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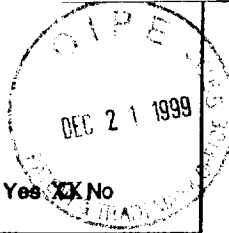
To the Honorable Commissioner of Patent

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Send original documents or copy thereof.

Name of conveying party(ies):

Shigetsugu Okamoto
Hirofumi Katsuse



2. Name and address of receiving party(ies)

Name: Sharp Kabushiki Kaisha

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

Nature of conveyance:

- Assignment Merger
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Street Address: 22-22 Nagaike-cho Abeno-Ku

Osaka 545 Japan

City: State: ZIP:

Execution Date: January 24, 1997

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

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)

Serial No: 08/742,033
Filed: November 1, 1996

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: Mark D. Saralino

Internal Address:

Street Address: Renner Otto Boisselle & Sklar
1621 Euclid Avenue, 19th Floor

City: Cleveland State: Ohio ZIP: 44115

6. Total number of applications and patents involved: 1

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

Enclosed

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8. Deposit account number:

18-0988

(Attach duplicate copy of this page if paying by deposit account)

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Mark D. Saralino

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12/17/99

Date

Atty Docket: HARAPO103US Total number of pages including cover sheet, attachments, and document: 3

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PATENT

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ASSIGNMENT

For One Dollar (\$1.00) and other good and valuable consideration received of the hereinafter named assignee, receipt of which is hereby acknowledged, the undersigned

Shigetsugu OKAMOTO and Hirofumi KATSUSE

Of 5-3-32-204, Asahi-cho Kashiwa-shi Chiba 277 Japan and
132 Southfield Park, Bartlemas Close, Cowley, Oxford OX4 2BA, United Kingdom
hereby sell and assign to SHARP KABUSHIKI KAISHA and THE SECRETARY OF STATE FOR DEFENCE
IN HER BRITANNIC MAJESTY'S GOVERNMENT OF THE UNITED KINGDOM OF GREAT BRITAIN AND
NORTHERN IRELAND having a place
of business at 22-22 Nagaike-cho Abeno-ku Osaka 545 Japan and Defence Evaluation and Research
Agency, Farnborough, Hants, GU14 6TD, United Kingdom

, its
successors and assigns, the entire right, title and interest, so far as concerns the United States and the
Territories and Possessions thereof and all foreign countries, in and to the inventions in

LIQUID CRYSTAL DISPLAY APPARATUS

set forth in the application for United States Letters Patent executed by the undersigned on
January 24, 1997

said application for United States Letters Patent, any and all other applications for Letters Patent on said inventions in countries foreign to the United States, including all divisional, renewal, substitute, continuation and Convention applications based in whole or in part upon said inventions or upon said applications, and any and all Letters Patent and reissues and extensions of Letters Patent granted for said inventions or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said applications and said Letters Patent; said assignee being hereby authorized to file patent applications in any or all countries on any or all said inventions in the name of the undersigned or in the name of said assignee or otherwise as said assignee may deem advisable, under the International Convention or otherwise; the Commissioner of Patents of the United States of America and the empowered officials of all other governments being hereby authorized to issue or transfer all said Letters Patent to said assignee in accordance herewith: this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or other right heretofore given, and that the undersigned will do all acts reasonably serving to assure that the said inventions, patent applications and Letters Patent shall be held and enjoyed by said assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to said assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, and lawful affidavits in form and substance which may be requested by said assignee, to furnish said assignee with all facts relating to said inventions or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may be useful for establishing the facts of conception, disclosure and reduction to practice of said inventions, and to testify in any proceedings relating to said inventions, patent applications and Letters Patent.

Attested by:

Signed:

Dated:

Shigetsugu OKAMOTO

Shigetsugu OKAMOTO

January 24, 1997

Hirofumi KATSUSE

Hirofumi Katsuse

January 24, 1997

Assignment

The Secretary of State For Defence In Her Britannic Majesty's
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