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1. Name of conveying party(ies):

Dun-Nian Yang

2. Name and address of receiving party(ies)

Name: Taiwan Semiconductor Manufacturing

Internal Address: Co., Ltd.

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:



Assignment



Merger



Security Agreement



Change of Name



Other _____

Street Address: No. 8, Li-Hsin Road 6

Science Based Industrial Park, Hsin-Chu

City: Taiwan State: Zip: ROC 300-77

Execution Date: 12/6/04

Additional name(s) & address(es) attached? ☐ Yes ☒ 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: 12/9/04

A. Patent Application No.(s) _____

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

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 involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00



Enclosed



Authorized to be charged to deposit account

8. Deposit account number:

04-1679

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9. Signature.

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PATENT
REEL: 016073 FRAME: 0660

ASSIGNMENT AND AGREEMENT

For value received, I/we, **Dun-Nian Yaung** hereby sell(s), assign(s) and transfer(s) 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 **PINNED PHOTODIODE FABRICATED WITH SHALLOW TRENCH ISOLATION** described in an application for Letters Patent of the United States filed on _____, 2004 and assigned U.S. Application Number _____ 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.

Inventor No. 1:

Dated: ✓ 12/6 /2004

✓ Dun-Nian Yaung
Dun-Nian Yaung

Residence:

✓ 4F, No. 15, Lane 130, Wansheng St., Taipei City, Taiwan (R.O.C)

Citizenship: ✓ Taiwan (R.O.C)