PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Manabu Murayama	03/25/2008
Shigeo Maeda	04/16/2008

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	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12099519

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER: 17267/031001

NAME OF SUBMITTER: Sarah J. Buta

Total Attachments: 2

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PATENT REEL: 020949 FRAME: 0769

Assignment – U.S. Rights Only

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

Funai Electric Co., Ltd.

having the following address:

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

PIEZOELECTRIC ELEMENT AND FILM FORMATION METHOD FOR CRYSTALLINE CERAMIC

for which the undersigned has/have executed an application for patent in the United States of America on or about this same day, 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.

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

- 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;
- 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;
- 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 OSHA • LIANG LLP 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.

OSHA : LLANGILP

indiv	. IN WITNESS WH iduals on the date appearing b	FREOF, this Assignment has by such individual's signature:	been executed by each of the undersigned
. <u>'M</u> a	<u>u 25. 2008</u>	1 st Inventor Signature; <u>///</u> Print or Type Name:	anabu Murayama) Manabu Murayama
A	Date Date	2 nd Inventor Signature; Print or Type Name:	Thise marked
	Date	3 rd Inventor Signature: Print or Type Name:	
Docum	Date	4 th Inventor Signature: Print or Type Name:	
Docum	the second secon	This Assignment may be signed be of the States of the United States	efore either: or (b) two witnesses who sign below:
	State of County of Refore me personally appeared:		
		1 st Inventor	2 rd Inventor
NOTARY PUBLIC	execute tais Assignment	d layester and also represented that he/she is authorized to	
A (Ta)	Dated:	Notary Public	My commission expires:
TNESSES	Date	Signature of Witness: Print or Type Name:	
MIT	Date	Signature of Witness: Print or Type Name;	
	the following	ment is <u>not</u> filed concurrently identifying information may be	added after execution:
	U.S. Applic	ation Serial No.: 12/099, Filing Date: 04/08/20	510
ASSIG	NMENT – U.S. RIGHTS ON	Υ	Page 2

OSHLA + LIANG LLP

RECORDED: 05/15/2008