

## 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>Tomohiro Hayakawa</td> <td>06/25/2013</td> </tr> <tr> <td>Takeshi Kunihiro</td> <td>06/20/2013</td> </tr> <tr> <td>Eriko Matsui</td> <td>06/26/2013</td> </tr> </tbody> </table>		Name	Execution Date	Tomohiro Hayakawa	06/25/2013	Takeshi Kunihiro	06/20/2013	Eriko Matsui	06/26/2013				
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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</td> </tr> <tr> <td>Internal Address:</td> <td>Minato-Ku</td> </tr> <tr> <td>City:</td> <td>Tokyo</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>108-0075</td> </tr> </table>		Name:	Sony Corporation	Street Address:	1-7-1 Konan	Internal Address:	Minato-Ku	City:	Tokyo	State/Country:	JAPAN	Postal Code:	108-0075
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CORRESPONDENCE DATA													
Fax Number: 6176468646 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 617-646-8000 Email: patents_SonyAdmins@wolfgreenfield.com Correspondent Name: Wolf Greenfield & Sacks Address Line 1: 600 Atlantic Ave. Address Line 4: Boston, MASSACHUSETTS 02210													
ATTORNEY DOCKET NUMBER:	S1459.71191US00												
NAME OF SUBMITTER:	Marjorie DePina												
Signature:	/md/												
Date:	08/28/2013												
Total Attachments: 1 source=S1459.71191US00 assignment#page1.tif													

OP \$40.00 13984672

**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  
**DISPLAY CONTROL APPARATUS AND METHOD, IMAGE PROCESSING APPARATUS AND 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/JP2012/054857, International Filing Date: 2012/02/28

This assignment executed on the dates indicated below.

TOMOHIRO HAYAKAWA

Name of first or sole inventor

SAITAMA, JAPAN

Residence of First or sole inventor

Tomohiro Hayakawa

Signature of first or sole inventor

Execution date of U.S. Patent Application

June 25, 2013

Date of this assignment

TAKESHI KUNIHIRO

Name of second inventor

KANAGAWA, JAPAN

Residence of second inventor

Takeshi Kunihiro

Signature of second inventor

Execution date of U.S. Patent Application

June 20, 2013

Date of this assignment

ERIKO MATSUI

Name of third inventor

TOKYO, JAPAN

Residence of third inventor

Eriko Matsui

Signature of third inventor

Execution date of U.S. Patent Application

June 26, 2013

Date of this assignment