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**PATENTS ONLY**

| To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below. |
|---|

**1. Name of conveying party(ies):**

Jo Wada

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

**3. Nature of conveyance/Execution Date(s):**

Execution Date(s): April 14, 2008

☒ Assignment ☐ Merger ☐ Change of Name

☐ Security Agreement ☐ Joint Research Agreement

☐ Government Interest Assignment

☐ Executive Order 9424, Confirmatory License

☐ Other _____

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

Name: _____ Sony Corporation _____

Internal Address: _____

Street Address:

1-7-1 Konan
Minato-Ku

City: _____ Tokyo _____

State: _____

Country: _____ Japan _____ Zip: 108-0075

Additional name(s) & address(es) attached? ☐ Yes ☒ No

**4. Application or patent number(s):**     ☐ This document is being filed together with a new application.

A. Patent Application No.(s)

29/300,200

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: RADER, FISHMAN & GRAUER PLLC

Internal Address: Atty. Dkt.: SDE-2303-2

Street Address: 1233 20th Street, N.W.
Suite 501

City: _____ Washington _____

State: _____ DC _____ Zip: _____ 20036 _____

Phone Number: _____ (202) 955-3750 _____

Fax Number: _____ (202) 955-3751 _____

Email Address: _____

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

**7. Total fee** (37 CFR 1.21(h) & 3.41) $ _____ 40.00 _____

☐ Authorized to be charged by credit card

☒ Authorized to be charged to deposit account

☐ Enclosed

☐ None required (government interest not affecting title)

**8. Payment Information**

a. Credit Card     Last 4 Numbers _____
   Expiration Date _____

b. Deposit Account Number _____ 18-0013 _____
   Authorized User Name _____ Tomoko Nakajima _____

**9. Signature:**

T. Nakajima (signature)                    May 19, 2008

Signature                                    Date

Tomoko Nakajima - L0231

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: [ 3 ]

**PATENT
REEL: 020990 FRAME: 0050**

# ASSIGNMENT

WHEREAS, I, as a below named inventor, residing at the address stated next to my name, 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

## SPEAKER

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 **1-7-1 Konan, Minato-ku, Tokyo, 108-0075 JAPAN,** (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 Ten Dollar ($10.00), 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 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 assignee 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 ASSIGNEE thereof shall hereafter require and prepare at its own expense;
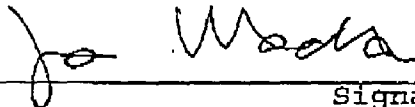
And I further agree that ASSIGNEES will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to me and will testify as to the same in 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 serial number and filing date of this application in the spaces that follow:

Serial Number: 29/300,200, Filing Date: February 29, 2008.

This assignment executed on the dates indicated below.

Jo Wada _____  April 14 2008
                          Signature                    Date

U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office

### RECORDATION FORM COVER SHEET
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Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 3

**RECORDED: 05/19/2008**

**PATENT
REEL: 020990 FRAME: 0053**