

## PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>TAO WEN CHUNG</td> <td>11/22/2011</td> </tr> <tr> <td>CHAN-HONG CHERN</td> <td>11/22/2011</td> </tr> <tr> <td>MING-CHIEH HUANG</td> <td>11/22/2011</td> </tr> <tr> <td>CHIH-CHANG LIN</td> <td>11/22/2011</td> </tr> <tr> <td>YUWEN SWEI</td> <td>11/22/2011</td> </tr> </tbody> </table>		Name	Execution Date	TAO WEN CHUNG	11/22/2011	CHAN-HONG CHERN	11/22/2011	MING-CHIEH HUANG	11/22/2011	CHIH-CHANG LIN	11/22/2011	YUWEN SWEI	11/22/2011
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RECEIVING PARTY DATA													
Name:	TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD.												
Street Address:	NO. 8, LI-HSIN RD. VI												
Internal Address:	HSINCHU SCIENCE PARK												
City:	HSINCHU												
State/Country:	TAIWAN												
Postal Code:	300												
PROPERTY NUMBERS Total: 1													
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>14088521</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14088521								
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Application Number:	14088521												
CORRESPONDENCE DATA													
Fax Number:													
Phone:	7036841111												
Email:	tsmc@ipfirm.com												
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>													
Correspondent Name:	LOWE HAUPTMAN & HAM, LLP (TSMC)												
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Address Line 2:	SUITE 1400												
Address Line 4:	ALEXANDRIA, VIRGINIA 22314												
ATTORNEY DOCKET NUMBER:	T5057-605A												

OP \$40.00 14088521

NAME OF SUBMITTER:	RANDY A. NORANBROCK
Signature:	/Randy A. Noranbrock/
Date:	11/25/2013
Total Attachments: 2 source=efiledassgn#page1.tif source=efiledassgn#page2.tif	

Docket No. T5057-605

### 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) Tao Wen CHUNG
- 2) Chan-Hong CHERN
- 3) Ming-Chieh HUANG
- 4) Chih-Chang LIN
- 5) Yuwen SWEI

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

### AMPLIFIER INDUCTOR SHARING FOR INDUCTIVE PEAKING

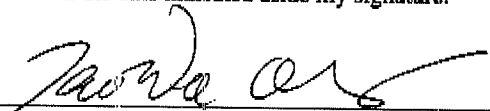
(a) for which an application for United States Letters Patent was filed on 2011-12-06, and identified by United States Patent Application No. 13/312,228; or

(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)   
Name: Tao Wen CHUNG

11/22/2011  
Date:

2)   
Name: Chan-Hong CHERN

11/22/2011  
Date:

3)   
Name: Ming-Chieh HUANG

11/22/2011  
Date:

4) Chih-Chang LIN  
Name: Chih-Chang LIN

11/22/2011  
Date:

5) Yuywen SWEI  
Name: Yuywen SWEI

11/22/11  
Date: