

PATENT ASSIGNMENT

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SUBMISSION TYPE:

NEW ASSIGNMENT

NATURE OF CONVEYANCE:

ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Kenji NAGASHIMA	04/19/2010
Hirono TSUBOTA	04/19/2010
Takahiko SUZUKI	06/20/2010
Nobuyuki SAKO	06/20/2010
Takeshi KODAIRA	06/20/2010

RECEIVING PARTY DATA

Name:	Funai Electric Co., Ltd.
Street Address:	7-1, 7-chome, Nakagaito
City:	Daito-shi, Osaka
State/Country:	JAPAN
Postal Code:	574-0013

Name:	PRO-TECH DESIGN CORPORATION
Street Address:	10-7, Gongen-cho 2-chome, Osachi
City:	Okaya-shi, Nagano
State/Country:	JAPAN
Postal Code:	394-0081

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12764670

CORRESPONDENCE DATA

Fax Number: (202)628-8844

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OP \$40.00 12764670

501222073

PATENT
REEL: 024625 FRAME: 0236

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Address Line 2:	P.O. Box 14300
Address Line 4:	Washington, DISTRICT OF COLUMBIA 20044-4300

ATTORNEY DOCKET NUMBER:	102281.62362US
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NAME OF SUBMITTER:	Jeffrey D. Sanok
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Total Attachments: 4 source=62362USAssignment#page1.tif source=62362USAssignment#page2.tif source=62362USAssignment#page3.tif source=62362USAssignment#page4.tif
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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:

- (1) Funai Electric Co., Ltd.
7-1, 7-chome, Nakagaito, Daito-shi, Osaka, 574-0013, Japan
- (2) PRO-TECH DESIGN CORPORATION
10-7, Gongen-cho 2-chome, Osachi, Okaya-shi, Nagano 394-0081 Japan

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

ROTARY INPUT DEVICE AND ELECTRONIC EQUIPMENT

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

- ☒ executed concurrently herewith,
- ☐ executed on _____,
- ☐ Serial No. _____, filed _____,
- ☐ PCT International Application, 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.

Signature:
Inventor one:

Kenji NAGASHIMA
Kenji NAGASHIMA

Apr. 19, 2010
DATE

ASSIGNMENT

Attorney Docket No.: 102281.62362US

Signature:	<u>Hirono TSUBOTA</u>	<u>Apr. 19, 2010</u>
Inventor two:	<u>Hirono TSUBOTA</u>	<u>DATE</u>
Signature:	<u>Takahiko SUZUKI</u>	<u>DATE</u>
Inventor three:	<u>Takahiko SUZUKI</u>	<u>DATE</u>
Signature:	<u>Nobuyuki SAKO</u>	<u>DATE</u>
Inventor four:	<u>Nobuyuki SAKO</u>	<u>DATE</u>
Signature:	<u>Takeshi KODAIRA</u>	<u>DATE</u>
Inventor five:	<u>Takeshi KODAIRA</u>	<u>DATE</u>
Signature:	<u></u>	<u>DATE</u>
Inventor six:	<u></u>	<u>DATE</u>
Signature:	<u></u>	<u>DATE</u>
Inventor seven:	<u></u>	<u>DATE</u>
Signature:	<u></u>	<u>DATE</u>
Inventor eight:	<u></u>	<u>DATE</u>
Signature:	<u></u>	<u>DATE</u>
Inventor nine:	<u></u>	<u>DATE</u>
Signature:	<u></u>	<u>DATE</u>
Inventor ten:	<u></u>	<u>DATE</u>
Citizen of		

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.

ASSIGNMENT

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

- ☒ executed concurrently herewith,
☐ executed on ____,
☐ Serial No. ____, filed ____,
☐ PCT International Application, No.: ____, filed ____,

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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.

Signature:


Inventor one:

Kenji NAGASHIMA

DATE

ASSIGNMENT

Attorney Docket No.: 102281.62362US

Signature: Inventor two:	<u>Hirono TSUBOTA</u>	<u>DATE</u>
Signature: Inventor three:	<u></u> Takahiko SUZUKI	<u>6/20/2010</u> DATE
Signature: Inventor four:	<u>SAKO</u> Nobuyuki SAKO	<u>6/20/2010</u> DATE
Signature: Inventor five:	<u>小平 剛志</u> Takeshi KODAIRA	<u>6/20/2010</u> DATE
Signature: Inventor six:	<u></u>	<u>DATE</u>
Signature: Inventor seven:	<u></u>	<u>DATE</u>
Signature: Inventor eight:	<u></u>	<u>DATE</u>
Signature: Inventor nine:	<u></u>	<u>DATE</u>
Signature: Inventor ten: Citizen of	<u></u>	<u>DATE</u>

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.