

06-23-2004

Form PTO-1595  
(Rev. 10/02)  
OMB No. 0651-0027 (exp. 6/30/2005)  
Attorney Dkt # 038849.55066US



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1. Name of conveying party(ies):  
**Chiharu MATSUKAWA**  
*6-16-04*

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

17497 U.S. F.C.  
10/867770  
061604

3. Nature of conveyance:  
 Assignment  Merger  
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 Other

Execution Date: **June 10, 2004**

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: **June 10, 2004**

A. Patent Application No.(s)  
*10867770*

Additional number(s) attached  Yes  No

B. Patent Registration No.(s)

5. Name and address of party to whom correspondence concerning document should be mailed:  
Name: **Crowell & Moring LLP**  
**Intellectual Property Group**

Internal Address:  
**PO Box 14300**  
**Washington**  
**DC**  
**20044-4300**

6. Total number of applications and patents involved 1

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

*for* Jeffrey D. Sanok, 32,169      *Gary R Edwards*      June 16, 2004  
Name of Person Signing      Signature      Date

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

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PATENT  
REEL: 015480 FRAME: 0854

# 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.**  
of 7-1, Nakagaito 7-chome, Daito-shi, Osaka, Japan

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

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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:** Chiharu MATSUKAWA  
 Citizenship: Japan  
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 Osaka, Japan

June 10, 2004  
(date)

Chiharu Matsukawa  
(signature of 1st inventor)

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

\_\_\_\_\_  
(date)

\_\_\_\_\_  
(signature of 2nd inventor)

**INVENTOR:**