

12-31-1998



U.S. DEPARTMENT OF COMMERCE

100935557

COVER SHEET

Patent and Trademark Office
Docket No. 204552012500

PATENTS ONLY

12-23-98

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

1 Name of conveying party(ies):
Kazuya ISHIHARA

Individual(s) Association
 General Partnership Limited Partnership
 Corporation-State Other

Additional name(s) of conveying party(ies) attached? Yes No

2 Name and address of receiving party(ies):

Name: SHARP KABUSHIKI KAISHA
22-22, Nagaike-cho, Abeno-ku
Osaka, JAPAN

Additional name(s) & address(es) attached? Yes No

3 Nature of conveyance:

Assignment Merger
 Security Agreement Change of Name
 Other:

Execution Date: November 20, 1998

4 Application number(s) or patent number(s): **09, 168, 235**

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)
 (09/168,235)

Additional numbers attached? Yes No

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

Barry E. Bretschneider
Morrison & Foerster LLP
2000 Pennsylvania Avenue, N.W.
Washington, D.C. 20006-1888

6 Total number of applications and patents involved: 1

7 Total fee (37 C.F.R. § 3.41): \$40.00

Enclosed
 Authorized to be charged to deposit account, referencing Attorney Docket

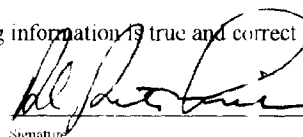
8 Deposit account number: **03-1952**

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: Barry E. Bretschneider  December 21, 1998
 Registration No: 28,055 Signature Date

Total number of pages comprising cover sheet, attachments and document: 3

12/30/1998 DMGUYEN 00000211 09168235
 01 FC:581 40.00 OP

Mail documents to be recorded with required cover sheet information to:
 Commissioner of Patents and Trademarks
 Box Assignments
 Washington, D.C. 20231

PATENT
REEL: 9664 FRAME: 0658

Assignment

SERIAL NO. 09/168,235

FILED 10/07/1998

In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged,

Kazuya ISHIHARA

Insert Name(s)
of Inventor(s)

(hereinafter designated as the undersigned) hereby sell(s) and assign(s) to

Insert Name
of Assignee

SHARP KABUSHIKI KAISHA

Address of
Assignee

of 22-22, Nagaike-cho, Abeno-ku, Osaka, Japan

its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee), the entire right, title and interest in the invention or improvements in

Title of
Invention

SEMICONDUCTOR STORAGE DEVICE AND FABRICATING METHOD THEREOF

for which an application for Letters Patent of the United States of America has been executed by the undersigned

Date of Signing
of Application

on November 20, 1998

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division or reissue thereof or letters patent or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the 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 and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the 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.

PATENT
REEL: 9664 FRAME: 0659

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

Date Nov. 20, 1998, Name of Inventor Kazuya Shikawa
(signature)

Date _____, Name of Inventor _____
(signature)

Date _____, Name of Inventor _____
(signature)

Date _____, Name of Inventor _____
(signature)

Date _____, Name of Inventor _____
(signature)

Date _____, Name of Inventor _____
(signature)

Date _____, Name of Inventor _____
(signature)

(This assignment should preferably be acknowledged before a United States Consul or Notary Public. If not, then the execution by the Inventor(s) should be witnessed by at least two other persons who sign here.)

Witness Asako Iwasaki

Witness Naoko Itoh

Witness _____

ACKNOWLEDGMENT

_____ }
_____ }

On this _____ day of _____, 19____, before me
personally appeared the above-named _____

to me personally known to be the individual(s) who executed the foregoing assignment, who did
acknowledge to me that he (they) executed the same of his (their) own free will for the purposes therein set
forth.

Witness my hand and seal the day and year last above given.

(SEAL)

Official Signature

Official Title