

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3581167

|                                                                                                                                                                                                 |                                       |
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| <b>SUBMISSION TYPE:</b>                                                                                                                                                                         | NEW ASSIGNMENT                        |
| <b>NATURE OF CONVEYANCE:</b>                                                                                                                                                                    | ASSIGNMENT                            |
| <b>CONVEYING PARTY DATA</b>                                                                                                                                                                     |                                       |
| <b>Name</b>                                                                                                                                                                                     | <b>Execution Date</b>                 |
| YUKI YAMAMOTO                                                                                                                                                                                   | 10/13/2015                            |
| TORU CHINEN                                                                                                                                                                                     | 10/13/2015                            |
| <b>RECEIVING PARTY DATA</b>                                                                                                                                                                     |                                       |
| <b>Name:</b>                                                                                                                                                                                    | SONY CORPORATION                      |
| <b>Street Address:</b>                                                                                                                                                                          | 1-7-1 KONAN, MINATO-KU                |
| <b>City:</b>                                                                                                                                                                                    | TOKYO                                 |
| <b>State/Country:</b>                                                                                                                                                                           | JAPAN                                 |
| <b>Postal Code:</b>                                                                                                                                                                             | 108-0075                              |
| <b>PROPERTY NUMBERS Total: 1</b>                                                                                                                                                                |                                       |
| <b>Property Type</b>                                                                                                                                                                            | <b>Number</b>                         |
| <b>Application Number:</b>                                                                                                                                                                      | 14861734                              |
| <b>CORRESPONDENCE DATA</b>                                                                                                                                                                      |                                       |
| <b>Fax Number:</b>                                                                                                                                                                              | (617)646-8646                         |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> |                                       |
| <b>Phone:</b>                                                                                                                                                                                   | 617-646-8000                          |
| <b>Email:</b>                                                                                                                                                                                   | patents_SonyAdmins@wolfgreenfield.com |
| <b>Correspondent Name:</b>                                                                                                                                                                      | RANDY J. PRITZKER                     |
| <b>Address Line 1:</b>                                                                                                                                                                          | WOLF GREENFIELD & SACKS, P.C.         |
| <b>Address Line 2:</b>                                                                                                                                                                          | 600 ATLANTIC AVENUE                   |
| <b>Address Line 4:</b>                                                                                                                                                                          | BOSTON, MASSACHUSETTS 02210           |
| <b>ATTORNEY DOCKET NUMBER:</b>                                                                                                                                                                  | S1459.72012US01                       |
| <b>NAME OF SUBMITTER:</b>                                                                                                                                                                       | KELLY RODECK                          |
| <b>SIGNATURE:</b>                                                                                                                                                                               | /Kelly Rodeck/                        |
| <b>DATE SIGNED:</b>                                                                                                                                                                             | 10/22/2015                            |
| <b>Total Attachments: 2</b>                                                                                                                                                                     |                                       |
| source=S145972012US01-ASSIGN-RJP#page1.tif                                                                                                                                                      |                                       |
| source=S145972012US01-ASSIGN-RJP#page2.tif                                                                                                                                                      |                                       |

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

Title of  
Invention

ENCODING DEVICE AND METHOD, DECODING DEVICE AND METHOD, AND  
PROGRAM

As the below named inventor, I hereby declare that:

This declaration  
is directed to:

☐ The attached application, or

☒ United States application or PCT international application number 14/861,734

filed on 09/22/2015

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 (hereinafter referred to as ASSIGNEE), is desirous of  
securing 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 ASSIGNEE, its 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 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, in 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, in said 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.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of  
not more than five (5) years, or both.

LEGAL NAME OF INVENTOR

Inventor: YUKI YAMAMOTO

Date: October 13, 2015

Signature: Yuki Yamamoto

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with offices at

1-7-1 KONAN, MINATO-KU, TOKYO, 108-0075

(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 by these presents do hereby assign, sell and transfer unto said ASSIGNEE, its 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 ASSIGNEE, as the assignee of the whole right, title and interest therein;

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 release or reissues of any Letters Patent which may be granted for my aforesaid invention, as said 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 Patents 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.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

LEGAL NAME OF INVENTOR

Inventor: TORU CHINEN

Date: October 13 2015

Signature: Toru Chinen