

PATENT ASSIGNMENT

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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>Chan-Hong CHERN</td> <td>02/18/2010</td> </tr> <tr> <td>Fu-Lung HSUEH</td> <td>02/26/2010</td> </tr> <tr> <td>Chiang PU</td> <td>02/18/2010</td> </tr> <tr> <td>Chih-Chang LIN</td> <td>02/18/2010</td> </tr> </tbody> </table>		Name	Execution Date	Chan-Hong CHERN	02/18/2010	Fu-Lung HSUEH	02/26/2010	Chiang PU	02/18/2010	Chih-Chang LIN	02/18/2010
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Chih-Chang LIN	02/18/2010										
RECEIVING PARTY DATA											
Name:	TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD.										
Street Address:	No. 8, Li-Hsin Rd. VI, 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>12706825</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12706825						
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Application Number:	12706825										
CORRESPONDENCE DATA											
Fax Number:	(703)518-5499										
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NAME OF SUBMITTER:	Yoon S. Ham										
Total Attachments: 1											

OP \$40.00 12706825

501164515

**PATENT
 REEL: 024323 FRAME: 0297**

TSMC 2009-0694 US
Docket No. T5057-Y197

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) Chan-Hong CHERN
- 2) Fu-Lung HSUEH
- 3) Chiang PU
- 4) Chih-Chang LIN

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, Taiwan 300, 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

INTEGRATED CIRCUITS INCLUDING AN LC TANK CIRCUIT AND OPERATING
METHODS THEREOF

- (a) for which an application for United States Letters Patent was filed on 2-17-10 and identified by United States Patent Application No. 12/706,825; or
- (b) for which an application for United States Letters Patent was executed on _____,

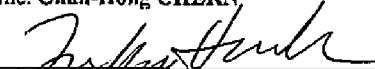
and the undersigned hereby authorizes and requests the United States Commissioner of Patents and Trademarks to issue any and all United States Letters Patent which may be granted therefore and any and all extensions, divisions, reissues, continuations, or continuations-in-part thereof, and the right 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:


Name: Chan-Hong CHERN

2/18/2010
Date:

2) 
Name: Fu-Lung HSUEH

Feb 26, 2010
Date:

3) 
Name: Chiang PU

2/18/2010
Date:

4) 
Name: Chih-Chang LIN

2/18/2010
Date: