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To the



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PTO FILE REC'D 28 MAY 1998

1. Name of Conveying party  
Daisuke YAMADA  
Osamu KATO

2. Name and address of receiving party(ies)

Name: MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.

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

Internal Address: \_\_\_\_\_

3. Nature of conveyance:

MAR 5-28-98

Assignment

\_\_\_ Merger

\_\_\_ Security Agreement

\_\_\_ Change of Name

\_\_\_ Other \_\_\_\_\_

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

Osaka 571 JAPAN

Execution Date: April 7, 1998

City: \_\_\_\_\_ State: \_\_\_\_\_ ZIP: \_\_\_\_\_

Additional name(s) and address(es) attached? \_\_\_ Yes  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: April 7, 1998

A. Patent Application No.(s)

B. Patent No.(s)

09-077289

Additional numbers attached: \_\_\_ Yes  No

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

6. Total number of applications and patents involved: 1

Name: Bruce H. Bernstein

Internal Address: P16724

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

Enclosed

\_\_\_ Authorized to be charged to deposit account

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

06/01/1998 WCLAYBRD 00000118 09077289

1941 Roland Clarke Place

04 FC:501

40.00 US

City: Reston State: VA ZIP: 20191

8. Deposit account number:

19-0089

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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

*Lester J. Opperman*  
Signature

Reg No. 33,329

5/28/98  
Date

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

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231

## ASSIGNMENT

WHEREAS, Daisuke Yamada, a citizen of Japan, whose post office address is 1302-1-101, Higashinaganuma, Inagi-shi, Tokyo 206 Japan and Osamu Kato, a citizen of Japan, whose post office address is 2-14-10-205, Hiyoshi, Kohoku-ku, Yokohama-shi, Kanagawa 223 Japan hereinafter referred to as the ASSIGNORS, have invented a certain improvement relating to

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for which they have, on the respective dates indicated below, jointly executed an application for Letters Patent of 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/JP97/03762, filed October 17, 1997.

AND WHENAS, 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 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 ASSIGNOR 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 die 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.

Daisuke Yamada  
Daisuke Yamada

7 April 1998  
Date

Osamu Kato  
Osamu Kato

7 April 1998  
Date