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U.S. DEPARTMENT OF COMMERCE

R SHEET

Patent and Trademark Office Docket No. 299002054200

To the Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof. Name of conveying party(ies): 2. Name and address of receiving party(ies): Yoshinao MORIKAWA Name: Sharp Kabushiki Kaisha ☑ Individual(s) Internal Address: ☐ Limited Parmership ☐ General Partnership Street Address: 22-22, Nagaikecho ☐ Corporation-State ☐ Other City: Abeno-ku, Osaka shi, State: Osaka ZIP: 545 JAPAN Additional name(s) of conveying party(ies) attached? □Yes ■No 3. Nature of conveyance: Additional name(s) & address(es) attached?

Yes
No ☐ Merger ■ Assignment ☐ Security Agreement ☐ Change of Name ☐ Other: Execution Date: February 19, 2002 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: February 19, 2002 Patent No.(s) A. Patent Application No.(s) Additional numbers attached?

Yes

No Total number of applications and patents involved: 1 Name and address of party to whom correspondence concerning 6. document should be mailed: 7. Total fee (37 C.F.R. § 3.41): \$40.00 Madeline I. Johnston Morrison & Foerster LLP Enclosed 755 Page Mill Road Authorized to be charged to deposit account, referencing Palo Alto, California 94304-1018 Attorney Docket 299002054200 8. Deposit account number: 03-1952 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. DO NOT USE THIS SPACE 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: Madeline I. Johnston Registration No: 36,174 Total number of pages comprising cover sheet, attachments and document: .3 10087471 00000084 031952 03/20/2002 AAHMED1 40.00 CH 01 FC:581 Mail documents to be recorded with required cover sheet information to: U.S. Patent and Trademark Office Office of Public Records **Box Assignments** Crystal Gateway 4, Room 335 Washington, D.C. 20231

ASSIGNMENT

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

Yoshinao MORIKAWA;
 607-38, Ichibucho, Ikoma-shi, Nara Japan

has invented and owns a certain invention entitled:

REFERENCE VOLTAGE GENERATION CIRCUIT FOR SEMICONDUCTOR MEMORY DEVICE, MEMORY READING CIRCUIT INCLUDING THE SAME, AND ELECTRONIC INFORMATION DEVICE INCLUDING THE SAME

for which application for Letters Patent of the United States was executed on even date herewith, 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

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PATENT REEL: 012687 FRAME: 0502 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 19th day of February, 2002.

1. <u>Joshinao Marikawa</u>
Yoshinao MORIKAWA

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