


09-07-2001

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Our Ref.: 1114-166

Commissioner of Patents and Trademarks
Box Assignment, Washington, D.C. 20231

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

1. Name of conveying party(ies):
 Mitsuaki HIRATA Tazo Ikeguchi
 Fumikazu SHIMOSHIKIRYOH
 Shigeaki MIZUSHIMA
 Mitsuaki MORIMOTO

Additional name/s of conveying party/ies attached?

3. Nature of conveyance:
 Assignment Merger
 Security Assignment Change of Name
 Other

Execution Date: August 23, 2001

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: August 23, 2001

A. Patent Application No(s).
 (1) Unknown
 (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. August 29, 2001
 Name of Person Signing Signature Date
 Reg. No. 29,366

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

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ASSIGNMENT OF U.S. PATENT APPLICATION

Mitsuaki HIRATA
Fumikazu SHIMOSHIKIRYOH
(Inventors) Shigeaki MIZUSHIMA
Mitsuaki MORIMOTO
Tazo Ikeguchi

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) Liquid crystal display apparatus
 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 _____

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 August 23, 2001 Signature of inventor Mitsuaki Hirata
 (Mitsuaki HIRATA)

Date August 23, 2001 Signature of inventor Fumikazu Shimoshikiryoh
 (Fumikazu SHIMOSHIKIRYOH)

Date August 23, 2001 Signature of inventor Shigeaki Mizushima
 (Shigeaki MIZUSHIMA)

Date August 23, 2001 Signature of inventor Mitsuaki Morimoto
 (Mitsuaki MORIMOTO)

Date August 23, 2001 Signature of inventor Tazo Ikeguchi
 (Tazo IKEGUCHI)

Witnessed by: _____ Date _____
 Witnessed by: _____ Date _____