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1. Name of conveying party(ies):

Keisuke KOGA (July 28, 2003)  
Toru KAWASE (July 28, 2003)  
Kenichi HONDA (July 30, 2003)  
Tetsuya NORIKANE (July 30, 2003)

8-8-03

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

Matsushita Electric Industrial Co., Ltd.  
1006, Oaza Kadoma  
Kadoma-shi, Osaka 571-8501  
JAPAN

03913 U.S. PTO  
10/637404  
08/08/03

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

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3. Nature of conveyance:

- Assignment
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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: August 8, 2003

A. Patent Application No.(s)  
filed here within

10437404

B. Patent No.(s)

Additional numbers attached?  Yes  No

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

Name: Douglas P. Mueller  
Address: Merchant & Gould P.C.  
P.O. Box 2903  
Minneapolis, MN 55402-0903



6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$40.00  
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Douglas P. Mueller  
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August 8, 2003  
Date

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PATENT  
REEL: 014387 FRAME: 0182

**INSTRUCTIONS**

**ASSIGNMENT OF U.S. RIGHTS TO CORPORATION**

WHEREAS,

Inventor(s) Name,  
Address, Citizenship

1. Keisuke KOGA residing at 4-24-2, Seikadai, Seika-cho, Soraku-gun, Kyoto 619-0239, JAPAN and a citizen of JAPAN;
2. Toru KAWASE residing at 1-10-132, Ikuno, Katano-shi, Osaka 576-0054, JAPAN and a citizen of JAPAN;
3. Kenichi HONDA residing at 3210-201, Iioka, Saijyo-shi, Ehime 793-0010, JAPAN and a citizen of JAPAN;
4. Tetsuya NORIKANE residing at 1232-1, Shimoko, Oaza Asakura, Asakuramura, Ochi-gun, Ehime 799-1603, JAPAN and a citizen of JAPAN;

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

**FIELD-EMISSION ELECTRON SOURCE ELEMENT AND IMAGE  
DISPLAY APPARATUS**

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

Name of Corporation

AND WHEREAS Matsushita Electric Industrial Co., Ltd. (herein called "ASSIGNEE"), a corporation organized under the laws of JAPAN, and having an office and place of business at 1006, Oaza Kadoma, Kadoma-shi, Osaka 571-8501, 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 the United States 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.

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

Keisuke Koga  
Signature

July 28, 2003  
Date

Note: No legalization or other witness required

Tom Kawase  
Signature

July 28, 2003  
Date

Kenichi Honda  
Signature

July 30, 2003  
Date

Tetsuya Norikane  
Signature

July 30, 2003  
Date