

To the Honorable Assistant Secretary and Com or copy(ies) thereof. 101335808 e record the attached original document(s)

<p>1. Name of conveying party(ies): Asanobu ITO Tatsushi BANNAI Minoru NISHIOKA</p>	<p>2. Name and address of receiving party(ies): Name: <u>Matsushita Electric Industrial Co., Ltd.</u> Street Address: <u>1008, Oaza Kadoma, Kadoma-shi, Osaka 571-8501 Japan</u> City: Country:</p>
<p>3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merge <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other Execution Date: <u>January 13, 2000</u></p>	<p>Additional name(s) of conveying party(ies) attached? <u>NO</u> Additional name(s) & address(es) attached? <u>NO</u></p>

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) 09/469,789, filed December 22, 1999
B. Patent No.(s) issued
Additional numbers attached? NO

<p>5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>WENDEROTH, LIND & PONACK, L.L.P.</u> <u>Attn: Jeffrey Nolton, Esq.</u> Street Address: <u>2033 K Street, N.W., Suite 800</u> City: <u>Washington</u>, State: <u>DC</u> ZIP: <u>20006</u></p>	<p>6. Total number of applications and patents involved: <u>One</u> 7. Total fee (37 CFR 3.41). <u>\$40.00</u> <input checked="" type="checkbox"/> Enclosed (Check No. <u>37475</u>) Authorized to be charged to deposit account 8. Deposit account number: <u>23-0975</u> (Attach duplicate copy of this page if paying by deposit account)</p>
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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.
Nils E. Pedersen, Reg. No. 33,145 April 3, 2000
Name of Person Signing Signature Date
Total number of pages including cover sheet: 3

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PATENT
REEL: 010723 FRAME: 0351

ASSIGNMENT

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

Asanobu ITO, Minoru NISHIOKA and Tatsushi BANNAI

Insert Name(s)
of Inventor(s)

Insert Name(s)
of Assignee(s)

Address

Title of
Invention

Date of Signing
of Application

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

Matsushita Electric Industrial Co., Ltd.

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 as defined in 35 USC 100, in the invention known as

TRANSMISSION APPARATUS, RECEPTION APPARATUS, TRANSMISSION METHOD AND
RECEPTION METHOD, EACH FOR EFFICIENTLY TRANSMITTING ERROR INFORMATION

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

January 13, 2000

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.

PATENT
REEL: 010723 FRAME: 0352

The undersigned hereby grant(s) the firm of WENDEROTH, LIND & PONACK, L.L.P., 2033 K Street, N.W., Suite 800, Washington, DC 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 January 13, 2000, Name of Inventor Asanobu Ito
 Asanobu ITO

Date Jan 15, 2000, Name of Inventor Minoru Nishioka
 Minoru NISHIOKA

Date Jan 13, 2000, Name of Inventor Tatsushi Bannai
 Tatsushi BANNAI

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 Seiki Fujimoto

Witness Tajotika Matsuda

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.

SEAL

 Official Signature

 Official Title

The above application may be more particularly identified as follows:

U.S. Application Serial No. _____ Filing Date December 22, 1999

Applicant Reference Number 530717 Atty Docket No. _____

Title of Invention TRANSMISSION APPARATUS, RECEPTION APPARATUS, TRANSMISSION METHOD AND RECEPTION METHOD, EACH FOR EFFICIENTLY TRANSMITTING ERROR INFORMATION

RECORDED: 04/03/2000

PATENT
REEL: 010723 FRAME: 0353