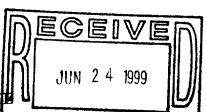


101159898 LADEMARK OFFICE



Case Docket No. <u>981319</u>

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

6-24-99

CORRECTED RECORDATION FORM COVER SHEET PATENTS ONLY

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

1. Name of conveying parties:

Akiomi KUNISA and Nobuo ITOH

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

2. Name and address of receiving party:

Name: SANYO ELCETRIC CO., LTD.

Street Address:

5-5, Keihan-Hondori 2-chome Moriguchi-shi, Osaka 570-8677, Japan

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

3. Nature of conveyance: XX Other

TO CORRECT THE EXECUTION DATE AND THE NAME OF THE FIRST INVENTOR ON REEL <u>9723</u>, FRAME <u>0905</u>.

Execution Dates: January 7, 1999 and January 5, 1999

4. Title: DIGITAL MODULATION AND DEMODULATION

06/25/1999 BNBUYEN 00000168 09231817

01 FC:581

40.00 OP

40E NOSPEC F.LL

PATENT REEL: 010220 FRAME: 0664

5.	Application number(s) or patent number(s):
Α.	Patent Application No.(s) B. Patent No.(s) 09/231,817
	If this document is being filed together with a new application, the execution date of the plication is:
	Additional numbers attached? Yes No XX
6. be	Name and address of party to whom correspondence concerning document should 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)
	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.
	Ronald F. Naughton Reg. No.: 24,616 Date June 24, 1999
RF	Total number of pages including cover sheet: 7 FN/llf

PATENT REEL: 010220 FRAME: 0665 U.S.

FFICE

Case Docket No. <u>981319</u>

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

RECORDATION FORM COVER SHEET PATENTS ONLY

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

1. Name of conveying party(ies):

09,231,817

Akioma KUNISA and Nobuo ITOH

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

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

Name: SANYO ELECTRIC CO., LTD.

Street Address:

5-5, Keihan-Hondori 2-Chome, Moriguchi-shi, Osaka 570-8677, Japan

<u>NO</u>

Additional name(s) & address(es) attached?

3. Nature of conveyance: Assignment

Execution Date: January 5, 1999

- 4. Title: DIGITAL MODULATION AND DEMODULATION
- 5. 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: January 5, 1999

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached?

728/1999 ASELLMAN \$0000093 09231817 REEL: 010220 FRAME: 0666

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)						
9. Deposit Account No.: <u>01-2340</u>						
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 January 15, 1999 Ronald F. Naughton Reg. No.: 24,616						
Total number of pages including cover sheet: 3						

RFN/yap

- 10 m

Armstrong, Westerm:	in, Hattori,	, McLeland	&	Naughton
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· •	Doglas No
1	Docket No.
U.S. ASSIGNMEN	Τ
IN CONSIDERATION of the sum of Or	na Dollar (\$1.00) and of other good and valuable
	ne Dollar (\$1.00), and of other good and valuable or(s) (hereinafter ASSIGNOR) by
consideration paid to the undersigned invento	or(s) (hereinafter ASSIGNOR) by
SANYO ELECTRIC CO., LTD.	or(s) (hereinafter ASSIGNOR) by 5-5, Keihan-Hondori 2-Chome
consideration paid to the undersigned invento	or(s) (hereinafter ASSIGNOR) by 5-5, Keihan-Hondori 2-Chome
SANYO ELECTRIC CO., LTD. Moriquchi-shi, Osaka 570-8	or(s) (hereinafter ASSIGNOR) by 5-5, Keihan-Hondori 2-Chome
SANYO ELECTRIC CO., LTD. Moriquchi-shi, Osaka 570-8 (hereinafter ASSIGNEE), the receipt of which	or(s) (hereinafter ASSIGNOR) by 5-5, Keihan-Hondori 2-Chome, 8677, JAPAN

(Title of Invention)

(Insert ASSIGNEE's

Name(s) Address(es))

(*If the assignment is being filed after the filing of the application, this section must be completed)

Digital Modulation and Demodulation

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).

(Signatures)

RECORDED: 06/24/1999

abioni Runia (SIGNATURE)	Akiomi KUNISA (TYPE NAME)	Jan. 7, 1999 (DATE)
Notro Stop (SIGNATURE)	Nobuo ITOH (TYPE NAME)	Jan. 5, 1999 (DATE)
(SIGNATURE)	(TYPE NAME)	(DATE)

REEL: 010220 FRAME: 0668