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

Name of conveying party(ies): **Michio KADOTA, Hideya HORIUCHI, Junya AGO, Takeshi NAKAO, and Yasuhiro KURATANI**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 ☒ noExecution Date: **August 26, 27, 28, and September 4, 2002**

4. Application number(s) or patent number(s): 10/218,017

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

A. Patent Application No.(s) 10/218,017

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

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

September 27, 2002

Date

10/03/2002 LNUELLER 00000077 10218017

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Total number of pages comprising cover sheet, attachments and document: 3

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

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

PATENT
 REEL: 013341 FRAME: 0945

ASSIGNMENT (WORLDWIDE)

WHEREAS, We, **Michio KADOTA, Hideya HORIUCHI, Junya AGO, Takeshi NAKAO, and Yasuhiro KURATANI** (hereinafter referred to as ASSIGNOR), have invented and own a certain invention entitled **END-SURFACE REFLECTION TYPE SURFACE ACOUSTIC WAVE FILTER** for which application for Letters Patent of the United States has been

____ executed on even date herewith;
X filed on August 14, 2002 as Serial No. 10/218,017.

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: Aug. 26, 2002

Michio Kadota
Michio KADOTA

Dated: August 26, 2002

Hideya Horichi
Hideya HORIUCHI

Dated: September 2, 2002

Junya Ago
Junya AGO

Dated: 8/28/2002

Takeshi Nakao
Takeshi NAKAO

Dated: 8/27/2002

Yasuhiro Kuratani
Yasuhiro KURATANI