

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT														
NATURE OF CONVEYANCE:	ASSIGNMENT														
CONVEYING PARTY DATA															
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Kyoji SHIBUTANI</td> <td>08/02/2013</td> </tr> <tr> <td>Toru AKISHITA</td> <td>08/02/2013</td> </tr> <tr> <td>Takanori ISOBE</td> <td>08/02/2013</td> </tr> <tr> <td>Taizo SHIRAI</td> <td>08/07/2013</td> </tr> <tr> <td>Harunaga HIWATARI</td> <td>08/07/2013</td> </tr> <tr> <td>Atsushi MITSUDA</td> <td>08/02/2013</td> </tr> </tbody> </table>		Name	Execution Date	Kyoji SHIBUTANI	08/02/2013	Toru AKISHITA	08/02/2013	Takanori ISOBE	08/02/2013	Taizo SHIRAI	08/07/2013	Harunaga HIWATARI	08/07/2013	Atsushi MITSUDA	08/02/2013
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<table border="1"> <tr> <td>Name:</td> <td>SONY CORPORATION</td> </tr> <tr> <td>Street Address:</td> <td>1-7-1 Konan, Minato-ku</td> </tr> <tr> <td>City:</td> <td>Tokyo</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> </table>		Name:	SONY CORPORATION	Street Address:	1-7-1 Konan, Minato-ku	City:	Tokyo	State/Country:	JAPAN						
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CORRESPONDENCE DATA															
<p>Fax Number: 7034132220 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: (703) 413-3000 Email: lrodriguez@oblon.com Correspondent Name: Oblon, Spivak, et al. Address Line 1: 1940 Duke Street Address Line 4: Alexandria, VIRGINIA 22314</p>															
ATTORNEY DOCKET NUMBER:	419597US8PCT														
NAME OF SUBMITTER:	Liz Rodriguez														
Signature:	/Liz Rodriguez/														

OP \$40.00 14006392

Date:

09/20/2013

Total Attachments: 2

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ASSIGNMENT

WHEREAS, I, as below named inventors, residing at the addresses stated next to our names, 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
DATA PROCESSING DEVICE, DATA PROCESSING METHOD, AND PROGRAM

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 referred to 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, 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 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 serial number and filing date of this application in the spaces that follow: International Application No.: PCT/JP2012/053932, International Filing Date: 2012/02/20

This assignment executed on the dates indicated below.

KYOJI SHIBUTANI	<u>August 2, 2013</u>
Name of first or sole inventor	Execution date of U.S. Patent Application
TOKYO, JAPAN	
Residence of first or sole inventor	
<u>Kyoji Shibutani</u>	<u>August 2, 2013</u>
Signature of first or sole inventor	Date of this assignment
TORU AKISHITA	<u>August 2, 2013</u>
Name of second inventor	Execution date of U.S. Patent Application
TOKYO, JAPAN	
Residence of second inventor	
<u>Toru Akishita</u>	<u>August 2, 2013</u>
Signature of second inventor	Date of this assignment
TAKANORI ISOBE	<u>August 2, 2013</u>
Name of third inventor	Execution date of U.S. Patent Application
TOKYO, JAPAN	
Residence of third inventor	
<u>Takanori Isobe</u>	<u>August 2, 2013</u>
Signature of third inventor	Date of this assignment

ADDITIONAL INVENTOR(S)

TAIZO SHIRAI
Name of fourth inventor
KANAGAWA, JAPAN
Residence of fourth inventor
Taizo Shirai
Signature of fourth inventor

August 7, 2013
Execution date of U.S. Patent Application
August 7, 2013
Date of this assignment

HARUNAGA HIWATARI
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August 7, 2013
Execution date of U.S. Patent Application
August 7, 2013
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ATSUSHI MITSUDA
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Atsushi Mitsuda
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August 2, 2013
Execution date of U.S. Patent Application
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Name of seventh inventor
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Residence of ninth inventor
Signature of ninth inventor

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