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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original document.

Name of conveying party(ies): **Tetsuo TAKESHIMA, Yoshitaka NAKAMURA, and Kiyotaka TAJIMA**Additional name(s) of conveying party(ies) attached? ☐ yes ☒ no

6-26-02

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

(2a.)

Name: Murata Manufacturing Co., Ltd.Address: 26-10 Tenjin 2-chome, Nagaokakyo-shi, Kyoto-fu 617-8555, Japan

3. Name of Conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

(2b.)

Name _____

Address: _____

Additional name(s) & address(es) attached? ☐ yes ☒ noExecution Date: June 21, 2002

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

10180002

If this document is being filed together with a new application, the execution date of the application is: June 26, 2002

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached ☐ yes ☒ no

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

Name: Joseph R. Keating, Esq.Internal Address: KEATING & BENNETT LLPStreet Address: 10400 Eaton Place, Suite 312City: Fairfax State: VA ZIP 22030

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02 FC:581

40.00 OP

6. Total number of applications and patents involved: one

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

- ☐ Enclosed
☒ Authorized to be charged to credit card with Credit Card Payment Form (PTO-2038)
☐ Authorized to be charged to deposit account

8. Deposit account number: 50-1353

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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.

Joseph R. Keating, Reg. No. 37,368
 Name of Person Signing

 Signature

June 26, 2002
 Date
Total number of pages comprising cover sheet, attachments and document: 2

Mail documents to be recorded with required cover sheet information to:

 Assistant Commissioner for Patents
 Box Assignment
 Washington, D.C. 20231

 PATENT
 REEL: 013049 FRAME: 0824

Attorney Docket No.: 36856.729

ASSIGNMENT (WORLDWIDE)

WHEREAS, We, Tetsuo TAKESHIMA, Yoshitaka NAKAMURA, and Kiyotaka TAJIMA (hereinafter referred to as ASSIGNOR), have invented and own a certain invention entitled PIEZOELECTRIC ELECTROACOUSTIC TRANSDUCER for which application for Letters Patent of the United States has been

X executed on even date herewith;
filed on _____ as Serial No. _____.

WHEREAS, Murata Manufacturing Co., Ltd., 26-10, Tenjin 2-chome, Nagaokakyo-shi, Kyoto-fu 617-8555 JAPAN (hereinafter referred to as ASSIGNEE), is desirous of acquiring the entire interest in, to and under said invention and the United States Letters Patent to be obtained therefor;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that in consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration, ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the full and exclusive right, title and interest to the said invention and all Letters Patent of the United States to be obtained therefor on said application or any continuation, division, renewal, substitute or reissue thereof for the full term or terms for which the same may be granted; and all Letters Patent and applications therefor through the world, including all the rights accruing by virtue of the International Convention for the Protection of Industrial Property.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain and enforce said application, said invention and said Letters Patent which may be necessary or desirable to carry out the purposes hereof.

Dated: 6/21/2002

Tetsuo Takeshima
Tetsuo TAKESHIMA

Dated: 6/21/2002

Yoshitaka Nakamura
Yoshitaka NAKAMURA

Dated: 6/21/2002

Kiyotaka Tajima
Kiyotaka TAJIMA