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HEET

MAR 12-9-99

To the Honorable Commissioner of Patents and Trademarks

101238933

1. Name of conveying party(ies): Hiroaki KAIDA

Additional name(s) of conveying party(ies) attached?  yes  no

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  no

Execution Date: November 25, 1999

4. 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: November 25, 1999

A. Patent Application No.(s)

09458469

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: GRAHAM & JAMES LLP

Street Address: 801 S. Figueroa St., 14th Fl.

City: Los Angeles State: CA ZIP 90017-5554

6. Total number of applications and patents involved: one

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

- Enclosed
- Authorized to be charged to deposit account

8. Deposit account number: \_\_\_\_\_

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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

*Joseph R. Keating*  
Signature

December 9, 1999

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

01/05/2000 DNGUYEN 00000297 09458469

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Attorney Docket No.: 36856.233

**ASSIGNMENT (WORLDWIDE)**

WHEREAS, I, **Hiroaki KAIDA** (hereinafter referred to as ASSIGNOR), have invented and own a certain invention entitled **THICKNESS EXTENSIONAL PIEZOELECTRIC RESONATOR AND PIEZOELECTRIC RESONANCE COMPONENT INCORPORATING SAME** 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: November 25, 1999

Hiroaki Kaida  
**Hiroaki KAIDA**