

08-10-2000



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U.S. PATENT AND TRADEMARK OFFICE

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Case Docket No. 000927

U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

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PATENTS ONLY

To the Assistant Commissioner for Patents.  
Please record the attached original documents or copy thereof.

1. Name of conveying parties:

Yutaka NIO, Katsumi TERAII, Naoji OKUMURA and Kazuto TANAKA

Additional name(s) of conveying parties attached? Yes No XX

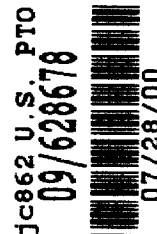
2. Name and address of receiving party:

Name: MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.

Street Address:

1006, Oaza Kadoma

Kadoma-shi, Osaka 571-8501 Japan



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

3. Nature of conveyance: **Assignment**

Execution Date: July 24, 2000

4. Title: NOISE DETECTOR, NOISE DETECTION METHOD, SIGNAL PROCESSOR  
AND SIGNAL PROCESSING METHOD

5. Application number(s) or patent number(s): 09/628678

A. Patent Application No.(s) B. Patent No.(s)

If this document is being filed together with a new application, the execution date of the application is: July 24, 2000

Additional numbers attached? Yes No XX

08/07/2000 JWSHINE 0000017 012345 09628678

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PATENT  
REEL: 010985 FRAME: 0965

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

Name: Armstrong, Westerman, Hattori,  
McLeland & Naughton  
Suite 1000  
1725 K Street, N.W.  
Washington, D.C. 20006

7. Total number of applications and patents involved: 1

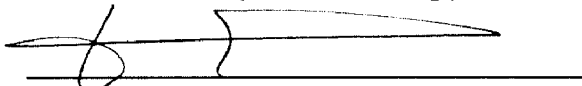
8. Total fee (37 CFR 3.41). . . . . \$ **40.00**

XX Check enclosed

9. Deposit Account No.: 01-2340

10. 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.



Date July 28, 2000

Ken-Ichi Hattori  
Reg. No.: 32,861

Total number of pages including cover sheet: 4

KH/llf

**Armstrong, Westerman, Hattori, McLeland & Naughton**

Docket No. \_\_\_\_\_

**U.S. ASSIGNMENT**

IN CONSIDERATION of the sum of One Dollar ( \$ 1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter ASSIGNOR) by

MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. of 1006, Oaza Kadoma, Kadoma-shi,  
Osaka 571-8501 Japan

(hereinafter ASSIGNEE), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled

NOISE DETECTOR, NOISE DETECTION METHOD, SIGNAL PROCESSOR AND  
SIGNAL PROCESSING METHOD

for which application for Letters Patent of the United States was executed on even date herewith unless otherwise indicated below:

\*filed on \_\_\_\_\_, Serial No. \_\_\_\_\_.

(Armstrong, Westerman, Hattori, McLeland & Naughton is hereby authorized to insert the series code, serial number and/or filing date hereon, when known)

and all Letters Patent of the United States to be obtained therefor on said application or any continuation, divisional, substitute, reissue or reexamination thereof for the full term or terms for which the same may be granted.

The ASSIGNOR agrees to execute all papers necessary in connection with the application and any continuation, divisional, reissue or reexamination applications thereof and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.

The ASSIGNOR agrees to execute all papers necessary in connection with any interference, litigation, or other legal proceeding which may be declared concerning this application or any continuation, divisional, reissue or reexamination thereof or Letters Patent or reissue patent issued thereon and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interference, litigation, or other legal proceeding.

IN WITNESS WHEREOF, the undersigned inventor(s) has(have) affixed his/her/their signature(s).

Yutaka Nio  
(SIGNATURE)

Yutaka Nio  
(TYPE NAME)

July / 24 / 2000  
(DATE)

Katsumi Terai  
(SIGNATURE)

Katsumi Terai  
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Naoji Okumura  
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Kazuto Tanaka  
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July / 24 / 2000  
(DATE)