


Form PTO-1595 (Rev. 01-11)
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To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

<p>1. Name of conveying party(ies): Gen Ichimura (05/14/2009), Hidekazu Kikuchi (05/18/2009), and Yasuhisa Nakajima (05/21/2009) Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>2. Name and address of receiving party(ies) Name: <u>Sony Corporation</u> Internal Address: _____ Street Address: _____ <u>1-7-1 Konan, Minato-ku</u> <u>Tokyo</u> <u>108-0075</u> <u>JAPAN</u> City: _____ State: _____ Country: _____ Zip: _____ Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>3. Nature of conveyance/Execution Date(s): Execution Date(s): <u>In parentheses after inventor name</u> <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Change of Name <input type="checkbox"/> Security Agreement <input type="checkbox"/> Joint Research Agreement <input type="checkbox"/> Government Interest Assignment <input type="checkbox"/> Executive Order 9424, Confirmatory License <input type="checkbox"/> Other _____</p>	<p>4. Application or patent number(s): <input type="checkbox"/> This document is being filed together with a new application. A. Patent Application No.(s) <u>13/569,461</u> B. Patent No.(s) _____ Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>5. Name and address to whom correspondence concerning document should be mailed: Name: <u>Andrew T. Zidel</u> <u>LERNER, DAVID, LITTENBERG,</u> <u>KRUMHOLZ & MENTLIK, LLP</u> Internal Address: <u>Atty. Dkt.: SONYJP 3.0-1758 CON II CON</u> Street Address: <u>600 South Avenue West</u> City: <u>Westfield</u> State: <u>NJ</u> Zip: <u>07090</u> Phone Number: <u>908-654-5000</u> Fax Number: <u>908-654-7866</u> Email Address: <u>ataylor@ldikm.com</u></p>	<p>6. Total number of applications and patents involved: 1</p> <p>7. Total fee (37 CFR 1.21(h) & 3.41) \$ <u>40.00</u> <input checked="" type="checkbox"/> Authorized to be charged to deposit account <input type="checkbox"/> Enclosed <input type="checkbox"/> None required (government interest not affecting title)</p>
<p>9. Signature:  _____ Signature <u>Andrew T. Zidel - 45,256</u> Name of Person Signing</p>	<p>8. Payment Information Deposit Account Number <u>12-1095</u> Authorized User Name <u>Andrew T. Zidel</u></p> <p>_____ Date <u>November 29, 2012</u></p> <p>Total number of pages including cover sheet, attachments, and documents: 3</p>

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Docket No.:
Sony Ref. No.: S08P1313US00

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:

INTERFACE CIRCUIT

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, Japan (hereinafter referenced as ASSIGNEE) 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 ASSIGNEE, its successors, assigns, and legal representatives, my 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 ASSIGNEE, 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 ASSIGNEE or its designee, as ASSIGNEE 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 ASSIGNEE 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 application number and filing date of this application in the spaces that follow: Application Number: _____; Filing Date: _____.

This assignment executed on the dates indicated below.

Docket No.:
Sony Ref. No.: S08P1813US00

Gen ICHIMURA

Name of First or Sole Inventor

Execution Date of U.S. Patent Application

c/o SONY CORPORATION, 1-7-1 Konan, Minato-ku, Tokyo, Japan

Residence of First or Sole Inventor

Gen Ichimura

May 14, 2009

Signature of First or Sole Inventor

Date of this Assignment

Hidekazu KIKUCHI

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Execution Date of U.S. Patent Application

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Residence of Second Joint Inventor

Hidekazu Kikuchi

May 18, 2009

Signature of Second Joint Inventor

Date of this Assignment

Yasuhisa NAKAJIMA

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Execution Date of U.S. Patent Application

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Residence of Third Joint Inventor

Yasuhisa Nakajima

21 May, 2009

Signature of Third Joint Inventor

Date of this Assignment

Name of Fourth Joint Inventor

Execution Date of U.S. Patent Application

Residence of Fourth Joint Inventor

Signature of Fourth Joint Inventor

Date of this Assignment

Name of Fifth Joint Inventor

Execution Date of U.S. Patent Application

Residence of Fifth Joint Inventor

Signature of Fifth Joint Inventor

Date of this Assignment