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PATENTS ONLY

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

1. Name of conveying party(ies):

Takuya OTABE
Masaya NAGATA

11-14-02

Additional name/s of conveying party/ies attached? ☐

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Assignment ☐ Change of Name
☐ Other

Execution Date: October 15, 2002 and October 21,
2002, respectively

2. Name and address of receiving party(ies):

Name: Sharp Kabushiki Kaisha

Internal Address:

Street Address: 22-22, Nagaike-cho, Abeno-ku

City: Osaka

State/Country: Japan

Zip:

Additional name/s & address/es attached? ☐ Yes ☒ No

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).

- (1) 10/246,773
(2)
(3)

B. Patent No(s).

- (1)
(2)
(3)

Additional numbers attached ☐ Yes ☒ No

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

Name: H. Warren Burnam, Jr.

Internal Address:

Street Address: Nixon & Vanderhye P.C.

1100 North Glebe Road

8th Floor

City: Arlington State: VA Zip: 22201

6. Total number of applications & patents involved: 1

7. Total fee (37 CFR 3.41)

\$ 40.00

☒ Enclosed

☐ Authorized to be charged to deposit account #14-1140

8. The Commissioner is hereby authorized to charge any deficiency in the fee(s) filed, or asserted to be filed, or which should have been filed herewith (or with any paper thereafter filed in this application by this firm) to our Account No. 14-1140.

DO NOT USE THIS SPACE

9. Statements 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.

H. Warren Burnam, Jr.

Name of Person Signing

Reg. No. 29,366

Signature

November 14, 2002

Date

Total number of pages including original cover sheet, attachments, and document: [2]

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PATENT
REEL: 013492 FRAME: 0948

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ASSIGNMENT OF U.S. PATENT APPLICATION

Takuya OTABE
Masaya NAGATA

(Inventors)

In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to

(Assignee) SHARP KABUSHIKI KAISHA a corporation of Japan

(Address) 22-22, Nagaike-cho, Abeno-ku, Osaka, Japan

(Title) (hereinafter designated as the Assignee) the undersigned's entire right, title and interest for the United States, its territories, dependencies and possessions in the invention, and all applications for patent and any Letters Patent which may be granted therefore, known as SEMICONDUCTOR MEMORY DEVICE INCLUDING A CAPACITOR AN UPPER ELECTRODE OF WHICH BEING RESISTANT OF EXFOLIATION

for which the undersigned has (have) executed on even date herewith an application for patent in the United States of America or, if not on even date, then has executed on _____ or has already filed U.S. application Serial No. _____, on September 19, 2002.

The undersigned acknowledges an obligation of assignment of this invention to said assignee at the time the invention was made.

The undersigned agree(s) to execute all papers and documents necessary in connection with the application or any interference which may be declared and any continuing or divisional applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient and further to perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the firm of NIXON & VANDERHYE P.C. 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 Office for recordation of this document. It is understood and agreed that ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned signature(s).

Date <u>October 15, 2002</u>	Signature of inventor	<u>Takuya OTABE</u>
Date <u>October 21, 2002</u>	Signature of inventor	<u>Masaya Nagata</u>
Date _____	Signature of inventor	_____
Date _____	Signature of inventor	_____

Witnessed by: Keiko Tanemoto Date Oct. 15, 2002

Witnessed by: Naohiro Itoh Date Oct. 21, 2002

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