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U.S. DEPARTMENT OF COMMERCE
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copy thereof.

<p>1. Name of conveying party(ies):</p> <p>Hideo KIDOH</p> <p><input checked="" type="checkbox"/> Individual(s) <input type="checkbox"/> Association <input type="checkbox"/> General Partnership <input type="checkbox"/> Limited <input type="checkbox"/> Corporation-State Partnership <input type="checkbox"/> Other</p> <p>Additional name(s) of conveying parties attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>		<p>2. Name and address of receiving party(ies):</p> <p>Name: Murata Manufacturing Co.Ltd. Internal Address: Street Address: 26-10 Tenjin, 2-chome Nagaokakyo-shi, Kyoto-fu, Japan: State: Zip: 617-8555</p> <p><input type="checkbox"/> Individual(s) citizenship <input type="checkbox"/> Association <input type="checkbox"/> General Partnership <input type="checkbox"/> Limited Partnership <input checked="" type="checkbox"/> Corporation- Japanese <input type="checkbox"/> Other</p> <p>Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	
<p>3. Nature of Conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other</p> <p>Execution Date: March 25, 1999</p>			
<p>4. Application number(s) or Patent number(s):</p> <p>A. Patent Application No.(s) 09/196,457</p>		<p>B. Patent No.(s)</p>	
<p>Additional numbers attached ? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>			
<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Jesse D. Reingold, Esq. Intellectual Property Department GRAHAM & JAMES, LLP 885 Third Avenue New York, New York 10022-4834 Telephone: (212) 848-1000</p>		<p>6. Total number of applications and registrations involved:</p> <p>1</p>	
		<p>7. Total fee (37 CFR 3.41): \$40.00</p> <p><input checked="" type="checkbox"/> Enclosed, and <input checked="" type="checkbox"/> We authorize any deficiency to be charged to deposit account:</p>	
		<p>8. Deposit account number: 07-1855 (A duplicate copy of this page is attached.)</p>	
<p>DO NOT USE THIS SPACE</p>			
<p>9. Statement and signature.</p> <p><i>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.</i></p> <p>Name of person signing: Jesse D. Reingold, Esq. Signature Reg. No. 20,461</p> <p>March 31, 1999 Dated</p> <p>Total number of pages including cover sheet, attachments, and document: 2</p>			
<p>66 Mail documents to be recorded with required cover sheet information to:</p>			

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Commissioner of Patents and Trademarks
Box Assignments
Washington, D.C. 20231

Attorney Docket No.: 36856.158

ASSIGNMENT (WORLDWIDE)

WHEREAS, I, **Hideo KIDOH** (hereinafter referred to as ASSIGNOR), have invented and own a certain invention entitled **UNIDIRECTIONAL SURFACE ACOUSTIC WAVE TRANSDUCER AND TRANSVERSAL-TYPE SAW FILTER HAVING THE SAME** for which application for Letters Patent of the United States has been

- ☐ executed on even date herewith;
☒ filed on November 19, 1998 as Serial No. 09/196,457.

WHEREAS, **Murata Manufacturing Co., Ltd., 26-10, Tenjin 2-chome, Nagaokakyo-shi, Kyoto 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: March 25, 1999

Hideo Kidoh
Hideo KIDOH