

02-11-2000

U.S. DEPARTMENT OF COMMERCE

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R SHEET

Patent and Trademark Office
Docket No. 299002049300

101264531

To the Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

<p>1. Name of conveying party:</p> <p>HIDEHIKO TANAKA</p> <p><input checked="" type="checkbox"/> Individual <input type="checkbox"/> Association <input type="checkbox"/> General Partnership <input type="checkbox"/> Limited Partnership <input type="checkbox"/> Corporation-State <input type="checkbox"/> Other</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>2. Name and address of receiving party:</p> <p>Name: Sharp Kabushiki Kaisha Internal Address: Street Address: 22-22, Nagaikecho, Abeno-ku City: Osaka 545-8522 State: JAPAN ZIP:</p> <p>Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>3. Nature of conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other:</p> <p>Execution Date: December 17, 1999</p>	

4. Application number(s) or patent number(s): 09/447,095

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s) B. Patent No.(s)

Additional numbers attached? Yes No

<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Thomas E. Ciotti Morrison & Foerster LLP 755 Page Mill Road Palo Alto, California 94304-1018</p>	<p>6. Total number of applications and patents involved: 1</p> <p>7. Total fee (37 C.F.R. § 3.41): \$40.00</p> <p><input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to be charged to deposit account, referencing Attorney Docket 299002049300</p> <p>8. Deposit account number: 03-1952</p>
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The Commissioner is hereby authorized to charge any fees under 37 C.F.R. § 1.21 that may be required by this paper, or to credit any overpayment to **Deposit Account No. 03-1952**.

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Name: Thomas E. Ciotti *Thomas E. Ciotti* Jan. 5, 2000
Registration No: 21,013 Signature Date

Total number of pages comprising cover sheet, attachments and document: **5**

Mail documents to be recorded with required cover sheet information to:

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PATENT
REEL: 010536 FRAME: 0593

ASSIGNMENT

WHEREAS, The ASSIGNOR, comprising the following named inventor(s):

1. Hidehiko TANAKA; 1-90-1, MinamiKyobatecho, Nara-shi, Nara-ken Japan

has invented and owns a certain invention entitled:

SEMICONDUCTOR MEMORY DEVICE

for which application for Letters Patent of the United States was filed on November 22, 1999, and assigned Serial No. 09/447,095, and

WHEREAS, the ASSIGNEE:

SHARP KABUSHIKI KAISHA

22-22, Nagaikecho, Abeno-ku, Osaka 545-8522 Japan

is desirous of acquiring the entire interest in, to and under said invention and the United States Letters Patent to be obtained therefor;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that in consideration of the payment by ASSIGNEE to ASSIGNOR of the sum corresponding to One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration, ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the full and exclusive right, title and interest to said invention and all Letters Patent of the United States to be obtained therefor on said application or any continuation, division, renewal, substitute or reissue thereof for the full term or terms for which the same may be granted.

ASSIGNOR hereby covenants that no assignment sale agreement charge or other encumbrance has been or will be entered into which would conflict with this assignment and sale;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will

promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain and enforce said application, said invention and said Letters Patent which may be necessary or desirable to carry out the purposes hereof.

IN WITNESS WHEREOF, the parties have hereunto set their hands and seal

this 17th day of December, 1999.

1. Hidehiko Tanaka
(Hidehiko TANAKA)