

4-20-99



101020463

To the Honorable Assistant Secretary and Cor document(s) or copy(ies) thereof.

ase record the attached original

1. Name of conveying party(ies):

Tomokazu ISHIKAWA, Mineo TSUSHIMA and Takeshi NORIMATSU

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

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

Name: Matsushita Electric Industrial Co., Ltd.

Street Address: 1006, Oaza Kadoma, Kadoma-shi, Osaka 571-8501 JAPAN

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

3. Nature of conveyance:

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

Execution Date: April 8, 1999

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:

A. Patent Application No.(s)

09/266,631

B. Patent No.(s)

Additional numbers attached? No

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

Name: WENDEROTH, LIND & PONACK, L.L.P.
Attn: Jeffrey Nolton

Street Address: 2033 K Street, N.W., Suite 800

City: Washington, State: DC ZIP: 20006

6. Total number of applications and patents involved: 1

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

- Enclosed (Check No. _____)
- Authorized to be charged to deposit account

8. Deposit account number: 23-0975

(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.

Jeffrey Nolton, Reg. No. 25,408
Name of Person Signing

April 20, 1999
Date

Total number of pages including cover sheet: 3

OMB No. 0651-0011 (exp. 4/94)

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Mail documents to be recorded with required cover sheet information:

Commissioner and Assistant Secretary of Patents and Trademarks
Box Assignments
Washington, D.C. 20231

04/22/1999 DNGUYEN 00000184 09266631

FC:581

40.00 DP

ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned

Tomokazu ISHIKAWA

Insert Name(s)
of Inventor(s)

Mineo TSUSHIMA

Takeshi NORIMATSU

the undersigned hereby sell(s) and assign(s) to

Insert Name(s)
of Assignee(s)

Matsushita Electric Industrial Co., Ltd.

Address

of 1006, Oaza Kadoma, Kadoma-shi, Osaka 571-8501 JAPAN

(hereinafter designated as the Assignee) the entire right, title and interest for the United States of America as defined in 35 USC 100, in the invention known as

Title of
Invention

AUDIO SIGNAL CODING APPARATUS, AUDIO SIGNAL DECODING APPARATUS, AND AUDIO

SIGNAL CODING AND DECODING APPARATUS

Date of Signing
of Application

for which an application for patent in the United States of America has been executed by the undersigned

on April 8, 1999

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division or reissue thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the firm of WENDEROTH, LIND & PONACK, L.L.P., Suite 800, 2033 "K" Street, N.W, Washington, D.C. 20006, 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 Office for recordation of this document.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date April 8, 1999, Name of Inventor Tomokazu Ishikawa
 Tomokazu ISHIKAWA

Date April 8, 1999, Name of Inventor Mineo Tsushima
 Mineo TSUSHIMA

Date April 8, 1999, Name of Inventor Takeshi Norimatsu
 Takeshi NORIMATSU

Date _____, Name of Inventor _____

Date _____, Name of Inventor _____

Date _____, Name of Inventor _____

(This assignment should preferably be acknowledged before a United States Consul. If not, then the execution by the Inventor(s) should be witnessed by at least two witnesses who sign here.)

Witness Akihiro Ishikawa

Witness Eichiro Okuda

ACKNOWLEDGEMENT

_____ }
 _____ } ss

This _____ day of _____, 19____, before me
 personally came the above-named _____

to me personally known as the individual(s) who executed the foregoing assignment, who did acknowledge to me that he (they) executed the same of his (their) own free will for the purposes therein set forth.

Official Signature

SEAL

Official Title

The above application may be more particularly identified as follows:

U.S. Application Serial No. _____ Filing Date March 11, 1999

Applicant Reference Number P-20031-01 Atty Docket No. 1489/P-20031-01

Title of Invention AUDIO SIGNAL CODING APPARATUS, AUDIO SIGNAL DECODING APPARATUS, AND AUDIO SIGNAL CODING AND DECODING APPARATUS