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PATENTS ONLY

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Masayuki Atokawa, Nobuyoshi Honda, and Kyoji Matsunaga

Additional name(s) of conveying party(ies) attached?

☐ Yes☒ No

3. Nature of Conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other

Execution Date: May 27, 2002

2. Name and address of receiving party(ies)

Name: Murata Manufacturing Co., Ltd.,

26-10, Tenjin 2-chome,  
Internal Address: Nagaokakyo-shi,

Street Address:

City: Kyoto-fu 617-8555, Japan

State: Zip:

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

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

If this document is being filed together with a new application, the execution date of the new application is: May 30, 2002

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.: M1071.1727/P1727

Street Address: 1177 Avenue of the Americas  
41st FloorCity:  
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

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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.*Richard LaCava  
Name of Person Signing

Signature

May 30, 2002  
Date

Total number of pages including cover sheet, attachments, and documents: 2

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Dated: May 30, 2002

Signature:

Richard LaCava

(Richard LaCava)

PATENT  
REEL: 012976 FRAME: 0556J1040 U.S. Pat.  
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PATENT APPLICATION ASSIGNMENT \_  
SOLE OR JOINT INVENTORS  
EXECUTED OUTSIDE U.S.A.

FILE NO. M1071.1727

WHEREAS, WE, Masayuki ATOKAWA, Nobuyoshi HONDA and Kyoji MATSUNAGA, as assignors, have invented certain improvements in VARIABLE-FREQUENCY RESONATOR CIRCUIT, VARIABLE-FREQUENCY FILTER, SHARED-ANTENNA DEVICE, AND COMMUNICATION DEVICE 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: May 27, 2002

Masayuki Atokawa  
Masayuki ATOKAWA

Date: May 27, 2002

Nobuyoshi Honda  
Nobuyoshi HONDA

Date: May 27, 2002

Kyoji Matsunaga  
Kyoji MATSUNAGA

LEGALIZATION RECOMMENDED