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	rks: Please record the attached original documents or copy the
1. Name of conveying party(ies):	2. Name and address of receiving party(ies)
Jhon-Jhy Liaw	Name: Taiwan Semiconductor Manufacturing
8-27-0	Internal Address: Co., Ltd.
Additional name(s) of conveying party(les) attached? Yes	No
3. Nature of conveyance:	
Assignment Merger	No. 8 Li-Hein Road 6
Security Agreement Change of Nam	Street Address: No. 8, Li-Hsin Road 6
Other	Science Based Industrial Park, Hsin-Chu
00/00/04	City: Taiwan State: Zip: RO
08/23/04 Execution Date:	- Additional name(s) & address(es) attached? Yes
4. Application number(s) or patent number(s):	10/927943
If this document is being filed together with a new a	pplication, the execution date of the application is:
A. Patent Application No.(s)	
Additional number	- ∣ s attached?
5. Name and address of party to whom correspondent	
concerning document should be mailed:	6. Total number of applications and patents inv
	6. Total number of applications and patents inv 7. Total fee (37 CFR 3.41)\$40.00
concerning document should be mailed:	7. Total fee (37 CFR 3.41)\$\frac{40.00}{1000}
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concerning document should be mailed: Name: Howard Chen Internal Address: Duane Morris LLP	7. Total fee (37 CFR 3.41)\$40.00
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concerning document should be mailed: Name: Howard Chen Internal Address: Duane Morris LLP	6. Total number of applications and patents inv 7. Total fee (37 CFR 3.41)\$ Enclosed Authorized to be charged to deposit according
concerning document should be mailed: Name:Howard Chen Internal Address: Duane Morris LLP Street Address:One Market Street	6. Total number of applications and patents involved. 7. Total fee (37 CFR 3.41)
concerning document should be mailed: Name:Howard Chen Internal Address: Duane Morris LLP Street Address:One Market Street Spear Tower, Suite 2000 City: _San Francisco _State: _CA _Zip: _94105-1104	6. Total number of applications and patents inv 7. Total fee (37 CFR 3.41)
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Washington, D.C. 20231

ASSIGNMENT AND AGREEMENT

For value received, I/we, Jhon-Jhy Liaw 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, Tajwan 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 METAL GATE STRUCTURE FOR MOS DEVICES described in an application for Letters Patent of the United States 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.

Assignment and Agreement 1

PATENT REEL: 015743 FRAME: 0604

ATTORNEY DOCKET NO. TSMC2004-0441(N1280-1020)

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:

Thon Thy Law

Thon-Jhy Liaw

Residence:

RECORDED: 08/27/2004

idence:
12F, No. 38-21, lane 12, Kuo-Haw 2nd street, hsin-Chu,
TaTwan, ROC

Citizenship: TaTwan

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Assignment and Agreement 2

PATENT REEL: 015743 FRAME: 0605