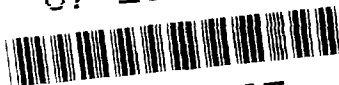


07-29-2002

SHEET

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

102171237

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

1. Name of conveying party(ies):

Takefumi Ura

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

3. Nature of Conveyance:

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

Execution Date: June 12, 2002

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

Name: Matsushita Electric Industrial Co., Ltd.Street Address: 1006, Oaza Kadoma, Kadoma-shiCity: Osaka 571-8501 Country: JapanAdditional name(s) of receiving party(ies) 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 application is: 6/12/2002

A. Patent Application No.(s):

10/194673Additional number(s) attached? ☐ Yes ☒ No

B. Patent No.(s):

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

Name: Michael W. GarveyStreet Address: 526 Superior Avenue EastSuite 1200City: Cleveland State: OH Zip: 44114-14846. Total number of applications and patents involved: One7. Total Fee (37 C.F.R. §3.41) \$40.00

- ☒ Enclosed
☒ Authorized to be charged to Deposit Account
for any uncovered fees

8. Deposit Account No.

16-0820, Order No. 34757.

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

07/18/2002 VYANG1 00000015 10194673

04 FC:581

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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]
Signature

July 12, 2002
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

HOWLING DETECTING AND SUPPRESSING APPARATUS, METHOD AND COMPUTER PROGRAM PRODUCT

for which an application for Letters Patent of the United States was filed on _____
which application is identified by Serial No. _____ (Pearne & Gordon LLP Docket
No. 34757).

WHEREAS, Matsushita Electric Industrial Co., Ltd., a corporation of Japan,
having a place of business at 1006, Oaza Kadoma, Kadoma-shi, OSAKA 571-8501 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 inventors' 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 grant 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: Takefumi URA

Signature: Takefumi Ura

Today's Date: June 12, 2002

Date I Signed Declaration: June 12, 2002

Witness: Kazuhiko Nabeshima

(2) Inventor Name: _____

Signature: _____

Today's Date: _____

Date I Signed Declaration: _____

Witness: _____

(3) Inventor Name: _____

Signature: _____

Today's Date: _____

Date I Signed Declaration: _____

Witness: _____