502256798 03/07/2013

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

| Name | Execution Date |
|-------------------|----------------|
| Naohisa KITAZATO | 02/21/2013 |
| Yoshiharu DEWA | 02/21/2013 |
| Yasuaki YAMAGISHI | 02/21/2013 |
| Jun KITAHARA | 02/21/2013 |
| Mark EYER | 02/21/2013 |

RECEIVING PARTY DATA

| Name: | SONY CORPORATION |
|-----------------|------------------------|
| Street Address: | 1-7-1 Konan, Minato-ku |
| City: | Tokyo |
| State/Country: | Japan |
| Postal Code: | 108-0075 |

| Name: | SONY ELECTRONICS INC. |
|-----------------|-----------------------|
| Street Address: | 1 Sony Drive |
| City: | Park Ridge |
| State/Country: | NEW JERSEY |
| Postal Code: | 07656 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 13753591 |

CORRESPONDENCE DATA

Fax Number: 7034132220

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: (703) 413-3000

Email: bpalmer@oblon.com

Correspondent Name: Oblon, Spivak, et al.

PATENT REEL: 029940 FRAME: 0906 DP \$40.00 137

502256798

| Address Line 1: 1940 Duke Stro Address Line 4: Alexandria, VIF | |
|--|--|
| ATTORNEY DOCKET NUMBER: | 408022US8SHX |
| NAME OF SUBMITTER: | Brian Palmer/ |
| | This document serves as an Oath/Declaration (37 CFR 1.63). |
| Total Attachments: 5 source=408022USASSN#page1.tif source=408022USASSN#page2.tif source=408022USASSN#page3.tif source=408022USASSN#page4.tif source=408022USASSN#page5.tif | |

PATENT REEL: 029940 FRAME: 0907

Attorney Docket No.: 408022US8SHX Sony Ref. No.: SP344642US01

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR MULTIPLE ASSIGNEES

| Title of Invention | RECEIVING APPARATUS, RECEIVING METHOD, AND PROGRAM |
|---|---|
| As the below | named inventor, I hereby declare that: |
| This declarati | The attached application or |
| | United States application or PCT international application number 13/753,591 filed on January 30, 2013 |
| The above-ide | entified application was made or authorized to be made by me. |
| WHEREAS, ELECTRONIC are desirous of | am the original inventor or an original joint inventor of a claimed invention in the application. SONY CORPORATION , with offices at 1-7-1 KONAN, MINATO-KU, TOKYO, 108-0075, JAPAN and SONY CS INC. with offices at 1 SONY DRIVE, PARK RIDGE, NEW JERSEY 07656 USA (hereinafter referred to as ASSIGNEES), Facquiring all interest in, to and under said invention, said application disclosing the invention and in, to and under any Letters Patent I 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 by these presents do hereby assign, sell and transfer unto said ASSIGNEES, their successors, assigns, and legal representatives, the entire right, title and interest in 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 said United States Letters Patent to said ASSIGNEES, as the assignces of the whole right, title and interest thereto; | |
| designee, as a remuneration, | agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEES or their ASSIGNEES or their successors, assigns and legal representatives may from time-to-time present to me and without further in order to perfect title in said invention, modifications, and improvements in said invention, applications and Letters Patent of the and countries foreign thereto; |
| application for | agree to properly execute and deliver and without further remuneration, such necessary or desirable and lawful papers for foreign patents, for filing subdivisions of said application for patent, and or, for obtaining any reissue or reissues of any Letters may be granted for my aforesaid invention, as said ASSIGNEES thereof shall hereafter require and prepare at their own expense; |
| application, sa | agree that ASSIGNEES will, upon their request, be provided promptly with all pertinent facts and documents relating to said id invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to me and will e same in any interference or litigation related thereto; |
| And I hereby of | covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with a rand sale. |
| • | owledge that any willful false statement made in this declaration are punishable under 18 U.S.C. 1001 by fine or imprisonment of five (5) years, or both. |
| LEGAL NAM | E OF INVENTOR T ,)1 3 a 12 |
| Inventor: | Naohisa KITAZATO Date: February 21, 2013 |
| Signature: | Mohisa Fitazato |

