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Our Ref.: 1114-163

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):  
Katsuya DEMOTO  
Yoshinori FUJITA  
Yoshiro NAKANO

*01/10/01*

2. Name and address of receiving party(ies):  
Name: SHARP KABUSHIKI KAISHA  
Internal Address: \_\_\_\_\_  
Street Address: 22-22 Nagaike-cho, Abeno-ku

10970 U.S. PTO  
09/901125  
07/10/01

Additional name/s of conveying party/ies attached?   
3. Nature of conveyance:  
 Assignment  Merger  
 Security Assignment  Change of Name  
 Other

City: Osaka  
State/Country: Japan  
Zip: \_\_\_\_\_

Execution Date: July 2, 2001

Additional name/s & address/es attached?  Yes  No

4. Application number(s) or patent number(s): *09/901125*  
If this document is being filed together with a new application, the execution date of the application is: July 2, 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  
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. *H. Warren Burnam, Jr.* July 10, 2001  
Name of Person Signing Signature Date

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

07/13/2001 EMAIL1 00000020 09901125  
02 FC:581 40.00 OP

Case No. : \_\_\_\_\_

### ASSIGNMENT OF U.S. PATENT APPLICATION

(Inventors) Katsuya DEMOTO  
Yoshinori FUJITA  
Yoshiro NAKANO

(Assignee) SHARP KABUSHIKI KAISHA a corporation of Japan  
 (Address) 22-22, Nagaike-cho, Abeno-ku, Osaka, Japan

(Title) COMMUNICATION SYSTEM  
 (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 COMMUNICATION SYSTEM 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 July 2, 2001 Signature of inventor (Katsuya DEMOTO) Katsuya DEMOTO  
 Date July 2, 2001 Signature of inventor (Yoshinori FUJITA) Yoshinori FUJITA  
 Date July 2, 2001 Signature of inventor (Yoshiro NAKANO) Yoshiro Nakano  
 Date \_\_\_\_\_ Signature of inventor \_\_\_\_\_  
 Date \_\_\_\_\_ Signature of inventor \_\_\_\_\_

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

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