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PATENTS ONLY

U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

Docket 73551

To the Commissioner for Patents : Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Inventor(s)

Benjamin Edward Russ

Jack Barger

James Wang

Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement ☐ Change of Name☐ Other _____

Execution Date: 11/21/02 and 11/25/02

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

Sony Corporation

7-35 Kitashinagawa

6-Chome

Shinagawa-Ku

Tokyo, Japan

Sony Electronics Inc.

1 Sony Drive

Park Ridge, NJ 07656

4. Application number(s) or patent number(s): 10/305,559

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

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☐ No

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

FITCH, EVEN, TABIN & FLANNERY

Suite 1600-120 S. La Salle Street

Chicago, IL 60603

6. Total number of applications and patents involved: 1

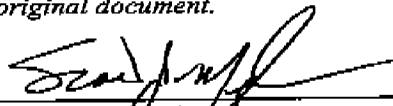
7. Total fee (37 CFR 3.41): \$ 40.00

☐ Enclosed☒ Authorized to be charged to deposit account should the fee not be enclosed.

8. Deposit account number: 06-1135

DO NOT USE THIS SPACE

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.
Scott J. Menghini

Registration No. 42,880

December 17, 2002

Date

10. Total number of pages including cover sheet, attachments and document: 3

Docket No. 73551
(Sony Ref. No. 50S5082)

ASSIGNMENT

WHEREAS, I, as a below named inventor, am a sole inventor (if only one name is listed below) or a joint inventor (if plural names are listed below) of certain new and useful improvements in **FIELD EMISSION CATHODE STRUCTURE USING PERFORATED GATE** 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 is being executed on the date indicated below.

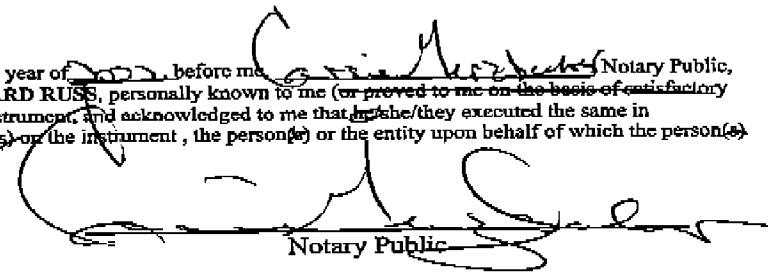

BENJAMIN EDWARD RUSS

Dated: 11/21/02

STATE OF California ss.
COUNTY OF San Diego

On this 21 day of November in the year of 2002, before me, Carrie Merzbacher Notary Public, personally appeared the above-named assignor, BENJAMIN EDWARD RUSS, personally 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 to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that he/she/they (or the person(s) or the entity upon behalf of which the person(s) acted, executed the instrument.




Notary Public

Docket No. 73551
(Sony Ref. No. 50S5082)

[Signature]
JACK BARGER

Dated: 11/25/02

STATE OF _____
COUNTY OF _____

On this _____ day of _____, in the year of _____, before me, _____, Notary Public, personally appeared the above-named assignor, JACK BARGER, personally 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 to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that his/her/their signature(s) on the instrument, the person(s) or the entity upon behalf of which the person(s) acted, executed the instrument.

Notary Public

James Lian Wang
JAMES WANG

Dated: 11/21/2002

STATE OF California
COUNTY OF San Diego

On this 21st day of November, in the year of 2002, before me, Carrie Merzbacher, Notary Public, personally appeared the above-named assignor, JAMES WANG, personally 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 to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that his/her/their signature(s) on the instrument, the person(s) or the entity upon behalf of which the person(s) acted, executed the instrument.

[Signature]
Notary Public

