

PATENT ASSIGNMENT

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 Stylesheet Version v1.1

| 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>Haruo OBA</td> <td>03/14/2012</td> </tr> <tr> <td>Yusuke SAKAI</td> <td>03/16/2012</td> </tr> <tr> <td>Eijiro MORI</td> <td>03/16/2012</td> </tr> <tr> <td>Kenichi OKADA</td> <td>03/19/2012</td> </tr> <tr> <td>Katsunori TANAKA</td> <td>03/21/2012</td> </tr> <tr> <td>Shinichi HAYASHI</td> <td>03/14/2012</td> </tr> <tr> <td>Tomohiko GOTOH</td> <td>03/15/2012</td> </tr> <tr> <td>Shingo TSURUMI</td> <td>03/15/2012</td> </tr> <tr> <td>Asako TADENUMA</td> <td>03/23/2012</td> </tr> </tbody> </table> | | Name | Execution Date | Haruo OBA | 03/14/2012 | Yusuke SAKAI | 03/16/2012 | Eijiro MORI | 03/16/2012 | Kenichi OKADA | 03/19/2012 | Katsunori TANAKA | 03/21/2012 | Shinichi HAYASHI | 03/14/2012 | Tomohiko GOTOH | 03/15/2012 | Shingo TSURUMI | 03/15/2012 | Asako TADENUMA | 03/23/2012 |
| Name | Execution Date | | | | | | | | | | | | | | | | | | | | |
| Haruo OBA | 03/14/2012 | | | | | | | | | | | | | | | | | | | | |
| Yusuke SAKAI | 03/16/2012 | | | | | | | | | | | | | | | | | | | | |
| Eijiro MORI | 03/16/2012 | | | | | | | | | | | | | | | | | | | | |
| Kenichi OKADA | 03/19/2012 | | | | | | | | | | | | | | | | | | | | |
| Katsunori TANAKA | 03/21/2012 | | | | | | | | | | | | | | | | | | | | |
| Shinichi HAYASHI | 03/14/2012 | | | | | | | | | | | | | | | | | | | | |
| Tomohiko GOTOH | 03/15/2012 | | | | | | | | | | | | | | | | | | | | |
| Shingo TSURUMI | 03/15/2012 | | | | | | | | | | | | | | | | | | | | |
| Asako TADENUMA | 03/23/2012 | | | | | | | | | | | | | | | | | | | | |
| RECEIVING PARTY DATA | | | | | | | | | | | | | | | | | | | | | |
| <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 | | | | | | | | | | | | |
| Name: | SONY CORPORATION | | | | | | | | | | | | | | | | | | | | |
| Street Address: | 1-7-1 Konan, Minato-ku | | | | | | | | | | | | | | | | | | | | |
| City: | Tokyo | | | | | | | | | | | | | | | | | | | | |
| State/Country: | JAPAN | | | | | | | | | | | | | | | | | | | | |
| PROPERTY NUMBERS Total: 1 | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13393844</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 13393844 | | | | | | | | | | | | | | | | |
| Property Type | Number | | | | | | | | | | | | | | | | | | | | |
| Application Number: | 13393844 | | | | | | | | | | | | | | | | | | | | |
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OP \$40.00 13393844

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|--|--------------|
| ATTORNEY DOCKET NUMBER: | 360881US8PCT |
| NAME OF SUBMITTER: | Adel Samuel |
| Total Attachments: 4 source=360881USAssignment#page1.tif source=360881USAssignment#page2.tif source=360881USAssignment#page3.tif source=360881USAssignment#page4.tif | |

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 APPARATUS AND CONTROL METHOD

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/JP2010/062310, International Filing Date: July 22, 2010

This assignment executed on the dates indicated below.

HARUO OBA
Name of first or sole inventor
KANAGAWA JAPAN

March 14, 2012
Execution date of U.S. Patent Application

Residence of first or sole inventor
Haruho Oba
Signature of first or sole inventor

March 14, 2012
Date of this assignment

YUSUKE SAKAI
Name of second inventor
KANAGAWA JAPAN

March 16, 2012
Execution date of U.S. Patent Application

Residence of second inventor
Yusuke Sakai
Signature of second inventor

March 16, 2012
Date of this assignment

EIJIRO MORI
Name of third inventor
TOKYO JAPAN

March 16, 2012
Execution date of U.S. Patent Application

Residence of third inventor
E. Mori
Signature of third inventor

March 16, 2012
Date of this assignment

ADDITIONAL INVENTOR(S)

KENICHI OKADA
Name of fourth inventor
TOKYO JAPAN
Residence of fourth inventor

Execution date of U.S. Patent Application

Signature of fourth inventor

Date of this assignment

KATSUNORI TANAKA
Name of fifth inventor
TOKYO JAPAN

March 21, 2012
Execution date of U.S. Patent Application

Residence of fifth inventor
Katsunori Tanaka
Signature of fifth inventor

March 21, 2012
Date of this assignment

SHINICHI HAYASHI
Name of sixth inventor
GIFU JAPAN
Residence of sixth inventor

Execution date of U.S. Patent Application

Signature of sixth inventor

Date of this assignment

TOMOHIKO GOTOH
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Residence of seventh inventor

Execution date of U.S. Patent Application

Signature of seventh inventor

Date of this assignment

SHINGO TSURUMI
Name of eighth inventor
SAITAMA JAPAN
Residence of eighth inventor

Execution date of U.S. Patent Application

Signature of eighth inventor

Date of this assignment

ASAKO TADENUMA
Name of ninth inventor
TOKYO JAPAN
Residence of ninth inventor

Execution date of U.S. Patent Application

Signature of ninth inventor

Date of this assignment

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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;

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| <u>HARUO OBA</u> Name of first or sole inventor | _____ |
| <u>KANAGAWA JAPAN</u> Residence of First or sole inventor | _____ |
| _____ | _____ |
| Signature of first or sole inventor | Date of this assignment |
| <u>YUSUKE SAKAI</u> Name of second inventor | _____ |
| <u>KANAGAWA JAPAN</u> Residence of second inventor | _____ |
| _____ | _____ |
| Signature of second inventor | Date of this assignment |
| <u>EIJIRO MORI</u> Name of third inventor | _____ |
| <u>TOKYO JAPAN</u> Residence of third inventor | _____ |
| _____ | _____ |
| Signature of third inventor | Date of this assignment |

ADDITIONAL INVENTOR(S)

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Name of fourth inventor
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Residence of fourth inventor
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Signature of fourth inventor

2012.3.19
Execution date of U.S. Patent Application

20.12.3.19
Date of this assignment

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Signature of fifth inventor
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Shinichi Hayashi
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2012.3.14
Execution date of U.S. Patent Application

2012.3.14
Date of this assignment

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March 15th, 2012
Execution date of U.S. Patent Application

March, 15th, 2012
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Shingo Tsurumi
Signature of eighth inventor

March 15, 2012
Execution date of U.S. Patent Application

March 15, 2012
Date of this assignment

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Asako Tadenuma
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March, 23, 2012
Execution date of U.S. Patent Application

March 23, 2012
Date of this assignment