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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof

1. Name of conveying party(ies): Hirozumi Ogawa (), Akira Ando (), and Masahiko Kimura () S-22-02 Additional name(s) of conveying party(ies) attached? [ ] Yes [x] No

2. Name and address of receiving party(ies) Name: Murata Manufacturing Co., Ltd. Internal Address: Street Address: Murata Manufacturing Co., Ltd. (A170) Intellectual Property Department 26-10, Tenjin 2-chome, Nagaokakyo-shi City: Kyoto-fu State: Japan Zip: 617-8555 Additional name(s) & address(es) attached: [ ] Yes [x] No

3. Nature of Conveyance: [x] Assignment [ ] Merger [ ] Security Agreement [ ] Change of Name [ ] Other Execution Date: 5/11/02 and 5/16/02

4. Application number(s) or patent number(s): 10130675 If this document is being filed together with a new application, the execution date of the new application is: A. Patent Application No.(s): PCT/JP01/07993 B. Patent No.(s): Additional numbers attached? [ ] Yes [x] No

5. Name and address of party to whom correspondence concerning document should be mailed: Name: Edward A. Meilman DICKSTEIN SHAPIRO MORIN & OSHINSKY LLP Internal Address: Atty. Dkt.: M1071.1724/0US0 Street Address: 1177 Avenue of the Americas 41st Floor City: New York State: NY Zip: 10036-2714

6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41) \$ 40.00 [x] Enclosed [ ] Authorized to be charged to deposit account 8. Deposit account number: 50-2215 (Attach duplicate copy of this page if paying by deposit account)

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9. Statement and signature. 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 Signature May 22, 2002 Date Total number of pages including cover sheet, attachments, and documents: 2

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PATENT REEL: 013119 FRAME: 0934

PATENT APPLICATION ASSIGNMENT  
SOLE OR JOINT INVENTORS  
EXECUTED OUTSIDE U.S.A.

FILE NO. M1071.1724/0USO

WHEREAS, We, Hirozumi OGAWA, Masahiko KIMURA and Akira ANDO, as assignors, have invented certain improvements in PIEZOELECTRIC CERAMIC AND PIEZOELECTRIC CERAMIC ELEMENT INCLUDING 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: 5/11/2002

Hirozumi Ogawa  
Hirozumi OGAWA

Date: 5/11/2002

Masahiko Kimura  
Masahiko KIMURA

Date: May/16/2002

Akira Ando  
Akira ANDO

LEGALIZATION RECOMMENDED

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

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Akira Ando  
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