

To the Honorable Director of Patents and



Documents or copy thereof.

1. Name of Conveying parties:
NOGUCHI, Yoshihiro
TAKAGI, Genzo
OHNO, Motoyasu

1030-03

102592353

Conveying party(ies)

Name: Matsushita Electric Industrial Co., Ltd.

Internal Address: _____

Street Address: 1006, Oaza Kadoma, Kadoma-shi

Osaka 571-8501, JAPAN

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

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

3. Nature of conveyance:

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

Execution Date: October 24, 2003

17510 U.S. PTO
10/696029



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

10696029

If this document is being filed together with a new application, the execution date of the application is: October 24, 2003

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached: Yes No

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

Name: Bruce H. Bernstein

Internal Address: P24133

Street Address: GREENBLUM & BERNSTEIN, P.L.C.

1950 Roland Clarke Place

City: Reston State: VA ZIP: 20191

6. Total number of applications and patents involved: 1

7. Total Fee (37 CFR 3.41).....\$ 40.00

Enclosed

Authorized to be charged to deposit account

8. Deposit account number:

19-0089

(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.

Bruce H. Bernstein, Reg. No. 29,027
Name of Person Signing

[Signature]
Signature Reg. No. 33,329

10/30/03
Date

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

Mail documents to be recorded with required cover sheet information to:
Director of the United States Patent and Trademark office, Mail Stop Assignments
PO Box 1450 Alexandria, Virginia 22313-1450

11/03/2003 EAREGAY1 00000063 10696029

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40.00 DP

ASSIGNMENT

WHEREAS, **Yoshihiro NOGUCHI**, a citizen of Japan, whose post office address is 2-9-2-502, Sakado, Takatsu-ku, Kawasaki-shi, Kanagawa-ken 213-0012 Japan, **Genzo TAKAGI**, a citizen of Japan, whose post office address is 1-31-20, Imaizumi, Ageo-shi, Saitama-ken 362-0047 Japan, and **Motoyasu OHNO**, a citizen of Japan, whose post office address is 80-11, Kitamachi, Ohyaguchi, Itabashi-ku, Tokyo 173-0031 Japan, hereinafter referred to as the ASSIGNORS, have invented a certain improvement relating to

Data Communication Apparatus and Data Communication Method

for which they have jointly executed, on the same date as this assignment, an application for Letters Patent of the United States to be filed in the United States Patent and Trademark Office.

If this Assignment is filed after the filing date of the above-identified application, the undersigned hereby authorize and request any one of the attorneys of record in this application including Neil F. Greenblum, Reg. No. 28,394, Bruce H. Bernstein, Reg. No. 29,027, Arnold Turk, Reg. No. 33,094, James L. Rowland, Reg. No. 32,674, Stephen M. Roylance, Reg. No. 31,296, Leslie J. Paperner, Reg. No. 33,329, William Pieprz, Reg. No. 33,630, Robert W. Mueller, Reg. No. 35,043 and William E. Lyddane, Reg. No. 41,568, of the firm Greenblum & Bernstein, P.L.C., whose address is 1950 Roland Clarke Place, Reston, Virginia 20191, to insert here in parenthesis (Application No. _____, filed _____) the filing date and application number of said application when known.

AND WHEREAS, **MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.**, a corporation organized and existing under the laws of Japan, whose post-office address is 1006, Oaza Kadoma, Kadoma-shi, Osaka 571-8501 Japan, hereinafter known as the ASSIGNEE, is desirous of acquiring the entire right, title and interest for the United States in and to said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues, and prolongations thereof.

NOW, THIS WITNESSETH that for and in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt whereof is hereby acknowledged, said ASSIGNORS hereby assign, sell and transfer to said ASSIGNEE, its assigns and legal representatives, the entire and exclusive right, title and interest in and to said invention and application, for the United States including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted therefor, said ASSIGNEE and its assigns and legal representatives to have, hold, exercise and enjoy the said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges, and advantages in any ways arising from or pertaining thereto, for and during the term or terms of any and all such Letters Patent when granted, including any and all renewals, reissues, and prolongations thereof, for the use

and benefit of said ASSIGNEE and its assigns and legal representatives in as ample and beneficial a manner to all intents and purposes as the said ASSIGNORS might or could have held and enjoyed the same, if this assignment had not been made.

AND said ASSIGNORS hereby agree to execute all papers necessary to file applications in the United States for said invention and to assign the same to said ASSIGNEE, or any assignee acquiring title to said invention, and to execute any other papers that may be needed in connection with filing said application and securing Letters Patent thereon.

AND said ASSIGNORS authorize and request the Commissioner of Patents to issue Letters Patent on said application, and on any and all divisions and continuations thereof, to said ASSIGNEE, its assigns and legal representatives, in accordance herewith.

IN TESTIMONY WHEREOF, this assignment is executed on the date(s) indicated below.

First Witness:

(Name)

(Date)

Yoshihiro Noguchi 10/24/2003
Yoshihiro NOGUCHI Date

Second Witness:

(Name)

(Date)

First Witness:

(Name)

(Date)

Genzo Takagi 10/24/2003
Genzo TAKAGI Date

Second Witness:

(Name)

(Date)

First Witness:

(Name)

(Date)

Motoyasu Ohno *10.24.2003*

Motoyasu OHNO Date

Second Witness:

(Name)

(Date)