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thereof

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|--|---|
| <p>1. Name of conveying party(ies):</p> <p>Mamoru OGAWA<br/>Toshio NISHIMURA<br/>Toshiyuki BABA<br/>Jiro INOUE<br/>Shigemasa KUSABIRAKI<br/>Tetsuo TAKESHIMA<br/>Takeshi YAMAZAKI</p> <p><input checked="" type="checkbox"/> Individual(s)      <input type="checkbox"/> Association<br/> <input type="checkbox"/> General Partnership      <input type="checkbox"/> Limited<br/> <input type="checkbox"/> Corporation-State      Partnership<br/> <input type="checkbox"/> Other</p> <p>Additional name(s) of conveying parties attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> | <p>2. Name and address of receiving party(ies)</p> <p>Name: MURATA Manufacturing Co., Ltd.<br/>Internal Address:<br/>Street Address: 26-10, Tenjin 2-chome<br/>Nagaokakyo-shi, Kyoto-fu, JAPAN<br/>State:      Zip: 617-8555</p> <p><input type="checkbox"/> Individual(s) citizenship<br/> <input type="checkbox"/> Association<br/> <input type="checkbox"/> General Partnership<br/> <input type="checkbox"/> Limited Partnership<br/> <input checked="" type="checkbox"/> Corporation- Japanese<br/> <input type="checkbox"/> Other</p> <p>Additional name(s) &amp; 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<br/> <input type="checkbox"/> Security Agreement      <input type="checkbox"/> Change of Name<br/> <input type="checkbox"/> Other</p> <p>Execution Date: June 8, 9, 11, 1998</p>  |   |
| <p>4. Application number(s) or Patent number(s):</p> <p>A. Patent Application No.(s) 09/065,998</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<br/>Intellectual Property Department<br/>GRAHAM &amp; JAMES. LLP<br/>885 Third Avenue<br/>New York, New York 10022-4834<br/>Telephone: (212) 848-1000</p>  | <p>6. Total number of applications and registrations involved: 1</p> <p>7. Total fee (37 CFR 3.41): \$40.00</p> <p><input checked="" type="checkbox"/> Enclosed, and<br/> <input checked="" type="checkbox"/> We authorize any deficiency to be charged to deposit account: <i>ms</i></p> <p>8. Deposit account number: 07-1855<br/>(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. <i>JDR</i> Signature</p> <p>Reg. No. 20,461</p> <p>Total number of pages including cover sheet, attachments, and documents: 3</p> <p>June 16, 1998 Dated</p>  |   |
| <p>66 Mail documents to be recorded with required cover sheet information to:</p> <p>Commissioner of Patents and Trademarks<br/>Box Assignments<br/>Washington, D.C. 20231</p>   |   |

**ASSIGNMENT (WORLDWIDE)**

WHEREAS, I, Mamoru OGAWA, Toshio NISHIMURA, Toshiyuki BABA, Jiro INOUE, Shigemasa KUSABIRAKI, Tetsuo TAKESHIMA and Takeshi YAMAZAKI (hereinafter referred to as ASSIGNOR), have invented and own a certain invention entitled **PIEZOELECTRIC RESONATOR AND ELECTRONIC COMPONENT** INCLUDING SAME for which application for Letters Patent of the United States has been

\_\_\_\_ executed on even date herewith;  
X filed on April 24, 1998 as Serial No. 09/065,998

WHEREAS, Murata Manufacturing Co., Ltd., 26-10, 2-chome, Tenjin, 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: June 8, 1998

  
Mamoru OGAWA

Dated: June 8, 1998

  
Toshio NISHIMURA

Dated: June 9. 1998

Toshiyuki Baba  
Toshiyuki BABA

Dated: June 9. 1998

Jiro Inoue  
Jiro INOUE

Dated: June, 11, 1998

Shigemasa Kusabiraki  
Shigemasa KUSABIRAKI

Dated: June, 11, 1998

Tetsuo Takeshima  
Tetsuo TAKESHIMA

Dated: June, 11, 1998

Takeshi Yamazaki  
Takeshi YAMAZAKI