

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Ker-Min Chen	06/29/2007
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	Taiwan Semiconductor Manufacturing Company, Limited.
<b>Street Address:</b>	No.8 Li-Hsin Road 6, Science Based Industrial Park
<b>City:</b>	Hsin-Chu
<b>State/Country:</b>	TAIWAN
<b>Postal Code:</b>	300-77
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	11779233
<b>CORRESPONDENCE DATA</b>	
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<b>Correspondent Name:</b>	Howard Chen, Esq. K&L Gates, LLP
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<b>ATTORNEY DOCKET NUMBER:</b>	52604-00227
<b>NAME OF SUBMITTER:</b>	Howard Chen, Esq.
<b>Total Attachments: 2</b> source=5260400227assignment#page1.tif source=5260400227assignment#page2.tif	

CH \$40.00 11779233

**ASSIGNMENT AND AGREEMENT**

For value received, I/we **Ker-Min Chen**, 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 **METHOD FOR AUTOMATICALLY ROUTING MULTI-VOLTAGE MULTI-PITCH METAL LINES** described in U.S. Application Number 11/779,233 for Letters Patent of the United States filed on July 17, 2007 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.

Patent Attorney Docket No.: TSMC2007-0143

Attorney Reference No.: 52604-00227

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: 2007. 6. 29

Ker-Min Chen  
Ker-Min Chen

Mailing and Residence: 5F., No. 1, Alley 7, Lane 384, Sec. 1, Jhonghua Rd., Hsinchu City 300, Taiwan (R.O.C.)

Citizenship: Taiwan

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RECORDED: 07/19/2007

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REEL: 019578 FRAME: 0204