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11-14-2000



CRM PTO-1596  
1-31-92

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U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

Docket No.: 43889-980

101514855

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

1. Name of Conveying Parties:  
Takuya YASUI, Keiichi KUROKAWA, Masahiko  
TOYONAGA, Atsushi TAKAHASHI, and Yoji KAJITANI  
Additional name(s) of conveying party(ies) attached?  Yes

2. Name and address of receiving parties:  
Name: 1. 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: September 13, 2000

Additional name(s) & address(es) attached?  Yes

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: September 13, 2000  
A. Patent Application No(s).  
B. Patent No(s).

09/663933  
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 13<sup>th</sup> 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, 36.139  
September 18, 2000

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

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

11/13/2000 MTHAI1 00000250 500417 09663933  
01 FC:581 40.00 CH

PATENT  
REEL: 011224 FRAME: 0520

2. Atsushi TAKAHASHI  
1-17-3-803, Watarida, Kawasaki-ku  
Kawasaki-shi, Kanagawa 210-0837  
Japan
  
3. Yoji KAJITANI  
22-28, Sakuradai, Aoba-ku  
Yokohama-shi, Kanagawa 227-0061  
Japan

## ASSIGNMENT

WHEREAS, Takuya YASUI, Keiichi KUROKAWA, Masahiko TOYONAGA, Atsushi TAKAHASHI, Yoji KAJITANI (hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in CLOCK CIRCUIT AND METHOD OF DESIGNING THE SAME 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; Atsushi TAKAHASHI of 1-17-3-803, Watarida, Kawasaki-ku, Kawasaki-shi, Kanagawa 210-0837, Japan; and Yoji KAJITANI of 22-28, Sakuradai, Aoba-ku, Yokohama-shi, Kanagawa 227-0061, Japan;

their heirs, successors, legal representatives and assigns (hereinafter designated as the Assignees) are 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 Assignees 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 Assignees may deem necessary or expedient.

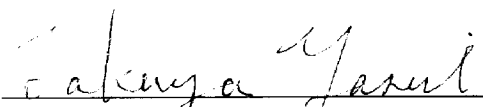
The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or any continuation, division or reissue thereof or Letters Patent(s) or reissue patent issued thereon and to cooperate with the Assignees in every way possible 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 Assignees and to vest all rights therein hereby conveyed to the Assignees as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

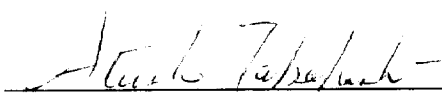
The undersigned hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue any and all Letters Patents of the United States of America resulting from said application or any division or divisions or continuing or reissue applications thereof to the Assignees, as Assignees 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.

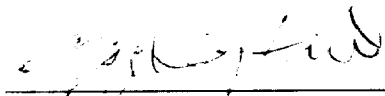
This Assignment has been executed by the undersigned on the date(s) indicated.

Date: Sept. 13, 2000,   
**Takuya YASUI**

Date: Sept. 13, 2000,   
**Keiichi KUROKAWA**

Date: Sept. 13, 2000,   
**Masahiko TOYONAGA**

Date: Sept. 13, 2000,   
**Atsushi TAKAHASHI**

Date: Sept. 13, 2000,   
**Yoji KAJITANI**

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

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

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