Attorney Docket No.: 408022US8SHX Sony Ref. No.: SP344642US01

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| of which are I legal represen in and to any any and all pr Convention R adheres, and t United States | FORE, in consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency tereby acknowledged, I by these presents do hereby assign, sell and transfer unto said ASSIGNEES, their successors, assigns, and tatives, the entire right, title and interest in said invention, said application, including any divisions and continuations thereof, and and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said invention, and in and to iority rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-American elating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America or any other benefits accruing or to accrue to me with respect to the filing of applications for patents or securing of patents in the and countries foreign thereto, and I hereby authorize and request the Commissioner of Patents to issue said United States Letters ASSIGNEES, as the assignees 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 their designee, as ASSIGNEES or their 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; | |
| application for | agree to properly execute and deliver and without further remuneration, such necessary or desirable and lawful papers for foreign patents, for filing subdivisions of said application for patent, and or, for obtaining any reissue or reissues of any Letters nay be granted for my aforesaid invention, as said ASSIGNEES thereof shall hereafter require and prepare at their own expense; |
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| And I hereby of this assignment | covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with it and sale. |
| • | owledge that any willful false statement made in this declaration are punishable under 18 U.S.C. 1001 by fine or imprisonment of five (5) years, or both. |
| LEGAL NAM | E OF INVENTOR |
| Inventor: | Yoshiharu DEWA Date: February 21 2013 |
| Signature: | John Denn |
| | 4 |

Attorncy Docket No.; 408022US8SHX Sony Ref. No.: SP344642US01

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR MULTIPLE ASSIGNEES

| 0. 1. (). | Title of Invention | RECEIVING APPARATUS, RECEIVING METHOD, AND PROGRAM |
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| The attached application or PCT international application number 13/753,591 | As the below | named inventor, I hereby declare that: |
| The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. WHEREAS, SONY CORPORATION , with offices at 1-7-1 KONAN, MINATO-KU, TOKYO, 108-0075, JAPAN and SONY ELECTRONICS INC. with offices at 1-SONY DRIVE, PARK RIDGE, NEW JERSEY 07656 USA. (hereinafter referred to as ASSIGNEES), are desirous of acquiring all interest in, to and under said invention, said application disclosing the invention din, 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 by these presents do hereby assign, sell and transfer unto said ASSIGNEES, heir successors, assigns, and legal representatives, the entire right, title and interest in 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 profession and one of the United States, and countries foreign thereto, which may be granted for said invention, and in and to any and all professions and interest in said Convention for the Protection dustrial Properly, Inter-America 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 accruring or to accrue to me with respect to the filing of applications from the United States and countries foreign thereto, and I hereby authorize and request the Commissioner of Patents to issue said United States and countries foreign thereto, and I hereby authorize and request the Commissioner of Patents to issue said United States or their designee, as ASSIGNE | | The attached application, or |
| I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. WHEREAS, SONY CORPORATION with offices at 1-7-1 KONAN, MINATO-KU, TOKYO, 108-0075, JAPAN and SONY ELECTRONICS INC. with offices at 1. SONY DIKIVE, PARK RIDGE, NEW JERSEY 07656 USA. (hereinafter referred to as ASSIGNEES), are 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 by these presents do hereby assign, sell and transfer unto said ASSIGNEES, their successors, assigns, and legal representatives, the entire right, title and interest in 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 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 said 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 said United States Letters Patent to said ASSIGNEES or their successors, assigns and legal representatives may from time-to-time present to me and without further remunerat | | filed on January 30, 2013 |
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| Inventor: Yasuaki YAMAGISHI Date: Followy 2/, 20/3 | - | |
| | | |
| Signature: (Jasuaki (Jamagishi) | Inventor: | Yasuaki YAMAGISHI Date: Tokupuy 21, 2013 |
| | Signature: | Yasuaki (Yamagishi) |

Attorney Docket No.: 408022US8SHX Sony Ref. No.: SP344642US01

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| | E OF INVENTOR |
| Inventor: | Jun KITAHARA Date: Fehrary 21, 2013 |
| Signature: | Jun Kitzhara |
| | H |

PATENT REEL: 029940 FRAME: 0911

Attorney Docket No.: 408022US8SHX Sony Ref. No.: SP344642US01

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| LEGAL NAME OF INVENTOR |
| Inventor: Mark EYER Date: 2/21/13 |
| Signature: Thirtye |

PATENT REEL: 029940 FRAME: 0912

RECORDED: 03/07/2013