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original document or copy thereof.

1. Name of conveying party(ies):

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Dept. A170, 26-10, Tenjin 2-chome,
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2) Kikuo Tsunoda
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Type of Entity: Individuals

Additional names(s) of conveying party(ies) attached? Yes

2. Name and Address of receiving party(ies):

Murata Manufacturing Co., Ltd.
Dept. A170, 26-20, Tenjin 2-chome
Nagaokakyo-shi, Kyoto-fu
617-8555 JAPAN

Type of Entity: Corporation-Japan

Additional name(s) & address(es) attached? No

3. Nature of Conveyance:

Assignment

Execution Date: July 10, 2000

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

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

A. Application No.(s)

09/587,505

B. Patent No.(s)

Additional numbers attached?

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

OSTROLENK, FABER, GERB & SOFFEN, LLP
1180 Avenue of the Americas
New York, New York 10036-8403

6. Total number of documents involved: 1

7. Total fee (37 CFR 3.41): \$40.00

Enclosed as part of Check No. 001040

In the event the actual fee is greater than the payment submitted or is
inadvertently not enclosed or if any additional fee due is not paid, the
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8. 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.

James A. Finder

Name of Person Signing

Signature

September 5, 2000

Date

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

WHEREAS, I (We), Masayuki ATOKAWA and Kikuo TSUNODA as assignor(s), have invented certain improvements in DUPLEXER AND COMMUNICATION APPARATUS for which an application for United States Letters Patent has been executed by me (us) of even date herewith; and

WHEREAS, Murata Manufacturing Co., Ltd., Dept. A170, 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, I (We), as assignor(s), 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 myself (ourselves) and my (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: July 10, 2000

Masayuki Atokawa
Masayuki ATOKAWA

Date: July 3, 2000

Kikuo Tsunoda
Kikuo TSUNODA

LEGALIZATION RECOMMENDED