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1. Name of conveying party(ies): Gu-Huan Li Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies) Name: Taiwan Semiconductor Manufacturing Co., Ltd. Internal Address: _____ Street Address: <u>No. 8, Li-Hsin Road 6</u> <u>Science Based Industrial Park</u> City: <u>Hsin-Chu</u> State: <u>Taiwan</u> Zip: <u>300-77</u> Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____ Execution Date: <u>November 18, 2008</u>		
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: <u>November 20, 2008</u> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> A. Patent Application No.(s) <u>12/275,084</u> </div> <div style="width: 45%;"> B. Patent No.(s) _____ </div> </div> Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>Howard Chen, Esq.</u> Internal Address: _____ _____ Street Address: <u>K&L Gates LLP</u> <u>4 Embarcadero Center, Suite 1200</u> City: <u>San Francisco</u> State: <u>CA</u> Zip: <u>94111</u>	6. Total number of applications and patents involved: <u>1</u> 7. Total fee (37 CFR 3.41) \$ <u>40.00</u> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account 8. Deposit account number: <u>50-3229</u>	
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9. Signature: <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="width: 30%;"> <u>Howard Chen, Esq.</u> <u>Reg. No. 46,615</u> Name of Person Signing </div> <div style="width: 30%; text-align: center;">  Signature </div> <div style="width: 30%; text-align: right;"> <u>11/20/2008</u> Date </div> </div> <div style="text-align: center; margin-top: 10px;"> Total number of pages including cover sheet, attachments, and documents: _____ </div>		

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CH \$40.00 503229 12275084

Patent Attorney Docket No.: TSMC2007-0816

Attorney Reference No.: 52604-00318

ASSIGNMENT AND AGREEMENT

For value received, I/we **GU-HUAN LI**, hereby equally sell, assign and transfer to **Taiwan Semiconductor Manufacturing Co., Ltd.**, with its principal place of business located at No. 8, Li-Hsin Road 6, Science-Based Industrial Park, Hsin-Chu, Taiwan 300-77, Republic of China, and their successors, assigns and legal representatives, the entire right, title and interest, for the United States of America, in and to certain inventions related to **LOW POWER ONE-SHOT BOOST CIRCUIT** described in U.S. Application Number **12/275,084** for Letters Patent of the United States filed on **November 20, 2008** and all the rights and privileges in said application and under any and all Letters Patent and any divisions, continuations, continuations-in-part, reexamination certificates, reissues, and extensions thereof that may be granted in the United States for said inventions; and I/we also concurrently hereby sell, assign and transfer to **Taiwan Semiconductor Manufacturing Co., Ltd.** the entire right, title and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.

I/We authorize **Taiwan Semiconductor Manufacturing Co., Ltd.** to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from me/us, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

I/We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of **Taiwan Semiconductor Manufacturing Co., Ltd.** to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

I/We request that any and all patents for said inventions be issued to **Taiwan Semiconductor Manufacturing Co., Ltd.** in the United States and in all countries foreign to the United States, or to such nominees as **Taiwan Semiconductor Manufacturing Co., Ltd.** may designate.

Parent Attorney Docket No.: TSMC2007-0816

Attorney Reference No.: 52604-00318

I/We agree that, when requested, I/we shall, without charge to Taiwan Semiconductor Manufacturing Co., Ltd. but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.

Inventor No. 1:Dated: 2008, 11, 19Gu-Huan Li
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In Re: U.S. Patent Appln. No.: 12/275,084

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