

08-20-2001



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PATENTS ONLY

FORM PTO-1596
1-31-92

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

Docket No.: 60188-062

To the Honorable Commissioner for Patents and Trademarks: Please record the attached original documents or copy thereto:

1. Name of Conveying Parties: **7-3-01**
Takao YOSHIDA, Minoru OKAMOTO, Masayuki
YAMASAKI, and Kazuhiro OKABAYASHI
Additional names of conveying parties attached? Yes

2. Name and address of receiving party:
Name: MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.
Address: 1006, Oaza Kadoma
Kadoma-Shi
Osaka 571-8501, JAPAN

3. Nature of Conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other
Execution Date: June 12, 2001

Additional name & address attached? Yes


4. Application number or patent number:
If the document is being filed together with a new application, the execution date of the application is:
A. Patent Application No.
09/833,787; Filed April 13, 2001

B. Patent No.
Additional numbers attached? Yes

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: MCDERMOTT, WILL & EMERY
Internal Address:
Street Address: 600 13th Street, N.W.
City: Washington State: DC Zip: 20005

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:
500417

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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.
Michael E. Fogarty, No. 36.139  August 3, 2001

Name and Registration No. of Person Signing Signature Date
Total number of pages comprising cover sheet: 1

CMB No. 0851-0011 (exp. 4/94)

08/17/2001 BBYRNE 00000057 500417 09833787
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PATENT
REEL: 012071 FRAME: 0707

A S S I G N M E N T

WHEREAS, Takao YOSHIDA, Minoru OKAMOTO, Masayuki YAMASAKI,
Kazuhiro OKABAYASHI

(hereinafter designated as the undersigned) has (have) invented certain new and useful improvements
in CRC OPERATION UNIT AND CRC OPERATION METHOD

for which the undersigned has (have):

- (a) filed an application for Letters Patent of the United States of America on
April 13, 2001 having Serial No. 09/833,787; or
- (b) executed an application for Letters Patent of the United States of America on the
date(s) indicated below; and

WHEREAS, Matsushita Electric Industrial Co., Ltd. of
1006, Oaza Kadoma, Kadoma-shi, Osaka 571-8501, Japan

its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is
desirous of acquiring the entire right, title and interest in and to said invention and in and to any
Letters Patent(s) that may be granted therefor in the United States of America;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to the undersigned
in hand paid, the receipt of which is hereby acknowledged, and other good and valuable
consideration, the undersigned has (have) sold, assigned and transferred, and by these presents do
sell, assign and transfer unto the Assignee the full and exclusive right to the said invention in the
United States of America and its territories and for all foreign countries, dependencies and
possessions and the entire right, title and interest in and to the application and any and all Letters
Patent(s) which may be granted therefor in the United States of America and its territories,
dependencies and possessions, and in and to any and all divisions, reissues, continuations and
extensions thereof for the full term or terms for which the same may be granted.

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 any continuation, division or reissue thereof
or Letters Patent(s) 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.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims under or provisions of the International Convention for the 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(s) to the Assignee and to vest all rights therein hereby conveyed to the Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue any and all Letters Patents of the United States of America resulting from said application or any division or divisions or continuing or reissue applications thereof to the Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the 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.

This Assignment has been executed by the undersigned on the date(s) indicated.

Date: June 12, 2001, *Takao Yoshida*
Takao YOSHIDA

Date: June 12, 2001, *Minoru Okamoto*
Minoru OKAMOTO

Date: June 12, 2001, *Masayuki Yamasaki*
Masayuki YAMASAKI

Date: June 12, 2001, *Kazuhiro Okabayashi*
Kazuhiro OKABAYASHI

Date: _____, _____

Date: _____, _____

Date: _____, _____

Date: _____, _____