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To the Honorable Commissioner of Patents and Trademarks: Please

102310410

Name of conveying party(ies): **Hidetoshi IWATANI and Sadao YAMASHITA**

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

Additional name(s) of conveying party(ies) attached?  yes  no

(2a.)

Name: Murata Manufacturing Co., Ltd.

Address: 26-10 Tenjin 2-chome, Nagaokakyo-shi, Kyoto-fu 617-8555, Japan

MRID 12/9/02

3. Name of Conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other \_\_\_\_\_

(2b.)

Name \_\_\_\_\_

Address: \_\_\_\_\_

Additional name(s) & address(es) attached?  yes  no

Execution Date: **December 4 and 6, 2002**

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: December 9, 2002

A. Patent Application No.(s) 10314270

B. Patent No.(s)

Additional numbers attached  yes  no

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

Name: Joseph R. Keating, Esq.

Internal Address: KEATING & BENNETT LLP

Street Address: 10400 Eaton Place, Suite 312

City: Fairfax State: VA ZIP 22030

6. Total number of applications and patents involved: one

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

- Enclosed
- Authorized to be charged to credit card with Credit Card Payment Form (PTO-2038)
- Authorized to be charged to deposit account

8. Deposit account number: 50-1353

12/10/2002 HLE333 00000062 10314270  
02 FC:8021 40.00 DP

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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.

Joseph R. Keating, Reg. No. 37,368

Name of Person Signing

Signature

December 9, 2002

Date

Total number of pages comprising cover sheet, attachments and document: 3

Mail documents to be recorded with required cover sheet information to:

Assistant Commissioner for Patents  
Box Assignment  
Washington, D.C. 20231

Jc971 U.S. PTO  
10/31/02



12/09/02

Attorney Docket No.: 36856.986

**ASSIGNMENT (WORLDWIDE)**

WHEREAS, We, **Hidetoshi IWATANI and Sadao YAMASHITA** hereinafter referred to as ASSIGNOR), have invented and own a certain invention entitled **LINE COUPLING STRUCTURE, MIXER, AND RECEIVING/TRANSMITTING APPARATUS** for which application for Letters Patent of the United States has been

executed on even date herewith;  
\_\_\_\_\_ filed on \_\_\_\_\_ as Serial No. \_\_\_\_\_

WHEREAS, **Murata Manufacturing Co., Ltd., 26-10, Tenjin 2-chome, Nagaokakyo-shi, Kyoto-fu 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: \_\_\_\_\_

\_\_\_\_\_  
**Hidetoshi IWATANI**

Dated: December 4, 2002

Sadao Yamashita  
\_\_\_\_\_  
**Sadao YAMASHITA**

Attorney Docket No.: 36856.986

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WHEREAS, We, **Hidetoshi IWATANI and Sadao YAMASHITA** hereinafter referred to as ASSIGNOR), have invented and own a certain invention entitled **LINE COUPLING STRUCTURE, MIXER, AND RECEIVING/TRANSMITTING APPARATUS** for which application for Letters Patent of the United States has been

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Dated: December 6, 2002

Hidetoshi Iwatani  
**Hidetoshi IWATANI**

Dated: \_\_\_\_\_

\_\_\_\_\_  
**Sadao YAMASHITA**