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12-16-03

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2. Name and address of receiving party(ies)

Name: Taiwan Semiconductor Manufacturing Company, Ltd.

Internal Address:

3. Nature of conveyance:

- Assignment Merger Security Agreement Change of Name Other

Execution Date: 10/06/2003

Street Address: No. 8, Li-Hsin Rd. 6, Science-Based

Industrial Park, Hsin-Chu, Taiwan, 300-77, Republic of China

City: State: Zip:

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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:

A. Patent Application No.(s) 10/625432

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: David M. O'Dell

Internal Address: Haynes and Boone, LLP

Street Address: 901 Main Street, Suite 3100

City: Dallas State: TX Zip: 75202

6. Total number of applications and patents involved: 1

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

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Total number of pages including cover sheet, attachments, and documents: 3

Mail documents to be recorded with required cover sheet information to: Mail Stop Assignment, Commissioner of Patent, P.O. Box 1450 Alexandria, VA 22313-1450

invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, renewal, substitutional, continuing, and reissue applications, make all rightful declarations and/or oaths and generally do everything possible to aid the said TSMC, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said invention in all countries.

First Inventor Name: Birgie Kuo
Residence Address:

Dated: 10/6/2003

Birgie Kuo
Inventor Signature

Dated: _____

Witness Signature
Witness Name: _____

R51534