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Docket No.: 49578(904)

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

## 1. Name of conveying party(ies):

HIDEAKI FUJITA, YORISHIGE ISHII,  
YOSHIFUMI IWAI, TOSHIYUKI MATUSHIMA,  
TOSHIHIRO TAMURA, YUKIO KURATA

Additional names(s) of conveying party(ies)

☐ Yes ☒ No

## 3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ OtherExecution Date: January 21, 2000

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

Name: SHARP KABUSHIKI KAISHAAddress: 22-22 Nagaike-cho, Abeno-kuCity: Osaka

State/Prov.: \_\_\_\_\_

Country: Japan

ZIP: \_\_\_\_\_

Additional name(s) &amp; 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: January 21, 2000

Patent Application No.

Filing date

B. Patent No.(s)

Additional numbers

☐ Yes ☒ No

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

Name: David G. ConlinRegistration No. 27026Address: Dike, Bronstein, Roberts & Cushman, LLP130 Water StreetCity: BostonState/Prov.: MACountry: USAZIP: 02109

## 6. Total number of applications and patents involved:

1

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

Name of Person Signing

Signature

February 17, 2000

Date

Total number of pages including cover sheet, attachments, and

3

# A S S I G N M E N T

We Hideaki FUJITA  
Yorishige ISHII  
 and Yoshifumi IWAI  
 for good and valuable consideration from SHARP KABUSHIKI KAISHA  
 , a Japanese corporation,  
 having its principal place of business in Osaka, Japan  
 hereinafter called the Assignee, receipt of which is hereby acknowledged, do hereby  
 sell, assign and transfer unto the Assignee, its successors and assigns, the entire  
 right, title and interest in, to and under an application for Letters Patent of the  
 United States Serial No. \_\_\_\_\_, filed on \_\_\_\_\_ \* signed by us  
 for Improvements in TWO-WAY OPTICAL COMMUNICATION DEVICE AND TWO-WAY  
OPTICAL COMMUNICATION APPARATUS  
 including all priority rights ensuing therefrom, and the inventions and any of them  
 therein set forth and described, and any and all Letters Patent of the United States  
 and of countries foreign thereto which may be granted thereon or therefor, together  
 with the right to apply for such Letters Patent.

And for the above consideration we agree promptly upon request of the Assignee,  
 its successors or assigns, to execute and deliver without further compensation any  
 power of attorney, assignment, application, whether original, divisional, continuation  
 or reissue, or other papers which may be necessary or desirable fully to secure to the  
 Assignee, its successors and assigns, the inventions and any of them described in said  
 application and all patent rights therein, in the United States and in any country  
 foreign thereto.

The undersigned hereby grant(s) the law firm of Dike, Bronstein, Roberts &  
 Cushman 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, I, Hideaki FUJITA, hereunto set my  
 hand and seal this 21st day of January, 2000, I, Yorishige  
ISHII, hereunto set my hand and seal this 21st day of January  
 2000, and I, Yoshifumi IWAI, hereunto set my hand and seal  
 this 21st day of January, 2000.

Hideaki Fujita  
Yorishige Ishii  
Yoshifumi Iwai

Commonwealth [State] of \_\_\_\_\_ ss.  
 County of \_\_\_\_\_

Before me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, personally appeared  
 \_\_\_\_\_, who is to me personally known, and acknowledged  
 the foregoing instrument of assignment to be [her] his free act and deed.

\_\_\_\_\_  
 Notary Public

Commonwealth [State] of \_\_\_\_\_ ss.  
 County of \_\_\_\_\_

Before me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, personally appeared  
 \_\_\_\_\_, who is to me personally known, and acknowledged  
 the foregoing instrument of assignment to be [her] his free act and deed.

\_\_\_\_\_  
 Notary Public

\*Where the application is assigned before it is filed,  
 and hence has no Serial No., this shall be left blank.

# A S S I G N M E N T

We Toshiyuki MATUSHIMA  
Toshihiro TAMURA  
 and Yukio KURATA  
 for good and valuable consideration from SHARP KABUSHIKI KAISHA  
 , a Japanese corporation,  
 having its principal place of business in Osaka, Japan  
 hereinafter called the Assignee, receipt of which is hereby acknowledged, do hereby  
 sell, assign and transfer unto the Assignee, its successors and assigns, the entire  
 right, title and interest in, to and under an application for Letters Patent of the  
 United States Serial No. \_\_\_\_\_, filed on \_\_\_\_\_ \* signed by us  
 for Improvements in TWO-WAY OPTICAL COMMUNICATION DEVICE AND TWO-WAY  
OPTICAL COMMUNICATION APPARATUS  
 including all priority rights ensuing therefrom, and the inventions and any of them  
 therein set forth and described, and any and all Letters Patent of the United States  
 and of countries foreign thereto which may be granted thereon or therefor, together  
 with the right to apply for such Letters Patent.

And for the above consideration we agree promptly upon request of the Assignee,  
 its successors or assigns, to execute and deliver without further compensation any  
 power of attorney, assignment, application, whether original, divisional, continuation  
 or reissue, or other papers which may be necessary or desirable fully to secure to the  
 Assignee, its successors and assigns, the inventions and any of them described in said  
 application and all patent rights therein, in the United States and in any country  
 foreign thereto.

The undersigned hereby grant(s) the law firm of Dike, Bronstein, Roberts &  
 Cushman 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, I, Toshiyuki MATUSHIMA, hereunto set my  
 hand and seal this 21st day of January, 2000, I, Toshihiro  
TAMURA, hereunto set my hand and seal this 21st day of January  
 2000, and I, Yukio KURATA, hereunto set my hand and seal  
 this 21st day of January, 2000.

Toshiyuki Matushima  
Toshihiro Tamura  
Yukio Kurata

Commonwealth [State] of \_\_\_\_\_ ss.  
 County of \_\_\_\_\_

Before me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, personally appeared  
 \_\_\_\_\_, who is to me personally known, and acknowledged  
 the foregoing instrument of assignment to be [her] his free act and deed.

\_\_\_\_\_  
 Notary Public

Commonwealth [State] of \_\_\_\_\_ ss.  
 County of \_\_\_\_\_

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 the foregoing instrument of assignment to be [her] his free act and deed.

\_\_\_\_\_  
 Notary Public

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