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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):

HISASHI NAGATA
NOBORU NOGUCHI
KATSUYA MIZUKATA

3/09/01

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

Name: SHARP KABUSHIKI KAISHA

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

City: Osaka 545-8522

State/Prov.: _____

Country: Japan

ZIP: _____

Additional names(s) of conveying party(ies)

☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other _____

Execution Date: February 1, 2001

Additional name(s) & address(es)

☐ Yes ☒ No

4. Application number(s) or registration numbers(s):

If this document is being filed together with a new application, the execution date of the application is: February 1, 2001

Patent Application No.

Filing date

B. Patent No.(s)

03/14/2001 TBESHAH1 00000014 09803509

04 FC:581

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09803509

Additional numbers

☐ Yes ☒ No

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

Name: David G. Conlin

Registration No. 27026

Address: Dike, Bronstein, Roberts & Cushman,

Intellectual Property Practice Group

EDWARDS & ANGELL, LLP, 130 Water Street

City: Boston

State/Prov.: MA

Country: USA

ZIP: 02109

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41):.....\$ 40.00

☒ Enclosed - Any excess or insufficiency should be credited or debited to deposit account☐ Authorized to be charged to deposit account

8. Deposit account number:

04-1105

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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.

David G. Conlin (Reg. No. 27026)

Name of Person Signing

Signature

March 9, 2001

Date

2

Total number of pages including cover sheet, attachments, and

PATENT
REEL: 011600 FRAME: 0243

ASSIGNMENT

We Hisashi NAGATA
Noboru NOGUCHI
 and Katsuya MIZUKATA
 for good and valuable consideration from Sharp Kabushiki Kaisha
a Japanese corporation,
 having its principal place of business in Osaka, Japan
 hereinafter called the Assignee, receipt of which is hereby acknowledged, do hereby
 sell, assign and transfer unto the Assignee, its successors and assigns, the entire
 right, title and interest in, to and under an application for Letters Patent of the
 United States Serial No. _____, filed on _____ * signed by us
 for Improvements in DATA TRANSFER METHOD, IMAGE DISPLAY DEVICE AND
SIGNAL LINE DRIVING CIRCUIT, ACTIVE-MATRIX SUBSTRATE
 including all priority rights ensuing therefrom, and the inventions and any of them
 therein set forth and described, and any and all Letters Patent of the United States
 and of countries foreign thereto which may be granted thereon or therefor, together
 with the right to apply for such Letters Patent.

And for the above consideration we agree promptly upon request of the Assignee,
 its successors or assigns, to execute and deliver without further compensation any
 power of attorney, assignment, application, whether original, divisional, continuation
 or reissue, or other papers which may be necessary or desirable fully to secure to the
 Assignee, its successors and assigns, the inventions and any of them described in said
 application and all patent rights therein, in the United States and in any country
 foreign thereto.

The undersigned hereby grant(s) the law firm of Dike, Bronstein, Roberts &
 Cushman 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
 U.S. Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, I, Hisashi NAGATA, hereunto set my
 hand and seal this 1st day of February, 2001, I, Noboru NOGUCHI
hereunto set my hand and seal this 1st day of February
2001, and I, Katsuya MIZUKATA, hereunto set my hand and seal
 this 1st day of February, 2001.

Hisashi Nagata

Noboru Noguchi

Katsuya Mizukata

Commonwealth [State] of _____ ss.
 County of _____

Before me this _____ day of _____, 19____, personally appeared
 _____, who is to me personally known, and acknowledged
 the foregoing instrument of assignment to be [her] his free act and deed.

 Notary Public

Commonwealth [State] of _____ ss.
 County of _____

Before me this _____ day of _____, 19____, personally appeared
 _____, who is to me personally known, and acknowledged
 the foregoing instrument of assignment to be [her] his free act and deed.

 Notary Public

*Where the application is assigned before it is filed,
 and hence has no Serial No., this shall be left blank.