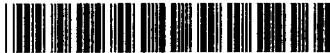


12-29-2000

FORM PTO-1595

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U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

101567005

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

1. Name of conveying party(ies): MIO  
12.13.00  
**Naoyuki Yamamoto and Shinichiro Miyashita**

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

2. Name and address of receiving party(ies):  
Name: Matsushita Electric Industrial Co., Ltd.

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

Street Address: 1006, Kadoma, Kadoma-shi

City: Osaka State: Japan Zip:     

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

3. Nature of Conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other \_\_\_\_\_

Execution Date: November 28, 2000; November 28, 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:  
November 28, 2000; November 28, 2000

A. Patent Application No.(s):

B. Patent No.(s):

15/2000 TSDAMU: 00000067 09735713  
00 30:381 40.00 DP

Additional number(s) attached?  Yes  No

09/735753

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

Name: Michael W. Garvey

Street Address: 526 Superior Avenue, East  
Suite 1200

City: Cleveland State: OH Zip: 44114-1484

6. Total number of applications and patents involved: 1

7. Total Fee (37 C.F.R. §3.41) .....\$40.00

Enclosed

Authorized to be charged to Deposit Account

8. Deposit Account No.

16-0820, Order No. 33185

(Attach duplicate copy of this page if paying by deposit account)

**DO NOT USE THIS SPACE**

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.*

Michael W. Garvey  
Name of Person Signing

[Signature]  
Signature

December 13, 2000  
Date

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

## ASSIGNMENT

WHEREAS, new and useful improvements have been made by the undersigned in

**COMMUNICATIONS APPARATUS, FREQUENCY CONTROL METHOD FOR  
COMMUNICATIONS APPARATUS, AND RECORDING MEDIUM**

and are the subject of a patent application prepared for filing in the United States Patent and Trademark Office, and executed by the undersigned on the date(s) indicated below, which application is further identified as Pearne & Gordon LLP Docket No. 33185.

WHEREAS, MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.,  
a corporation of Japan, and having a place of business at  
1006, Kadoma, Kadoma-shi, Osaka, Japan  
hereinafter referred to as "assignee", is desirous of acquiring all right, title, and interest throughout the world in, to, and under said improvements and inventions and patent rights therefor.

NOW, THEREFORE, be it known that, for valuable consideration, the receipt and sufficiency of which are hereby acknowledged, all right, title, and interest, in the United States and throughout the world, in, to and under said improvements and inventions and all patents, patent applications, patent rights, and inventor's certificates thereof, therefor, and therein, including without limitation said application for patent in the United States, all divisions and continuations thereof, all patents which may be granted thereon, all reissues and extensions thereof, all right to sue for past infringement thereunder, all patents which may be granted for said improvements and inventions by states or nations other than the United States, or by other authority, entity, or organization, and all applications therefor, have been and are hereby sold, assigned, transferred, and delivered unto assignee, its successors and assigns; and it is covenanted and agreed by the undersigned, and for executors, administrators, and legal representatives of the undersigned, that at assignee's request any and all applications, affidavits, assignments, and other instruments will be made, executed, and delivered as may be necessary, or desirable to secure for or vest in assignee, its successors or assigns, any improvement, inventions, right, title, interest, application, patent, patent right or other right or property covered by this assignment, and the United States Commissioner of Patents and Trademarks is hereby requested and authorized to issue any and all United States patents granted on any of said applications to assignee as owner of the entire right, title, and interest in, to, and under the same, and appropriately empowered officials of foreign countries are hereby authorized to issue any letters patent granted on any of said applications to assignee as owner of the entire right, title and interest in, to, and under the same.

The undersigned hereby grants the firm of Pearne & Gordon LLP the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, this assignment has been executed below by the undersigned:

(1) Inventor Name (solo or joint): Naoyuki YAMAMOTO

Signature: *Naoyuki Yamamoto*

Today's Date: November 28, 2000

Date I Signed Declaration: November 28, 2000

Witness:

Witness:

(2) Inventor Name (joint): Shinichiro MIYASHITA

Signature: *Shinichiro Miyashita*

Today's Date: November 28, 2000

Date I Signed Declaration: November 28, 2000

Witness:

Witness:

(3) Inventor Name (joint): \_\_\_\_\_

Signature: \_\_\_\_\_

Today's Date: \_\_\_\_\_

Date I Signed Declaration: \_\_\_\_\_

Witness:

Witness: