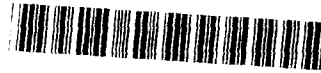




09-12-2005



COMMERCE  
ark Office

RECORDATION FORM CC

103078198

PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)/Execution Date(s):

(1) Toshihiro TAKAGI  
(2) Yoshihisa NAGAMURA  
(3) Yasuhiro INUI

Execution Date(s) (1, 2 & 3) July 21, 2005

Additional name(s) of conveying party(ies) attached?  Yes  No

2. Name and address of receiving party(ies)

Name: Funai Electric Co., Ltd.

Street Address: 7-1, Nakagaito 7-chome  
Daito-shi, Osaka 574-0013  
Japan

Additional name(s) & address(es) attached?  Yes  No

3. Nature of conveyance:

Assignment  Merger  
 Security Agreement  Change of Name  
 Government Interest Assignment  
 Executive Order 9424, Confirmatory License  
 Other

4. Application number(s) or patent number(s):  This document is being filed together with a new application.

A. Patent Application No.(s)  
11/167,278 filed June 28, 2005

B. Patent Registration No.(s)

Additional number(s) attached?  Yes  No

6. Total number of applications and patents involved 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00  
 Authorized to be charged by credit card  
 Authorized to be charged to deposit account  
 Enclosed  
 None required (government interest not affecting title)

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

Name: Crowell & Moring LLP

Street Address: Intellectual Property Group  
PO Box 14300  
Washington, DC 20044-4300

Phone Number: 202-624-2500  
Fax Number: 202-628-8844

8. Payment Information

a. Credit Card Last 4 Numbers  
Expiration Date

b. Deposit Account Number 05-1323  
Authorized User Name

9. Signature: Jeffrey D. Sanok September 7, 2005  
Signature Date

Jeffrey D. Sanok, Registration No. 32,169 Total number of pages including cover  
Name of Person Signing sheet, attachments, and documents: 3

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

JDS.kac

09/09/2005 ECOOPER 00000041 11167278

01 FC:8021

40.00 DP

**ASSIGNMENT**

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto:

Funai Electric Co., Ltd.  
7-1, Nakagaito 7-chome  
Daito-shi, Osaka 574-0013  
JAPAN

(hereinafter ASSIGNEE) all right, title and interest for the United States, its territories and possessions in and to his invention relating to:

**DIGITAL TELEVISION BROADCAST SIGNAL RECEIVER**

as set forth in his United States Patent Application (check one):

executed concurrently herewith,  
 executed on \_\_\_\_\_,  
 Serial No. \_\_\_\_\_, filed \_\_\_\_\_,

in and to said United States Patent Application including any and all divisions or continuations thereof and in and to any and all Letters Patent of the United States which may issue on any such application or for said invention, including any and all reissues or extensions thereof, to be held and enjoyed by said ASSIGNEE, its successors, legal representatives and assigns to the full end of the term or terms for which any and all such Letters patent may be granted as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made;

Each of the undersigned hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all such Letters patent to said ASSIGNEE, its successors or assigns in accordance herewith;

Each of the undersigned warrants and covenants that he has the full and unencumbered right to sell and assign the interests herein sold and assigned and that he has not executed and will not execute any document or instrument in conflict herewith;

Each of the undersigned further covenants and agrees he will communicate to said ASSIGNEE, its successors, legal representatives or assigns all information known to him relating to said invention or patent application and that he will execute and deliver any papers, make all rightful oaths, testify in any legal proceedings and perform all other lawful acts deemed necessary or desirable by said ASSIGNEE, its successors, legal representatives or assigns to perfect title to said invention, to said application including divisions and continuations thereof and to any and all Letters Patent which may be granted therefor or thereon, including reissues or extensions, in said ASSIGNEE, its successors, or assigns or to assist said ASSIGNEE, its successors, legal representatives or assigns in obtaining, reissuing or enforcing Letters Patent of the United States for said invention;

Each of the undersigned hereby grants the firm of CROWELL & MORING, L.L.P., or any partner thereof, the power to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

**INVENTOR:** Toshihiro TAKAGI  
Citizenship: Japanese  
Post Office Address: c/o Funai Electric Co., Ltd., 7-1, Nakagaito 7-chome, Daito-shi, Osaka 574-0013  
Residence: JAPAN

July 21, 2005  
(date)

Toshihiro Takagi  
(signature of 1st inventor)

**INVENTOR:** Yoshihisa NAGAMURA  
Citizenship: Japanese  
Post Office Address: c/o Funai Electric Co., Ltd., 7-1, Nakagaito 7-chome, Daito-shi, Osaka 574-0013  
Residence: JAPAN

July 21, 2005  
(date)

Yoshihisa NAGAMURA  
(signature of 2nd inventor)

**INVENTOR:** Yasuhiro INUI  
 Citizenship: Japanese  
 Post Office Address/ Residence: c/o Funai Electric Co., Ltd., 7-1, Nakagaito 7-chome, Daito-shi, Osaka 574-0013  
 JAPAN

July 21, 2005 (date)  
Yasuhiro INUI (signature of 3rd inventor)

**INVENTOR:**  
 Citizenship:  
 Post Office Address/  
 Residence:

\_\_\_\_\_  
 (date) (signature of 4th inventor)

**INVENTOR:**  
 Citizenship:  
 Post Office Address/  
 Residence:

\_\_\_\_\_  
 (date) (signature of 5th inventor)

**INVENTOR:**  
 Citizenship:  
 Post Office Address/  
 Residence:

\_\_\_\_\_  
 (date) (signature of 6th inventor)

Note: Prima facie evidence of execution may optionally be obtained by execution of this document before a U.S. Consul or before a local officer authorized to administer oaths whose authority is proved by a certificate from a U.S. Consul.