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PATENT AND TRADEMARK OFFICE

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TO THE HONORABLE DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE. PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF.

1. Name of conveying party(ies):

(a) Benjamin E. Russ

(b) Ichiro Saito

(c) Jack Barger

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, Shinagawa-Ku

City: Tokyo

Country: Japan

3. Nature of Conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ OtherExecution Date: Sept. 18, 2001; Sept. 19, 2001; Sept. 18, 2001

Name and address of receiving party(ies):

Name: Sony Electronics Inc.

Street Address: 1 Sony Drive

City: Park Ridge

State: New Jersey

Zip: 07656

Country: USA

Additional name(s) & address(es) attached? ☐ Yes ☒ No4. Application number(s) or patent number(s): **09/373,028**

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

A. Patent Application No.(s) - **09/373,028**

Title: FIELD EMISSION CATHODES HAVING AN EMITTING
LAYER COMPRISED OF ELECTRON EMITTING
PARTICLES AND INSULATING PARTICLES

B. Patent No.(s)

Additional numbers attached?

☐

Yes

☒

No

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

Name: David W. Heid, Esq.Internal Address: SKJERVEN MORRILL MacPHERSON LLPStreet Address: 25 METRO DRIVE, SUITE 700City SAN JOSE State CA Zip 951106. Total number of applications and patents involved: one (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

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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.

David W. Heid 25,875

Name of Person Signing

Signature

Date

9/20/01

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PATENT
REEL: 012198 FRAME: 0595

ASSIGNMENT

For good and valuable consideration, receipt of which is hereby acknowledged, we

<u>Benjamin E. Russ</u>	of	<u>San Diego, California</u>
<u>Ichiro Saito</u>	of	<u>Yokohama, Kanagawa Japan</u>
<u>Jack Barger</u>	of	<u>El Cajon, California</u>

hereby sell, assign and transfer to Sony Corporation, a Japanese corporation with offices at 7-35 Kitashinagawa 6-Chome, Shinagawa-Ku, Tokyo, Japan and Sony Electronics Inc., a Delaware corporation, having a place of business at 1 Sony Drive, Park Ridge, New Jersey 07656, its successors and assigns, the entire right, title and interest throughout the world in our invention in:

**FIELD EMISSION CATHODES HAVING AN EMITTING LAYER COMPRISED OF
ELECTRON EMITTING PARTICLES AND INSULATING PARTICLES**

for which a United States patent application was filed on August 11, 1999, and which application now has Serial No. 09/373,028, and all patent applications and patents of every country for said invention, including divisions, reissues, continuations and extensions thereof, and all rights of priority resulting from the filing of said applications; we authorize the above-named assignee to apply for patents of foreign countries for said invention, and to claim all rights of priority without further authorization from us; we agree to execute all papers useful in connection with said United States and foreign applications, and generally to do everything possible to aid said assignee, their successors, assigns and nominees, at their request and expense, in obtaining and enforcing patents for said invention in all countries; and we request that the United States Patent and Trademark Office issue all patents granted for said invention to the above-named assignee, its successors and assigns.

Executed this 16th day of September, 2001.

By: Benjamin E. Russ
Benjamin E. Russ

State of California
County of San Diego) ss.

On September 16, 2001 before me, Carrie Merzbacher personally appeared Benjamin E. Russ personally known to me or ~~proved to me on the basis of~~ satisfactory evidence to be the person(s) whose name(s) is (are) 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 by 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.

WITNESS my hand and official seal.



Carrie Merzbacher
SIGNATURE OF NOTARY

Executed this _____ day of _____, 2001.

By: _____
Ichiro Saito

Executed this 15th day of September, 2001.

By: _____
Jack Barger

State of California
County of San Diego)ss.

On September 15, 2001 before me, Carrie Merzbacher personally appeared Jack Barger personally known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is(are) 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 by 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.

WITNESS my hand and official seal.



SIGNATURE OF NOTARY

ASSIGNMENT

For good and valuable consideration, receipt of which is hereby acknowledged, we

<u>Benjamin E. Russ</u>	of	<u>San Diego, California</u>
<u>Ichiro Saito</u>	of	<u>Yokohama, Kanagawa Japan</u>
<u>Jack Barger</u>	of	<u>El Cajon, California</u>

hereby sell, assign and transfer to Sony Corporation, a Japanese corporation with offices at 7-35 Kitashinagawa 6-Chome, Shinagawa-Ku, Tokyo, Japan and Sony Electronics Inc., a Delaware corporation, having a place of business at 1 Sony Drive, Park Ridge, New Jersey 07656, its successors and assigns, the entire right, title and interest throughout the world in our invention in:

FIELD EMISSION CATHODES HAVING AN EMITTING LAYER COMPRISED OF ELECTRON EMITTING PARTICLES AND INSULATING PARTICLES

for which a United States patent application was filed on August 11, 1999, and which application now has Serial No. 09/373,028, and all patent applications and patents of every country for said invention, including divisions, reissues, continuations and extensions thereof, and all rights of priority resulting from the filing of said applications; we authorize the above-named assignee to apply for patents of foreign countries for said invention, and to claim all rights of priority without further authorization from us; we agree to execute all papers useful in connection with said United States and foreign applications, and generally to do everything possible to aid said assignee, their successors, assigns and nominees, at their request and expense, in obtaining and enforcing patents for said invention in all countries; and we request that the United States Patent and Trademark Office issue all patents granted for said invention to the above-named assignee, its successors and assigns.

Executed this _____ day of _____, 2001.

By: Benjamin E. Russ

State of _____)
) ss.
County of _____)

On _____ before me, _____ personally appeared _____ personally known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is(are) 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 by 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.

WITNESS my hand and official seal.

SIGNATURE OF NOTARY

Executed this 19th day of September, 2001.

By: Ichiro Saito
Ichiro Saito

Executed this _____ day of _____, 2001.

By: _____
Jack Barger

State of _____)
County of _____) ss.

On _____ before me, _____ personally appeared _____ personally known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is(are) 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 by 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.

WITNESS my hand and official seal.

SIGNATURE OF NOTARY