Science Park, Hsinchu 300, Taiwan R.O.C.

its successors and assigns (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled

SEMICONDUCTOR DEVICE, SEMICONDUCTOR DEVICE LAYOUT, AND METHOD OF MANUFACTURING SEMICONDUCTOR DEVICE

(a)	for which an application for United States Letters Patent was filed on 2015-03-24, and identified by United States Patent Application No. 14/666,444; or
(b)	for which an application for United States Letters Patent was executed on,
all Unite continua	undersigned hereby authorizes and requests the United States Commissioner of Patents and Trademarks to issue any and states Letters Patent which may be granted therefore and any and all extensions, divisions, reissues, continuations, or tions-in-part thereof, and the right to all benefits under the International Convention for the Protection of Industrial to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned

AND the undersigned hereby agrees to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

SIGNED on the date indicated aside my signature: 1) Then Thy Law	Mar. 30, 2015
Name: Jhon Jhy LIAW	Date:

agrees that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE;

PATENT REEL: 035362 FRAME: 0300

RECORDED: 04/08/2015