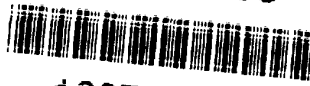


07-14-1998



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(Rev. 6-93)  
OMB No. 0651-0011 (exp. 4/94)  
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*MEO 7-6-98*

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Satoru NAKAGAWA

2. Name and address of receiving party(ies):

Matsushita Electronics Corporation  
1-1, Saiwai-cho, Takatsuki-shi  
Osaka 569-1143  
Japan

*JCS23 U.S. PTO  
09/110792  
07/06/98*

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

Additional name(s) & address(es) attached?  Yes  No

3. Nature of conveyance:

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Execution Date: June 30, 1998

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: June 30, 1998

A. Patent Application No.(s)

B. Patent No.(s)

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

Name: Douglas P. Mueller  
Address: Merchant, Gould, Smith, Edell,  
Welter & Schmidt, P.A.  
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90 South Seventh Street  
Minneapolis, MN 55402-4131

6. Total number of applications and patents involved: 1

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Signature

July 6, 1998

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PATENT  
REEL: 9299 FRAME: 0629

**INSTRUCTIONS**

**INTERNATIONAL ASSIGNMENT TO CORPORATION**

WHEREAS,

Inventor(s) Name,  
Address, Citizenship

1. Satoru NAKAGAWA residing at 36-10, Nanpeidai 5-chome, Takatsuki-shi, Osaka 569-1042, JAPAN  
and a citizen of Japan;
2. \_\_\_\_\_ residing at \_\_\_\_\_  
and a citizen of \_\_\_\_\_;
3. \_\_\_\_\_ residing at \_\_\_\_\_  
and a citizen of \_\_\_\_\_;
4. \_\_\_\_\_ residing at \_\_\_\_\_  
and a citizen of \_\_\_\_\_;
5. \_\_\_\_\_ residing at \_\_\_\_\_  
and a citizen of \_\_\_\_\_;
6. \_\_\_\_\_ residing at \_\_\_\_\_  
and a citizen of \_\_\_\_\_;
7. \_\_\_\_\_ residing at \_\_\_\_\_  
and a citizen of \_\_\_\_\_;
8. \_\_\_\_\_ residing at \_\_\_\_\_  
and a citizen of \_\_\_\_\_;
9. \_\_\_\_\_ residing at \_\_\_\_\_  
and a citizen of \_\_\_\_\_;

Date Patent Declaration  
Signed and Title  
Serial No. and filing  
date (if known)

(herein called "THE UNDERSIGNED") have made an invention and have executed an application for Letters Patent of the United States on \_\_\_\_\_ for this invention, which application is entitled

**IMPREGNATED CATHODE AND METHOD FOR MANUFACTURING  
THE SAME**

\_\_\_\_\_ and which has been given Serial Number \_\_\_\_\_  
and the filing date of \_\_\_\_\_;

Name of Corporation

AND WHEREAS Matsushita Electronics Corporation (herein called "ASSIGNEE"), a corporation organized under the laws of Japan and having an office and place of business at 1-1, Saiwai-cho, Takatsuki-shi, Osaka 569-1143, Japan

State or Country of  
Incorporation and Address

wishes to acquire the entire right, title and interest in and to said invention and patent application and any Letters Patent to be obtained therefor;

NOW, THEREFORE, for and in consideration of the sum of One Dollar and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, THE UNDERSIGNED hereby sell, assign and transfer to the ASSIGNEE, its successors and assigns, the entire right, title and interest for all countries in and to the invention disclosed in the aforesaid application, and in and to the said application, all divisions, continuations, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents; and THE UNDERSIGNED hereby authorize and request the Commissioner of Patents to issue any and all United States Letters Patent for the aforesaid invention to the ASSIGNEE of the entire right, title and interest in and to the same, for the use of the ASSIGNEE, its successors and assigns.

THE UNDERSIGNED hereby agree that THE UNDERSIGNED, their executors and legal representatives will make, execute and deliver (without charge but at the expense of the ASSIGNEE) any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said ASSIGNEE, its successors and representatives all facts known to THE UNDERSIGNED relating to said invention and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable to vest the ASSIGNEE, its successors or assigns the entire right, title and interest in and to the said invention, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

PATENT

REEL: 9299 FRAME: 0630

THE UNDERSIGNED represent and agree with said ASSIGNEE its successors and assigns, that no assignment grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by THE UNDERSIGNED, and that full right to convey the same as herein expressed is possessed by THE UNDERSIGNED.

IN TESTIMONY WHEREOF, THE UNDERSIGNED have hereunto set their hand on the dates indicated below.

Each inventor must sign & date

Note: No legalization or other witness required

|                                     |                              |
|-------------------------------------|------------------------------|
| <u>Satoru Nakagawa</u><br>Signature | <u>June 30, 1998</u><br>Date |
| _____<br>Signature                  | _____<br>Date                |
| _____<br>Signature                  | _____<br>Date                |
| _____<br>Signature                  | _____<br>Date                |
| _____<br>Signature                  | _____<br>Date                |
| _____<br>Signature                  | _____<br>Date                |
| _____<br>Signature                  | _____<br>Date                |
| _____<br>Signature                  | _____<br>Date                |