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03-10-2004

FORM PTO-1595 (Rev. 10/02)

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

Docket No.: 67471-029



102688830

original documents or copy thereto:

To the Honorable Commissioner for Patents a

1. Name of Conveying Party(ies):  
Shirou YOSHIOKA, Hirofumi KANEKO  
Additional name(s) of conveying party(ies) attached?  Yes  No

2. Name and address of receiving party(ies):  
Name: MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.  
Address: 1006, Oaza Kadoma, Kadoma-shi, Osaka 571-8501 Japan  
Additional name(s) & address(es) attached?  Yes  No

3. Nature of Conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other  
Execution Date: January 27, January 27, 2004

4. Application number(s) or patent number(s):  
If the document is being filed together with a new application, the execution date of the application is:  
A. Patent Application No(s).  
10/701,073, filed November 5, 2003  
Additional numbers attached?  Yes  No

B. Patent No(s).

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: D. C. Zip: 20005-3096

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, 36,139 March 5, 2004

Name and Registration No. of Person Signing Signature Date  
Total number of pages including cover sheet: 3

OMB No. 0651-0027 (exp. 6/30/2005)

(03/09/2004 DBYRNE 00000205 500417 10701073  
01 FC:8021 40.00 DA)

**ASSIGNMENT**

WHEREAS, Shirou YOSHIOKA, and HIROFUMI KANEKO, hereinafter called the "Assignor," has invented a new and useful invention entitled APPARATUS AND METHOD FOR MEMORY MANAGEMENT, for which he has:

- (a) filed an application for United States Letters Patent on \_\_\_\_\_ as (Serial No. \_\_\_\_\_); or
- (b) executed an application for United States Letters Patent on \_\_\_\_\_; or
- (c) filed a provisional application on \_\_\_\_\_ as (Serial No. \_\_\_\_\_); and

WHEREAS, Matsushita Electric Industrial Co, Ltd., a corporation organized and existing under the laws of JAPAN, having a place of business at: 1006, Oazakadoma, Kadoma-shi, Osaka 571-8501 Japan, hereinafter called the "Assignee," is desirous of acquiring the entire right, title and interest in and to said invention, the application above identified, and in, to and under any Letters Patent which may be obtained to said invention, as hereinafter more fully set forth;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for and in consideration of the sum of One Dollar (\$1.00), and other valuable and legally sufficient considerations, the receipt of which by said Assignor from the said Assignee is hereby acknowledged, the said Assignor has sold, assigned and transferred, and by these presents do sell, assign and transfer unto the said Assignee, the entire, right, title and interest for the United States in and to the invention and application hereinabove identified, and any Letters Patent of the United States that may issue for said invention, together with the entire right, title and interest in and to said invention and applications for Letters Patent and Letters Patent therefor, in all countries foreign to the United States, including the full right to claim for any such application all benefits and priority rights under any applicable convention; to have and to hold for the sole and exclusive use and benefit of the said Assignee, its successors and assigns, to the full end of the term or terms for which any and all of said Letters Patent for said inventions may issue.

And the said Assignor does hereby covenant and agree, for himself and his legal representatives, that he will assist the said Assignee in the prosecution of the application herein identified; in the making and prosecution of any other applications for Letters Patent that the said Assignee may elect to make covering the invention herein identified, as hereinabove set forth; in vesting in the said Assignee like exclusive title in and to all such other applications and Letters Patent; and in the prosecution of any interference which may arise involving said invention, or any application or Letters Patent herein contemplated; and that they will execute and deliver to the said Assignee any and all additional papers which may be requested by the said Assignee to fully carry out the terms of this Assignment.

The undersigned hereby grant(s) the attorneys of McDermott, Will & Emery 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 and Trademark Office for recordation of this document.

And the Commissioner of Patents and Trademarks is hereby authorized and requested to issue Letters Patent to the said Assignee in accordance with the terms of this Assignment.

IN TESTIMONY WHEREOF, the said Assignor has hereunto set his hands and affixed his seal.

Date: 27 / JAN. / 2004  
(Seal)

Shirou Yoshioka  
Shirou YOSHIOKA

Date: 27 / JAN. / 2004  
(Seal)

Hirofumi Kaneko  
Hirofumi KANEKO