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To the Assistant Commissioner of Patents and Trademarks: Please record the attached original document or copy thereof.		
1. Name of conveying party(ies):	Name and Address of receiving party(ies):	
1. Name of conveying party(ies): Takuya SAWADA Masahiko KIMURA Akira ANDO Koichi HAYASHI	Murata Manufacturing Co., Ltd. 26-10, Tenjin 2-chome Nagaokakyo-shi, Kyoto-fu 617-8555 Japan	
Type of Entity: Individuals	Type of Entity: Corporation-Japan	
Additional names(s) of conveying party(ies) attached? No	Additional name(s) & address(es) attached? No	
3. Nature of Conveyance:		
Assignment		
Execution Date: June 22, 2000		
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:		
A. Application No.(s)	B. Patent No.(s)	
09/577,087		
Additional numbers attached? No		
Name and address of party to whom correspondence concerning document should be mailed:	Total number of documents involved: 1	
OSTROLENK, FABER, GERB & SOFFEN, LLP 1180 Avenue of the Americas New York, New York 10036-8403	7. Total fee (37 CFR 3.41): \$ 40.00	
	Enclosed as part of Check No. 095720	
	In the event the actual fee is greater than the payment submitted or is inadvertently not enclosed or if any additional fee due is not paid, the Patent and Trademark Office is authorized to charge the underpayment to Deposit Account No. 15-0700.	
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8. 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. Edward A. Meilman Edward Signature Date		
Name of Person Signing Total number of pages including cover sheet, attachments, and document: 2		
Total number of pages including cover sheet, attachments, and		

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PATENT REEL: 010945 FRAME: 0599



WHEREAS, We, Takuya SAWADA, Masahiko KIMURA, Akira ANDO and Koichi HAYASHI, as assignors, have invented certain improvements in PIEZOELECTRIC CERAMIC COMPOSITION AND PIEZOELECTRIC CERAMIC ELEMENT USING THE SAME for which an application for United States Letters Patent has been executed by us of even date herewith; and

WHEREAS, Murata Manufacturing Co., Ltd., 26-10, Tenjin 2-chome, Nagaokakyo-shi, Kyoto-fu 617-8555, Japan, as assignee, is desirous of acquiring all right, title and interest in and to said invention and any Patent that may be granted therefor.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, We, as assignors, hereby sell, assign and set over to said assignee the entire right, title and interest for the United States and all other countries in and to said invention and the aforesaid application for Patent, all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States and all other countries, including all rights of priority from the filing of said application, and all rights for past infringement, and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said inventions or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for ourselves and our legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all divisional, continuation, reissue and other applications for Patent on said inventions and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said inventions, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to assist assignee, its successors, assigns and nominees to obtain patent protection for said invention in the United States and all other countries, the expenses incident to said applications to be borne and paid by said assignee.

Date:	June 22. 2600	Takuya Sawada
Date.	25000	Takuya SAWADA
D-4-	June 22, 2000	Masapike Kimura
Date:	Masahiko KIMURA	
Date:	Ine 22,2000	Akiza yndo
June 32, 2000	Akira ANDO	
Date: Korishi Houpest 6/20/10 th		Horali Hayashi
	Koichi HAYASHI	

LEGALIZATION RECOMMENDED

RECORDED: 07/24/2000

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