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U.S. Department of Commerce  
Patent and Trademark Office

RECORDATION



101556498

PATENT COVER SHEET

Our Ref.: 925-171

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):

Kazuhiro SAWA  
Manabu TODA

*Handwritten: KAWA 2500*

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 of conveying party(ies) attached? ☐

3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Assignment ☐ Change of Name  
☐ Other

Execution Date: November 20, 2000

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: November 20, 2000

A. Patent Application No(s).

(1) (To Be Assigned)

(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: Joseph S. Presta

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.

Joseph S. Presta  
Name of Person Signing  
Reg. No. 35,329

*Handwritten Signature*  
Signature

December 5, 2000  
Date

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

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12/05/00

**ASSIGNMENT OF U.S. PATENT APPLICATION**Kazuhiro SAWAManabu TODA

(Inventors)

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)

(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 APPARATUS, FREQUENCY SPECTRUM INVERSION METHOD AND PROGRAM STORAGE MEDIUM

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 Nov. 20, 2000 Signature of inventorKazuhiro SawaDate Nov. 20, 2000 Signature of inventorManabu Toda

Date \_\_\_\_\_ Signature of inventor

Date \_\_\_\_\_ Signature of inventor

Date \_\_\_\_\_ Signature of inventor

Witnessed by: Naohiro ItoDate Nov. 20, 2000Witnessed by: Naohiro ItoDate Nov. 20, 2000