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OMB No. 0651-0027 (exp. 5/31/2002)

PATENTS ONLY

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

1. Name of conveying party(ies):

Shigeji Arakawa, Tatsuya Tsujiguchi, Munehisa Watanabe, and Yukihiro Kitaichi

02.11.03

Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)

Name: Murata Manufacturing Co., Ltd.

Internal Address:

Street Address:

Murata Manufacturing Co., Ltd. (A-170) Intellectual Property Department 26-10, Tenjin 2-chome Nagaokakyo-Shi

City: Kyoto-fu

Country: JP Zip: 617-8555

Additional name(s) & address(es) attached: Yes No

3. Nature of Conveyance:

Assignment Merger Security Agreement Change of Name Other

Execution Date: 1/28, 1/29 and 1/31/03

4. Application number(s) or patent number(s):

10361683

If this document is being filed together with a new application, the execution date of the new application is: 1/28, 1/29 and 1/31/03

A. Patent Application No.(s):

B. Patent No.(s):

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Richard LaCava DICKSTEIN SHAPIRO MORIN & OSHINSKY LLP

Internal Address: Atty. Dkt.: M1071.1813/P1813

Street Address: 1177 Avenue of the Americas 41st Floor

City: New York State: NY Zip: 10036-2714

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41) \$ 40.00 Enclosed Authorized to be charged to deposit account Authorized to be charged to credit card (Form 2038 enclosed)

8. Deposit account number: 50-2215 (Attach duplicate copy of this page if paying by deposit account)

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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.

Richard LaCava Name of Person Signing

Richard LaCava Signature

February 10, 2003 Date

Total number of pages including cover sheet, attachments, and documents: 3

10/361683 02/11/03

57979 v1; 18QJ011.DOC

02/13/2003 AWQNDAF1 00000011 10361683

02 FC:8021

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PATENT REEL: 013756 FRAME: 0627

WHEREAS, We, Shigeji ARAKAWA, Tatsuya TSUJIGUCHI, Munehisa WATANABE and Yukihiro KITAICHI, as assignors, have invented certain improvements in DIELECTRIC RESONATOR DEVICE, DIELECTRIC FILTER, DIELECTRIC DUPLEXER, AND COMMUNICATION APPARATUS for which an application for United States Letters Patent has been executed by us of even date herewith; and

WHEREAS, Murata Manufacturing Co., Ltd., 26-10, Tenjin 2-chome, Nagaokakyo-shi, Kyoto-fu 617-8555, Japan, as assignee, is desirous of acquiring all right, title and interest in and to said invention and any Patent that may be granted therefor.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, We, as assignors, hereby sell, assign and set over to said assignee the entire right, title and interest for the United States and all other countries in and to said invention and the aforesaid application for Patent, all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States and all other countries, including all rights of priority from the filing of said application, and all rights for past infringement, and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said inventions or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for ourselves and our legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all divisional, continuation, reissue and other applications for Patent on said inventions and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said inventions, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to assist assignee, its successors, assigns and nominees to obtain patent protection for said invention in the United States and all other countries, the expenses incident to said applications to be borne and paid by said assignee.

Date: January 29, 2003

Shigeji Arakawa
Shigeji ARAKAWA

Date: _____

Tatsuya TSUJIGUCHI

Date: _____

Munehisa WATANABE

Date: _____

Yukihiro KITAICHI

LEGALIZATION RECOMMENDED

WHEREAS, We, Shigeji ARAKAWA, Tatsuya TSUJIGUCHI, Munehisa WATANABE and Yukihiro KITAICHI, as assignors, have invented certain improvements in DIELECTRIC RESONATOR DEVICE, DIELECTRIC FILTER, DIELECTRIC DUPLEXER, AND COMMUNICATION APPARATUS for which an application for United States Letters Patent has been executed by us of even date herewith; and

WHEREAS, Murata Manufacturing Co., Ltd., 26-10, Tenjin 2-chome, Nagaokakyo-shi, Kyoto-fu 617-8555, Japan, as assignee, is desirous of acquiring all right, title and interest in and to said invention and any Patent that may be granted therefor.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, We, as assignors, hereby sell, assign and set over to said assignee the entire right, title and interest for the United States and all other countries in and to said invention and the aforesaid application for Patent, all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States and all other countries, including all rights of priority from the filing of said application, and all rights for past infringement, and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said inventions or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for ourselves and our legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all divisional, continuation, reissue and other applications for Patent on said inventions and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said inventions, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to assist assignee, its successors, assigns and nominees to obtain patent protection for said invention in the United States and all other countries, the expenses incident to said applications to be borne and paid by said assignee.

Date: _____

Shigeji ARAKAWA

Date: January 31, 2003

Tatsuya Tsujiguchi
Tatsuya TSUJIGUCHI

Date: January 29, 2003

Munehisa Watanabe
Munehisa WATANABE

Date: January 28, 2003

Yukihiro Kitaichi
Yukihiro KITAICHI

LEGALIZATION RECOMMENDED