

10-31-2002



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102266460

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

1. Name of conveying party(ies):  
**Benjamin E. Russ**

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

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

Name: **Sony Corporation**

Address: **7-35 Kitashinagawa, 6-Chome**

City: **Shinagawa-Ku** State/Prov.: **Tokyo**

Country: **Japan** ZIP:

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

3. Nature of conveyance:

Assignment  Merger

Security Agreement  Change of Name

Other

Execution Date: **11/12/99**

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

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

Patent Application No.	Filing date

Additional numbers  Yes  No

B. Patent No.(s)

**6,384,520**

Yes  No

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NOV 13 2002

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

Name: **Karin L. Williams**

Registration No. **36,721**

Address: **Mayer Fortkort & Williams, PC**

**251 North Avenue West, 2nd Floor**

City: **Westfield** State/Prov.: **NJ**

Country: **USA** ZIP: **07090**

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

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

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

Authorized to be charged to deposit account

8. Deposit account number:

(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.

**Karin L. Williams** *Karin L. Williams* **10/24/02**

Name of Person Signing Signature Date

Total number of pages including cover sheet, attachments, and

# PATENTS ONLY

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

1. Name of conveying party(ies):

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

Name: Sony Electronics Inc.

Address: 1 Sony Drive

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

3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other

City: Park Ridge State/Prov.: NJ

Country: USA ZIP: 07656

Execution Date: \_\_\_\_\_

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

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

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. 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:

Name: \_\_\_\_\_

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

Registration No. \_\_\_\_\_

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

Address: \_\_\_\_\_

Authorized to be charged to deposit account

8. Deposit account number: \_\_\_\_\_

City: \_\_\_\_\_ State/Prov.: \_\_\_\_\_

Country: \_\_\_\_\_ ZIP: \_\_\_\_\_

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*(see page 1 cover sheet)*

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and

11/23/99

RECORDED

To the Honorable Commissioner of Patents and Trademarks, for the original documents or copy thereof.

1. Name of conveying party(ies):  
(a) Benjamin E. Russ  
Additional name(s) of conveying party(ies) attached?  
 Yes  No

2. Name and address of receiving party(ies):  
Name: Sony Corporation  
Street Address: 7-35 Kitashinagawa, 6-Chome  
City: Shinagawa-Ku State: Tokyo Zip: 112-8553  
Country: Japan

hcs30 U.S. PTO  
09/449317  
11/24/99

3. Nature of Conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other \_\_\_\_\_  
Execution Date: November 12, 1999

Name and address of receiving party(ies):  
Name: \_\_\_\_\_  
Street Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Country: \_\_\_\_\_

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: \_\_\_\_\_  
A. Patent Application No.(s) - Unknown  
Title: Cathode Structure For Planar Emitter Field Emission Displays  
B. Patent No.(s)  
NA  
Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:  
Name: Roberta P. Saxon  
Internal Address: SKJERVEN, MORRILL, MacPHERSON, FRANKLIN & FRIEL LLP  
Street Address: 25 METRO DRIVE, SUITE 700  
City SAN JOSE State CA ZIP 95110

6. Total number of applications and patents involved: 1  
7. Total fee (37 CFR 3.41): ..... \$40.00 ✓  
 Authorized to be charged to Deposit Account 19-2386 ✓  
 Charge Deposit Account 19-2386 for any additional fees required for this conveyance and credit deposit account 19-2386 any amounts overpaid

DO NOT USE THIS SPACE

8. 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.*  
Roberta P. Saxon 43,087  
Name of Person Signing Signature Date 11/23/99  
Total number of pages comprising cover sheet: 3

12/07/1999 DNGUYEN 00000040 192386 09449317  
01 FC:581 40.00 CH

EXPRESS MAIL LABEL NO:  
EL 030 412 305 US

**ASSIGNMENT**

**WHEREAS, I**, as a below named inventor, residing at the address stated next to my name, am a sole inventor of certain new and useful improvements in **Cathode Structure For Planar Emitter Field Emission Displays** for which application for Letters Patent of the United States of America was executed by me on the date indicated next to my name and address;

**AND WHEREAS**, Sony Corporation, a Japanese corporation with offices at 7-35 Kitashinagawa 6-Chome, Shinagawa-Ku, Tokyo, Japan and Sony Electronics Inc. a Delaware corporation with offices at 1 Sony Drive, Park Ridge, New Jersey 07656 (hereinafter referenced as ASSIGNEES) is desirous of acquiring all interest in, to and under said invention, said application disclosing the invention and in, to and under any Letters Patent or similar legal protection which may be granted therefor in the United States and in any and all foreign countries;

**NOW THEREFORE**, in consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I, as a sole or joint inventor as indicated below, by these presents do hereby assign, sell and transfer unto the said ASSIGNEES, its successors, assigns, and legal representatives, the entire right, title and interest in the said invention, said application, including any divisions and continuations thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said invention, and in and to any and all priority rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and to any other benefits accruing or to accrue to me with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, and I hereby authorize and request the Commissioner of Patents to issue the said United States Letters Patent to said ASSIGNEES, as the assignees of the whole right, title and interest thereto:

And I further agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEES or its designee, as ASSIGNEES or its successors, assigns and legal representatives may from time-to-time present to me and without further remuneration, in order to perfect title in said invention, modifications, and improvements in said invention, applications and Letters Patent of the United States and countries foreign thereto;

And I further agree to properly execute and deliver and without further remuneration, such necessary or desirable and lawful papers for application for foreign patents, for filing subdivisions of said application for patent, and or, for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid invention, as the ASSIGNEES thereof shall hereafter require and prepare at its own expense;

And I further agree that ASSIGNEES will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to me and will testify as to the same in any interference or litigation related thereto;

And I hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale;

And I hereby authorize and request my attorney(s) of record in this application to insert the execution date, serial number and filing date of this application in the spaces that follow: Serial Number: \_\_\_\_\_, Filing Date: \_\_\_\_\_.

This assignment executed on the dates indicated below.

Benjamin E. Russ 11/12/99  
Name of first inventor Execution date of U.S. Patent Application

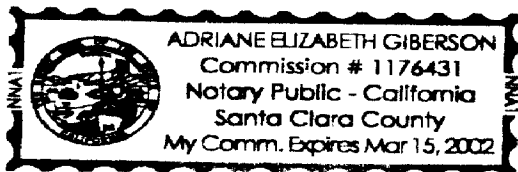
San Diego, California  
Residence of first or sole inventor

Benjamin E. Russ 11/12/99  
Signature of first or sole inventor Date of this assignment

State of California )  
County of San Diego ) ss.

On this 12<sup>th</sup> day of November in the year of 1999, the undersigned notary public, personally appeared the above-named assignor, ~~known to me~~ (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged execution of this instrument.

WITNESS my hand and official seal.



Adriane Elizabeth Giberson  
SIGNATURE OF NOTARY  
Adriane Elizabeth Giberson