

U.S. PATENT AND TRADEMARK OFFICE

Case Docket No. 990408

06-25-1999

RE



101074676

DEPARTMENT OF COMMERCE
Patent and Trademark Office
MET

6-22-99

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

1. Name of conveying parties:

Akiomi KUNISA, Nobuo ITOH and Seiichiro TAKAHASHI

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

2. Name and address of receiving party:

Name: SANYO ELECTRIC CO., LTD

Street Address: 5-5, Keihanhondori 2-chome
Moriguchi-shi, Osaka, Japan

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

3. Nature of conveyance: Assignment

Execution Date: June 18, 1999

4. Title: DIGITAL MODULATION METHOD, DIGITAL MODULATION CIRCUIT,
DIGITAL DEMODULATION CIRCUIT AND DIGITAL DEMODULATION
METHOD

5. Application number(s) or patent number(s):

A. Patent Application No.(s)
09/284,278

B. Patent No.(s)

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

Additional numbers attached? Yes No

06/23/1999 MTHA11 00000230 09284278

01 FC:581

40.00 OP

40E

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

Name: ARMSTRONG, WESTERMAN, HATTORI,
MCLELAND & NAUGHTON
1725 K Street, N.W., Suite 1000
Washington, D.C. 20006

7. Total number of applications and patents involved: 1

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

Enclosed

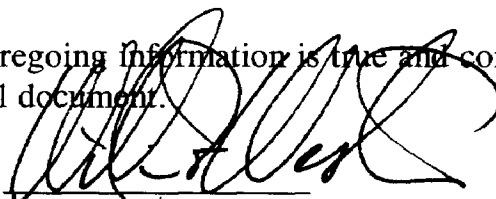
Authorized to be charged to Deposit Account

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.

William F. Westeman
Name of Person Signing


Signature

June 22, 1999
Date

29,988
Registration No.

Total number of pages including cover sheet, attachments and document: 4

Rev. 2/97
WFW/llf

ATTORNEY DOCKET NO. 990408

ASSIGNMENT

Application No. _____

Filed _____

**Insert Name(s)
of Inventor(s)** ➡

WHEREAS, Akiomi KUNISA, Nobuo ITOH and Seiichiro TAKAHASHI

**Insert Title
of Invention** ➡

(hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in _____

Digital Modulation Method, Digital Modulation Circuit, Digital

Demodulation Circuit and Digital Demodulation Method

**Insert Date
of Signing of
Application** ➡

for which an application for Letters Patent of the United States of America has been executed by the undersigned under 35 U.S.C. 371 resulting from the International Application No. PCT/JP97/03632; filed October 9, 1997,

on June 18, 1999; and

**Insert Name
of Assignee** ➡

WHEREAS, SANYO ELECTRIC CO., LTD.

**Insert Address
of Assignee** ➡

of 5-5, Keihanondori 2-chome, Moriquchi-shi, Osaka, Japan

**CHECK BOX
IF APPROPRIATE** ➡

its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the United States of America and

in any and all foreign countries.

NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00) to the undersigned in hand paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned has (have) sold, assigned and transferred, and by these presents does sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign countries;

and to any and all divisions, reissues, continuations and extensions thereof for the full term or terms for which the same may be granted.

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 or Letters Patent(s) 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.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the 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 of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) the request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the 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 law firm of Armstrong, Westerman, Hattori, McLeland & Naughton 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 U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

Date	<u>June 18, 1999</u>	Name of Inventor	<u>Akiomi Kunisa</u> (signature) Akiomi KUNISA
Date	<u>June 18, 1999</u>	Name of Inventor	<u>Nobuo Itoh</u> (signature) Nobuo ITOH
Date	<u>June 18, 1999</u>	Name of Inventor	<u>Seiichiro Takahashi</u> (signature) Seiichiro TAKAHASHI
Date	_____	Name of Inventor	_____ (signature)
Date	_____	Name of Inventor	_____ (signature)
Date	_____	Name of Inventor	_____ (signature)
Date	_____	Name of Inventor	_____ (signature)
Date	_____	Name of Inventor	_____ (signature)
Date	_____	Name of Inventor	_____ (signature)