

12-22-2000

HEET

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

101558307

To the Honorable Commissioner of F

and the attached original documents or copy thereof.

1. Name of conveying party(ies):

Kazushi Takanashi and Takeshi AkiyamaAdditional 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 14, 2000; November 14, 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 14, 2000; November 14, 2000

A. Patent Application No.(s):

09/730188

B. Patent No.(s):

08/2000 DTESSEM1 00000070 09/30188

FC:581

60.00 US

Additional number(s) attached? ☐ Yes ☒ No

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. 33152

(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.***Michael W. Garvey**
Name of Person Signing
Signature**December 5, 2000**
DateTotal number of pages including cover sheet, attachments, and document: **3**

ASSIGNMENT

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

WAVEFORM EQUALIZER, MOBILE STATION WIRELESS APPARATUS USING THE SAME, BASE STATION WIRELESS APPARATUS USING THE SAME, AND MOBILE COMMUNICATION SYSTEM USING THE SAME

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. 33152.

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): Kazushi TAKANASHI

Signature: Kazushi Takanashi

Today's Date: November 14, 2000

Date I Signed Declaration: November 14, 2000

Witness:

Witness:

(2) Inventor Name (joint): Takeshi AKIYAMA

Signature: Takeshi Akiyama

Today's Date: November 14, 2000

Date I Signed Declaration: November 14, 2000

Witness:

Witness:

(3) Inventor Name (joint): _____

Signature: _____

Today's Date: _____

Date I Signed Declaration: _____

Witness:

Witness: