

01-04-1999

ocket No.: 48820



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MRD 12-16-98

Tab settings

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

1. Name of conveying party(ies):

Tatsuya Shiraki
Masanori Sano

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

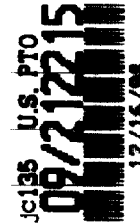
Name: SharpKabushiki Kaisha

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

Osaka 545-8522, Japan

Additional names(s) of conveying party(ies)

Yes No



3. Nature of conveyance:

Assignment

Merger

Security Agreement

Change of Name

Other

City: State/Prov.:

Country: ZIP:

Execution Date: November 20, 1998

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: November 20, 1998

12/29/1998 PUBLIC 0000000 09212215 Filing date

B. Patent No.(s)

FC:581

40.00 OP

Additional numbers

Yes No

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

Name: David G. Conlin

Registration No. 27.026

Address: Dike, Bronstein, Roberts & Cushman, 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 E

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

December 16, 1998

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and

3

ASSIGNMENT

Serial No. _____, Filed _____

WHEREAS, the following inventor(s): Tatsuya SHIRAKI and Masanori SANO

(hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in "ELECTRONIC DEVICE AND DISPLAY SYSTEM EMPLOYING THE SAME"

for which application for Letters Patent of the United States has been executed by the undersigned on November 20, 1998 : and

WHEREAS, SHARP KABUSHIKI KAISHA
of 22-22, Nagaike-cho, Abeno-ku, Osaka 545-8522, Japan
_____ (Assignee)

its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and to any Letters Patent(s) that may be granted therefor in the United States of America;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to the undersigned in hand paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned has (have) sold, assigned and transferred, and by these presents do sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America and its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America and its territories, dependencies and possessions, and in and to any and all divisions, reissues, continuations and extensions thereof for the full term or terms for which the same may be granted.

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(s) 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(s) 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 and Trademarks to issue any and all Letters Patents of the United States of America 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 or she has the full right to convey the entire interest herein assigned, and that he or she has not executed, and will not execute any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Dike, Bronstein, Roberts & Cushman, LLP of 130 Water Street, Boston, Massachusetts 02109-4280, U.S.A. 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, signed by the undersigned on the date(s) opposite the undersigned name(s).

Date NOV. 20, 1998, Signature of Inventor Tatsuya Shiraki
Name: Tatsuya SHIRAKI

Date NOV. 20, 1998, Signature of Inventor Masanori Sano
Name: Masanori SANO

Date _____, Signature of Inventor _____
Name:

Date _____, Signature of Inventor _____
Name:

Date _____, Signature of Inventor _____
Name:

Date _____, Signature of Inventor _____
Name:

* * * * *

Date _____, Witness _____
Name:

Date _____, Witness _____
Name: