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To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)/Execution Date(s):Yuan-Ching Peng
Shyue-Shyn Lin
Wei-Ming ChenExecution Date(s) 2/21/2005Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No**3. Nature of conveyance:**

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other _____

2. Name and address of receiving party(ies)Name: Taiwan Semiconductor Manufacturing Company, Ltd

Internal Address: _____

Street Address: No. 8, Li-Hsin Rd. 6Science-Based Industrial ParkCity: Hsinchu,State: TaiwanCountry: R.O.C. Zip: _____Additional name(s) & address(es) attached? ☐ Yes ☒ No**4. Application or patent number(s):**☒ This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No**5. Name and address to whom correspondence concerning document should be mailed:**Name: Brian C. McCormack

Internal Address: _____

Street Address: 2300 Trammell Crow Center,2001 Ross Avenue, Suite 2300City: DallasState: Texas Zip: 75201-2916Phone Number: (214) 978-3007Fax Number: (214) 978-3099

Email Address: _____

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- ☐ Authorized to be charged by credit card
☒ Authorized to be charged to deposit account
☐ Enclosed
☐ None required (government interest not affecting title)

8. Payment Informationa. Credit Card Last 4 Numbers _____
Expiration Date _____b. Deposit Account Number 13-0480Authorized User Name Baker & McKenzie, LLP**9. Signature:**Brian C. McCormack
Signature4/29/2005
Date

Brian C. McCormack

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: ☐Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450

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PATENT
REEL: 016529 FRAME: 0114

ASSIGNMENT

WHEREAS, we, the undersigned inventors of residences as listed, have invented certain new and useful improvements as below entitled, for which an application for United States Letters Patent is made, said applications having been designated as set forth below and filed on or about the date set forth below; and

WHEREAS, Taiwan Semiconductor Manufacturing Company, Ltd. (hereinafter referred to as "Assignee"), a Taiwan corporation with an address of:

No. 8, Li-Hsin Rd. 6
Science-Based Industrial Park
Hsinchu, Taiwan R.O.C.

desires to acquire the entire right, title and interest in and to the invention, and in and to the said application and any Letters Patent(s) that may issue thereon;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we assign to Assignee, all right, title and interest in and to said invention and in and to said applications and all patents which may be granted therefor, and all divisions, reissues, continuations, continuations-in-part and extensions thereof; and we authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as our interest is concerned, to Assignee.

We also assign to Assignee, all right, title and interest in and to the invention disclosed in said applications throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs for said invention in its own name throughout the world, including all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries; and we further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such right, title and interest in Assignee.

We will communicate to Assignee any facts known to us respecting any improvements; and, at the expense of Assignee, we will testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and substitute applications, make lawful oaths and declarations, and generally do everything possible to vest title in Assignee and to aid Assignee to obtain and enforce proper protection for said invention in all countries.

This Assignment shall be binding on the parties' successors, assigns and legal representatives.

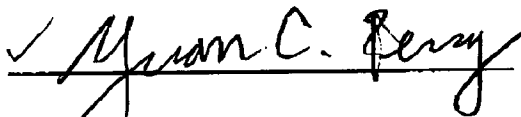
Invention Name: Magnetic Memory Array

Serial No.: Initial Filing

Date Filed: April 29, 2005

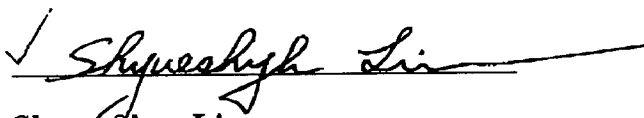
We hereby grant JOHN G. FLAIM, Registration No. 37,323, BRIAN C. McCORMACK, Registration No. 36,601, WILLIAM D. McSPADDEN, Registration No. 44,234, JAMES H. ORTEGA, Registration No. 50,554, RICHARD V. WELLS, Registration No. 53,757, BRIAN E. HARRIS, Registration No. 48,383 and all practitioners with the firm of Baker & McKenzie LLP, with an office at 2001 Ross Avenue, Suite 2300, Dallas, TX 75201, and CHIEN CHOU, Registration No. 41,672, STEVEN LIU, Registration No. 43,756 and SIMON LU, Registration No. 51,974, (Customer Number 44045) the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

The undersigned further declares that all statements made herein of his/her own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful and false statements may jeopardize the validity of the application or any patent issued thereon.

Signature of Inventor:**Inventor(s) Name:****Yuan-Ching Peng****Residence:**3F-2, 762, Sec 2
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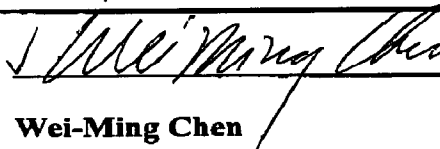
Taiwan

Date:✓ 02/15 2005

Signature of Inventor:**Inventor(s) Name:****Shyue-Shyn Lin****Residence:**8F 1008, Sec. 4
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Date:✓ 02/21/2005

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Date:✓ Feb 21, 2005
