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FORM PTO-
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Trademarks: Please record the attached original documents or copy thereof.

102821604

4-13-04

1. Name of Conveying party(ies):

SATO, Junichi
YAMAGUCHI, Takao
ITOH, Tomoaki

2. Name and address of receiving party(ies)

Name: MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.

Internal Address: _____

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

3. Nature of conveyance:

X Assignment ___ Merger
___ Security Agreement ___ Change of Name
___ Other _____

Street Address: 1006, Oaza Kadoma, Kadoma-shi,

Osaka 571-8501 Japan

City: _____ State: _____ ZIP: _____

Execution Date: March 17, 2004

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

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: March 17, 2004

A. Patent Application No.(s)

B. Patent No.(s) 10/491441

Additional numbers attached: ___ Yes X No

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

Name: Bruce H. Bernstein

Internal Address: P25177

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

X 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

4/13/04
Date

Total number of pages including cover sheet, attachments and document: 3

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

PATENT
REEL: 015706 FRAME: 0224

ASSIGNMENT

WHEREAS, Junichi SATO, a citizen of Japan, whose post office address is 460-310, Nogaya-machi, Machida-shi, Tokyo 195-0053 Japan and Takao YAMAGUCHI, a citizen of Japan, whose post office address is 2-18-29-203, Higashimotomachi, Kokubunji-shi, Tokyo 185-0022 Japan and Tomoaki ITOH, a citizen of Japan, whose post office address is 3-7-11-302, Minamiikuta, Tama-ku, Kawasaki-shi, Kanagawa 214-0036 Japan hereinafter referred to as the ASSIGNORS, have invented a certain improvement relating to

TERMINAL APPARATUS

for which they have executed, on the same date as this assignment, an application for Letters Patent for the United States to be filed in the United States Patent and Trademark Office, which is a National Stage Application of International Application No. PCT/JP02/10729, filed on October 16, 2002.

AND WHEREAS, MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. 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 by said ASSIGNORS, on the respective dates indicated below.

Junichi SATO
Junichi SATO

March 17, 2004
Date

Takao YAMAGUCHI
Takao YAMAGUCHI

March 17, 2004
Date

Tomoaki ITOH
Tomoaki ITOH

March 17, 2004
Date