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**Chih-Sheng Tsai and Chung-Hsing Wang**  
Additional name(s) of conveying party(ies) attached?  Yes  No

2. Name and address of receiving party(ies)  
Name: **Taiwan Semiconductor Manufacturing Co., Ltd.**  
Internal Address: \_\_\_\_\_  
Street Address: **No. 8, Li-Hsin Road 6**  
**Science Based Industrial Park**  
City: Hsin-Chu \_\_\_\_\_ State: Taiwan Zip: **300-77**  
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 Yes  No


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Execution Date: **May 8, 2008**

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: **May 12, 2008**  
A. Patent Application No.(s) **12/119,255** B. Patent No.(s) \_\_\_\_\_  
Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:  
Name: **Howard Chen, Esq.**  
Internal Address: \_\_\_\_\_  
Street Address: **Kirkpatrick & Lockhart Preston Gates Ellis LLP**  
**55 Second Street, Suite 1700**  
City: **San Francisco** State: CA Zip: **94105**

6. Total number of applications and patents involved: **1**  
7. Total fee (37 CFR 3.41) .....\$ **40.00**  
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**Howard Chen, Esq.** **5/12/2008** Date  
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Patent Attorney Docket No.: TSMC2007-0668

Attorney Reference No.: 52604-00296

**ASSIGNMENT AND AGREEMENT**

For value received, I/we **Chih-Sheng Tsai and Chung-Hsing Wang**, 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 **PAD STRUCTURE FOR 3D INTEGRATED CIRCUIT** described in U.S. Application Number 12/119,255 for Letters Patent of the United States filed on May 12, 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.

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.

Patent Attorney Docket No.: TSMC2007-0668

Attorney Reference No.: 52604-00296

Inventor No. 1:

Dated: 5/8 2008

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**Preston|Gates|Ellis** LLP**FAX COVER SHEET**

**TO:** BOX ASSIGNMENT **FAX NO:** (571) 273-0140  
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**COMPANY:** Commissioner of Patents & **CONFIRMATION NO:**  
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**FROM:** Howard Chen, Esq. **REFERENCE NO:** File: 52604-296  
**DATE:** May 13, 2008 **TOTAL NUMBER OF PAGES INCLUDING THIS COVER SHEET:** \_\_\_

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