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HEET

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

PT09 Rec'd PCT/PTO 9 APR 2003

Tab settings

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

1. Name of conveying party(ies):  
**Toru Kawase and Keisuke Koga**

4.9.03

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

Name: **Matshushita Electric Industrial Co., Ltd.**

Address: **1006, Oazakadoma, Kadoma-shi,**

Additional names(s) of conveying party(ies)  Yes  No

3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other

City: **Osaka-fu** State/Prov.: \_\_\_\_\_

Country: **Japan** ZIP: **571-8501**

Execution Date: **December 10, 2002**

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

4. Application number(s) or patent numbers(s): **10398700**

If this document is being filed together with a new application, the execution date of the application is: **December 10, 2002**

Patent Application No. \_\_\_\_\_ Filing date \_\_\_\_\_

B. Patent No.(s) \_\_\_\_\_

Additional numbers  Yes  No

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

6. Total number of applications and patents involved: **1**

Name: **Joseph W. Price**

Registration No. **25,124**

Address: **Snell & Wilmer, LLP**

**1920 Main Street, Suite 1200**

7. Total fee (37 CFR 3.41):.....\$ **40.00**

Enclosed - Any excess or insufficiency should be credited or debited to deposit account

Authorized to be charged to deposit account

City: **Irvine** State/Prov.: **CA**

Country: **USA** ZIP: **92614**

8. Deposit account number:

**19-2814**

(Attach duplicate copy of this page if paying by deposit account)

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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.

**Joseph W. Price**

**April 9, 2003**

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231

PATENT  
REEL: 014304 FRAME: 0048

# ASSIGNMENT

**WHEREAS**, we, Toru KAWASE and Keisuke KOGA

citizens of Japan, respectively, have invented certain new and useful improvements in a

DRIVING METHOD AND DRIVING APPARATUS FOR A FIELD EMISSION  
DEVICE

for which we have executed application for Letters Patent of the United States, on even date herewith;

**WHEREAS**, MATSUSHITA ELECTRIC INDUSTRIAL. CO., LTD a corporation of Japan, having a principal place of business at 1006, Oazakadoma, Kadoma-shi, Osaka-fu, 571-8501, Japan is desirous of obtaining the entire right, title and interest in, to and under the said improvements and the said application,

**NOW, THEREFORE**, in consideration of the sum of One Hundred Yen (100¥) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, Toru KAWASE and Keisuke KOGA

have sold, assigned, transferred and set over, unto said MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD., its successors, legal representatives and assigns, the entire right, title and interest in, to and under said improvements, and said application and all divisions, renewals and continuations thereof, and all Letters Patents of the United States, which may be granted thereon and all reissues and extensions thereof, and all priority rights under the International Convention for the Protection of Industrial Property for every country of the Union, and all applications for Letters Patents which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United

States, and any official of any country or countries foreign to the United States, whose duty it is to issue patents, on applications as aforesaid, to issue all Letters Patents for said improvements to said MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD., its successors, legal representatives and assigns, in accordance with the terms of this instrument.

**AND WE HEREBY** covenant that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

**AND WE HEREBY** further covenant and agree that we will communicate to said MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD., its successors, legal representatives and assigns, any facts known to us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid said MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD., its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

**IN TESTIMONY WHEREOF**, I have hereunto set my hand this 10 day of December 2002,

Toru Kawase  
Toru KAWASE

**IN TESTIMONY WHEREOF**, I have hereunto set my hand this 10 day of December 2002,

Keisuke Koga  
Keisuke KOGA