

09-27-2001



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Form PTO-1595 (Rev. 03/01) OMB No. 0651-0027 (exp. 5/31/2002)

U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office Docket No. 0819-0647 EJR/sas September 20, 2001

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): Kiyoshi UCHIYAMA, Yasuhiro SHIMADA, Koji ARITA, Tatsuo OTSUKI

2. Name and address of receiving party(ies) Name: Matsushita Electric Industrial Co., Ltd. Internal Address: 1006, Oaza Kadoma, Kadoma-shi, Osaka 572, 8501, JAPAN

3. Nature of conveyance: [X] Assignment [ ] Merger [ ] Security Agreement [ ] Change of Name [ ] Other

Street Address: City: State: Zip: Country: Postal Code:

Execution Date: September 7, 2001

Additional name(s) & 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: September 7, 2001 A. Patent Application No.(s) B. Patent No.(s)

5. Name and address of party to whom correspondence concerning document should be mailed: Attorney Name: Eric J. Robinson Firm Name: Nixon Peabody LLP Internal Address: Suite 800 Street Address: 8180 Greensboro Drive, City: McLean State: VA Zip: 22102

6. Total number of applications and patents involved: One (1) 7. Total fee (37 CFR 3.41) .....\$ 40.00 [X] Enclosed [ ] Authorized to be charged to deposit account 8. Deposit account number: 19-2380

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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. Eric J. Robinson #38,285 Signature Date 9-20-01

CERTIFICATE OF MAILING I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Commissioner for Patents, Washington, DC 20231. on Total number of pages including cover sheet, attachments, and documents: 03

Vertical stamp: J973 U.S. PTO 09/19/01 09/20/01

Vertical stamp: 40.00 DP 09/24/2001 RHEBRIGHT 00000043 09956556 02 FC:581

**ASSIGNMENT**

WHEREAS, **Kiyoshi UCHIYAMA, Yasuhiro SHIMADA, Koji ARITA, Tatsuo OTSUKI**  
 (hereinafter designated as the undersigned) has (have) invented certain new and useful improvements  
 in **SEMICONDUCTOR MEMORY DEVICE**

\_\_\_\_\_ for which the undersigned has (have):

- (a) filed an application for Letters Patent of the United States of America on  
 \_\_\_\_\_ having Serial No. \_\_\_\_\_; 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.

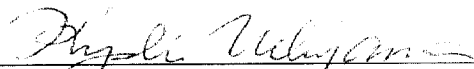
The undersigned agree(s) to execute all papers necessary in connection with any interference  
 which may be declared concerning this application or any continuation, division or reissue thereof or  
 Letters Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way  
 possible in obtaining and producing evidence and proceeding with such interference.

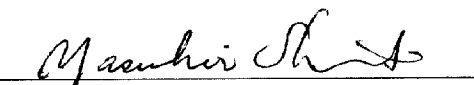
The undersigned agree(s) to execute all papers and documents and to perform any act which  
 may be necessary in connection with claims under or provisions of the International Convention for the  
 Protection of Industrial Property or similar agreements.

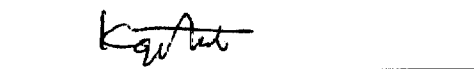
The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent(s) to the Assignee and to vest all rights therein hereby conveyed to the Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

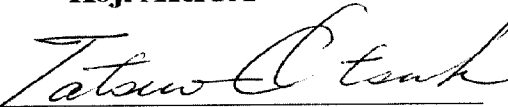
The undersigned hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue any and all Letters Patents of the United States of America resulting from said application or any division or divisions or continuing or reissue applications thereof to the Assignee, as Assignee of 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: September 7, 2001,   
**Kiyoshi UCHIYAMA**

Date: September 7, 2001,   
**Kasuhiro SHIMADA**

Date: September 7, 2001,   
**Koji ARITA**

Date: September 7, 2001,   
**Tatsuo OTSUKI**

Date: \_\_\_\_\_, \_\_\_\_\_

Date: \_\_\_\_\_, \_\_\_\_\_

Date: \_\_\_\_\_, \_\_\_\_\_

Date: \_\_\_\_\_, \_\_\_\_\_