

Form PTO-1595
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PATENT

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1. Name of conveying party(ies):

1. Hung-Chun Wan
2. Ming-Chih Hsieh
3. Han-Lin Wu

5-7-04

2. Name and address of receiving party(ies)

Name: Taiwan Semiconductor Manufacturing Co., Ltd.

Internal Address: _____

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 6Science Based Industrial ParkCity: Hsin-Chu State: _____ Zip: _____Country: Taiwan 300-77 R.O.C.Additional name(s) & address(es) attached? ☐ Yes ☒ NoExecution Date: 1) 5/5/2004; 2) 5/5/2004; 3) 5/4/2004

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: 5/5 & 5/4/04

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: William H. Murray, EsquireInternal Address: Duane Morris LLPStreet Address: One Liberty PlaceCity: Philadelphia State: PA Zip: 191036. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41).....\$ 40.00

- ☒ Enclosed
- ☐ Authorized to be charged to deposit account

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Richard A. Paikoff
Name of Person Signing

Richard A. Paikoff
Signature

05/7/2004

Date

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PATENT

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EXPRESS MAIL LABEL NO. EV 394063376 US ATTORNEY DOCKET NO. 2003.0366/1085.221

ASSIGNMENT AND AGREEMENT

For value received, we, **Hung-Chun Wang, Ming-Chih Hsieh, and Han-Lin Wu** 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 **METHOD FOR REPAIRING A PHASE SHIFT MASK** 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 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.

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 us, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

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.

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.

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We agree that, when requested, 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: May 5, 2004

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Dated: 5/5/2004

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Inventor No. 3

Dated: _____

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