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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): Masanobu WATANABE and Kazuhiro INOUE
1-23-02Additional 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

(2b.)

Name _____

Address: _____

Additional name(s) & address(es) attached? ☐ yes ☒ no

3. Name of Conveyance:



Assignment



Merger



Security Agreement



Change of Name



Other _____

Execution Date: November 12 and 13, 20014. Application number(s) or patent number(s): 09/957,895

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

A. Patent Application No.(s) 09/957,895

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 220306. Total number of applications and patents involved: one7. Total fee (37 CFR 3.41):.....\$ 40.00

Enclosed



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8. Deposit account number: 50-1353

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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.

Christopher A. Bennett, Reg. No. 46,710

Name of Person Signing

Signature

November 20, 2001
DateTotal 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. 20231PATENT
REEL: 012540 FRAME: 0336

ASSIGNMENT (WORLDWIDE)

WHEREAS, We, Masanobu WATANABE and Kazuhiro INOUE (hereinafter referred to as ASSIGNOR), have invented and own a certain invention entitled **SURFACE ACOUSTIC WAVE ELEMENT** for which application for Letters Patent of the United States has been

_____ executed on even date herewith;

X filed on September 22, 2001 as Serial No. 09/957,895.

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: 11/12/2001

Masanobu WATANABE
Masanobu WATANABE

Dated: 11/13/2001

Kazuhiro INOUE
Kazuhiro INOUE