|   | U.S. PTO   |
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|   | 11/701348<br>02/01/2007  |
| Form PTO-1595 02-27-20<br>(Rev. 10/02)  | 07 EET U.S. DEPARTMENT OF COMMERCE<br>U.S. Patent and Trademark Office       |
| OMB No. 0651-0027 (exp. 6.30.2005)  |  |
| To the Honorable Commissione  | attached original documents of copy treateon.                                |
| 1. Name of conveying party(ies):  | 2. Name and address of receiving party(ies)                                  |
| Hao-Yu Chen, Chang-Yun Chang, Cheng-<br>Chuan Huang and Fu-Liang Yang   | Name: Taiwan Semiconductor .<br>Manufacturing Co., Ltd.<br>Internal Address: |
| Additional name(s) of conveying party(ies) attached?  Yes XNo   |  |
| 3. Nature of conveyance:  |  |
| 🔀 Assignment 🛛 Merger   | Street Address: <u>No. 8, Li-Hsin Road 6</u>                                 |
| Security Agreement     Change of Name   | Science Based Industrial Park  |
| □ Other   | City: Hsin-Chu State: Taiwan Zip: <u>300-77</u>                              |
| Execution Date: <u>January 03, 12, and 31, 2007</u>   | Additional name(s) & address(es) attached?                                   |
|   |  |
|   | □ Yes IXI No   |
| 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: 02/01/2007                 |  |
| A. Patent Application No.(s)  | B. Patent No.(s)   |
| Additional numbers attached?  Yes X No  |  |
| <ol><li>Name and address of party to whom correspondence<br/>concerning document should be mailed:</li></ol>                          | 6. Total number of applications and patents involved: 1                      |
| Name: <u>L. Howard Chen, Esq.</u>   | 7. Total fee (37 CFR 3.41)\$ 40.00   |
| internal Address:   |  |
|   | X Enclosed   |
|   |  |
| Street Address: Kirkpatrick & Lockhart Preston  | Authorized to be charged to deposit account                                  |
| Gates Ellis LLP   |  |
| 55 Second Street, Suite 1700  |  |
| City: <u>San Francisco</u> State: CA Zip: <u>94105</u>  | 8. Deposit account number:   |
|   | 50-3414  |
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| 9. Signature:<br><u>Ting-Mao Chao, Esg.</u><br><u>Ltd. Recog. No.: L0119</u><br><u>No.: L0119</u><br><u>No.: L0119</u><br><u>Date</u> |  |
| Name of Person Signing<br>Total number of pages including cover sheet, attachments, and documents: 4                                  |  |
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PATENT REEL: 018954 FRAME: 0262

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## ASSIGNMENT AND AGREEMENT

For value received, I/we Hao-Yu Chen, Chang-Yun Chang, Cheng-Chuan Huang and Fu-Liang Yang, hereby 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 its successors, assigns and legal representatives, the entire right, title and interest, for the United States of America, in and to certain inventions related to FINFET FOR **DEVICE CHARACTERIZATION** described in an application for Letters Patent of the United States filed on 02/01/07 , 2000 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.

Assignment and Agreement - Page - 1 -

Express Mail Label No.: EV 915512646 US

Patent Attorney Docket No.: TSMC2003-1043 Attorney Reference No.: 52604-00178

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.

**Inventor No. 1**;

Dated: 2007/1/3

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Express Mail Label No .: EV 915512646 US

Patent Attorney Docket No.: ISMC2003-1043 Attorney Reference No.: 52604-00178

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Citizenship: Taiwan

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**RECORDED: 02/01/2007**