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SUBMISSION TYPE:		NEW ASSIGNMENT			
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT		
CONVEYING PARTY DA	ТА				
		Name	Execution Date		
YEN-JEN CHEN			06/23/2015		
CHI-FENG HUANG			06/26/2015		
HSIAO-CHUN LEE	06/25/2015				
HSIEH-HUNG HSIEH	06/23/2015				
TZU-JIN YEH			06/23/2015		
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Name:	TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD.				
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State/Country:	TAIWAN				
Postal Code:	300				
PROPERTY NUMBERS Property Type	Total: 1	Number			
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Application Number:	ATA				
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Total Attachments: 1

PATENT REEL: 035968 FRAME: 0592 chereyjd, 2015/06/23-14:31:38

Docket No. P20141284US00 T5057-1150

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)	Yen-Jen CHEN	4)	Hsieh-Hung HSIEH

2) Chi-Feng HUANG 5) Tza-Jin YEH

3) Hsiao-Chun LEE

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 WITH GUARD RING COUPLED RESONANT CIRCUIT

for which an application for United States Letters Patent was filed on _____2015-02-25 (a), and identified by United States Patent Application No. 14/630,946

(b)for which an application for United States Letters Patent was executed on

and the undersigned hereby authorizes and requests the United States Commissioner of Patents and Trademarks to issue any and all United States Letters Patent which may be granted therefore and any and all extensions, divisions, reissues, continuations, or continuations-in-part thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agrees that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE;

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) <u>Ven-Jen Chen</u> Name: Yen-Jen CHEN 2) Chi - Fert Sucary Name: Chi-Feng HUANG 3) H(D. o - Chuin V 20-Name: Hsiao-Chun LEE 4) Jik My Dh 专行物

Name: Tzu-Jin YEH

 $\frac{>>15/~6/\gamma}{\text{Date:}}$

2015/06/25

Date:

______/015/06/

Julie 23, 2014

Date

PATENT REEL: 035968 FRAME: 0593

RECORDED: 07/02/2015