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11-10-2003

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To the Director of the United States P.

102596914

the attached original documents or copy thereof.

1. Name of conveying party(ies):

Toshihiro TAKAGI
Tatsuo MIYAGAWA
Yasuhiro INUI

11-3-03

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

Name: Funai Electric Co., Ltd.

Address: 7-1, Nakagaito 7-chome

Additional names(s) of conveying party(ies)

Yes No

Additional name(s) & address(es)

Yes No

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other

City: Daito-shi

State/Prov.: Osaka

Country: Japan

ZIP:

Execution Date: October 27, 2003

4. Application number(s) or patent numbers(s):

If this document is being filed together with a new application, the execution date of the application is: October 27, 2003

Patent Application No. Filing date

10/700,092

11/03/2003

B. Patent No.(s)

NOV 2003

Additional numbers

Yes No

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

Name: Jonathan P. Osha

Registration No. 33,986

Address: ROSENTHAL & OSHA L.L.P.

1221 McKinney Street, Suite 2800

City: Houston

State/Prov.: TX

Country: U.S.A.

ZIP: 77010

6. Total number of applications and patents involved:

1

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

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Name of Person Signing

Signature

11/3/03

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11/03/2003 LINDSEY MUELLER 04995/125001 0381 J

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ROSENTHAL & OSHA L.L.P.**ASSIGNMENT****譲渡証**

本証末尾に署名した者（以下、「発明者」という）は、適正・相当な対価を受領しており、それが十分な対価であることを認識した上で、

（氏名または組織名）

（住所）

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（発明の名称）

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For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the undersigned individual(s) (referred to herein as "INVENTOR(S)") hereby assign, transfer and set over to:

FUNAI ELECTRIC CO., LTD.
having the following address:
7-1, Nakagaito 7-chome, Daito-shi,
Osaka, Japan

(referred to herein as "COMPANY"), its successors and assigns, the entire right, title, and interest for the United States of America (including without limitation its territories and possessions) in and to the invention known by the following title:

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for which the undersigned has/have executed an application for patent in the United States of America (referred to herein as "INVENTION"), together with said patent application, all divisions, continuations, continuations-in-part, reissues, and extensions thereof, and all United States Letters Patent which may be granted therefor. Such interest represents the entire ownership of said applications and Letters Patent when granted and is to be owned by COMPANY, its successors, and assigns, or their legal representatives, for the full and entire term for which such Letters Patent may be granted or extended, as fully and entirely as the same would have been enjoyed by the INVENTOR(S) if this assignment had not been made.

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さらに、本証末尾に署名した発明者は、それぞれ、以下のとおり同意する。

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In addition, the undersigned INVENTOR(S) each hereby agrees:

1. To sign and execute any further documents which may be necessary or desirable, lawful and proper in connection with the prosecution of all applications for patent(s) on the INVENTION in the United States, including without limitation said application and all divisions, continuations, continuations-in-part, amendments thereof and all interference proceedings associated therewith, or otherwise necessary or desirable to secure the title thereto to COMPANY;
2. To execute all papers and documents and to perform all lawful acts which may be necessary in connection with claims to priority or otherwise under the International Convention for the Protection of Industrial Property or similar treaties or agreements;
3. To perform all lawful affirmative acts which may be necessary to obtain the grant of a valid and enforceable patent to COMPANY;

The undersigned INVENTOR(S) each hereby authorizes and requests the Commissioner of Patents and Trademarks in the United States to issue any and all Letters Patent resulting from said application, including without limitation any division, continuation, continuation-in-part, or reissue thereof to COMPANY.

The undersigned INVENTOR(S) each hereby grants to the firm of ROSENTHAL & OSHA L.L.P. 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 and Trademark Office for the recordation of this document.

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以上を確認の上、下記の者が下記署名に並んで記された日に各自署名して本譲渡証を発効させた。

IN WITNESS WHEREOF, this Assignment has been executed by each of the undersigned individuals on the date appearing by such individual's signature

_____ (署名) 年月日	_____ 氏名 (楷書) :	October 27, 2003 Date	<u>Toshihiro Takagi</u> Print or Typed Name: TOSHIHIRO TAKAGI
_____ (署名) 年月日	_____ 氏名 (楷書) :	October 27, 2003 Date	<u>Tatsuo Miyagawa</u> Print or Typed Name: TATSUO MIYAGAWA
_____ (署名) 年月日	_____ 氏名 (楷書) :	October 27, 2003 Date	<u>Yasuhiro Inui</u> Print or Typed Name: YASUHIRO INUI
_____ (署名) 年月日	_____ 氏名 (楷書) :	_____ Date	_____ Print or Typed Name:
_____ (署名) 年月日	_____ 氏名 (楷書) :	_____ Date	_____ Print or Typed Name:
_____ (署名) 年月日	_____ 氏名 (楷書) :	_____ Date	_____ Print or Typed Name:

本譲渡証はアメリカ合衆国のいずれかの州の公証人または下記に署名する2名の証人の面前で署名されるものとする。

This Assignment may be signed before a Notary Public for one of the States of the United States or before two witnesses who sign below:

_____ (署名) 年月日	_____ 氏名 (楷書) :	_____ Date	_____ Print or Typed Name:
_____ (署名) 年月日	_____ 氏名 (楷書) :	_____ Date	_____ Print or Typed Name:

本譲渡証が特許申請書と同時に提出されなかった場合、下記識別情報が後に追加されるものとする。
米国申請シリアル番号 :
申請日 :

Where this Assignment is not filed concurrently with the patent application, the following identifying information may be added after execution:
U.S. Application Serial No.:
Filing Date: