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Our Ref.: 4034-6

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):  
 Kiyoshi MINOURA Tomoko TERANISHI  
 Shun UEKI Yasuhisa ITOH  
 Masahiko TOMIKAWA  
 Eiji SATOH

Additional name/s of conveying party/ies attached?

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

Execution Date: January 17 and 18, 2002

2. Name and address of receiving party(ies):  
 Name: Sharp Kabushiki Kaisha  
 Internal Address: \_\_\_\_\_  
 Street Address: 22-22, Nagaichecho, Abeno-ku, Osaka-s  
 \_\_\_\_\_  
 \_\_\_\_\_  
 City: Osaka  
 State/Country: Japan  
 Zip: 545-8522

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: January 17 And 18, 2002

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  
8<sup>th</sup> 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. [Signature] January 31, 2002  
 Name of Person Signing Signature Date  
 Reg. No. 29,366

Total number of pages including original cover sheet, attachments, and document: [3]

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01 FE:101 740.00 DP  
 02 FE:102 168.00 DP  
 03 FE:103 144.00 DP  
 04 FE:104 40.00 DP

# ASSIGNMENT OF PATENT APPLICATION

(Inventors) Kiyoshi MINOURA  
 Shun UEKI  
 Masahiko TOMIKAWA  
 Eiji SATOH  
 Tomoko TERANISHI  
 Yasuhisa ITOH

(Assignee) In consideration of the sum of one dollar (\$1.00) and other good and valuable  
 (Address) considerations paid to each of the undersigned, the undersigned agree(s) to assign,  
 and hereby does assign, transfer and set over to  
 Sharp Kabushiki Kaisha  
 (of 22-22, Nagaikecho, Abeno-ku, Osaka-shi, Osaka 545-8522 Japan  
 (hereinafter designated as the Assignee) the undersigned's entire right, title and  
 interest for the United States, its territories, dependencies and possessions in the  
 invention, and all applications for patent and any Letters Patent which may be granted  
 therefore, known as  
 (Title) DISPLAY DEVICE  
 (Case No. 4034- )  
 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 in  
 (U.S. appln. Serial No. , filed 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 & VANDERHUYE 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 & Vanderhuy P.C. have represented only ASSIGNEE and will continue to  
 represent only ASSIGNEE with respect to this invention.

545834

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

Date	<u>January 17, 2002</u>	Signature of inventor	( <u>Kiyoshi Minoura</u> Kiyoshi MINOURA
Date	<u>January 18, 2002</u>	Signature of inventor	( <u>Shun Ueki</u> Shun UEKI
Date	<u>January 11, 2002</u>	Signature of inventor	( <u>Masahiko Tomikawa</u> Masahiko TOMIKAWA
Date	<u>January 18, 2002</u>	Signature of inventor	( <u>Eiji Satoh</u> Eiji SATOH
Date	<u>January 16, 2002</u>	Signature of inventor	( <u>Tomoko Teranishi</u> Tomoko TERANISHI
Date	<u>January 18, 2002</u>	Signature of inventor	( <u>Yasuhisa Itoh</u> Yasuhisa ITOH
Date	_____	Signature of inventor	( _____
Date	_____	Signature of inventor	( _____

Witnessed by: \_\_\_\_\_

Date \_\_\_\_\_

Witnessed by: \_\_\_\_\_

Date \_\_\_\_\_