

02-12-2002

Attorney Docket No. 3064IT/50891

Form PTO-1595  
(Rev. 6-93)  
OMB No. 0651-0011 (exp. 4/94)



U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

101980323

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

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

**Toshihiro TAKAGI; Manabu YAMAMOTO;  
Yasuhiro INUI; Yusuke NISHIDA**

Additional name(s) of conveying party(ies) attached?

   yes   X   no

1-30-02

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

Name: **Funai Electric Co., Ltd.**

Internal Address:

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

City State Zip

Additional name(s) & address(es) attached

   yes   X   no

101980323  
10/05/03  
J1080 U.S. PTO  
01/30/02

## 3. Nature of Conveyance:

  X   Assignment    Merger  
   Security Agreement    Change of Name  
   Other:

Execution Date: **December 12, 2001**

## 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: **December 12, 2001**

A. Patent Application No.(s)

B. Patent No(s).

10,059031

Additional numbers attached?    Yes   X   No

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

**Crowell & Moring, LLP  
P.O. Box 14300  
Washington, D.C. 20044-4300**

6. Total number of applications and patents involved:   1  

7. Total Fee (37 CFR 3.41): **\$ 40.00**  
  X   Enclosed. Please charge any underpayment in connection with this Assignment to Deposit Account No. 05-1323

   Authorized to be charged to Deposit Account

## 8. Deposit Account No.

(Attach dupl. copy of this page if paying by Deposit Account)

02/11/2002 AWNED1 00000033 10059031

01 FC:581

40.00 00

DO NOT WRITE IN THIS SPACE

## 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.

Name **Jeffrey D. Sanok** Reg. No. 32,169

**January 30, 2002**  
Date

TOTAL NUMBER OF PAGES INCLUDING COVER SHEET, ATTACHMENTS, AND DOCUMENT:   3  

DO NOT USE THIS SPACE

Do not detach this portion

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents and Trademarks  
Box Assignments  
Washington, D.C. 20231

**PATENT**  
**REEL: 012554 FRAME: 0952**

## 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:

CHANNEL SELECTION DEVICE FOR USE IN DIGITAL/ANALOG BROADCASTING  
RECEIVER AND DIGITAL/ANALOG BROADCASTING RECEIVER EQUIPPED WITH  
THE SAME

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

  X   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.

<b>INVENTOR:</b>	Toshihiro TAKAGI
Citizenship:	Japanese
Post Office Address/	c/o 7-1, Nakagaito 7-chome
Residence:	Daito-shi, Osaka 574-0013, Japan
<u>2001.12.12</u>	<u>Toshihiro Takagi</u>
(date)	(signature of 1st inventor)

<b>INVENTOR:</b>	Manabu YAMAMOTO
Citizenship:	Japanese
Post Office Address/	c/o 7-1, Nakagaito 7-chome
Residence:	Daiot-shi, Osaka 574-0013, Japan
<u>2001.12.12</u>	<u>Manabu Yamamoto</u>
(date)	(signature of 2nd inventor)

**ASSIGNMENT**

Page 2 of 2

Attorney Docket No: 3064IT/50891

**INVENTOR:** Yasuhiro INUI  
Citizenship: Japanese  
Post Office Address/ c/o 7-1, Nakagaito 7-chome  
Residence: Daito-shi, Osaka 574-0013, Japan

2001, 12, 12

(date)

Yasuhiro Inui

(signature of 3rd inventor)

**INVENTOR:** Yusuke NISHIDA  
Citizenship: Japanese  
Post Office Address/ c/o 7-1, Nakagaito 7-chome  
Residence: Daito-shi, Osaka 574-0013, Japan

2001, 12, 12

(date)

Yusuke Nishida

(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.