### 504896017 05/02/2018

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4942760

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
ATSUSHI KIMURA	03/15/2018
DAISUKE TAHARA	03/08/2018
HIROYUKI SEGAWA	03/08/2018
TETSUGO INADA	03/08/2018
AKIO OHBA	03/08/2018
HIROFUMI OKAMOTO	03/09/2018

#### **RECEIVING PARTY DATA**

Name:	SONY CORPORATION	
Street Address:	reet Address: 1-7-1 KONAN, MINATO-KU	
City:	TOKYO	
State/Country:	JAPAN	
Postal Code:	108-0075	
Name:	SONY INTERACTIVE ENTERTAINMENT INC.	
Name: Street Address:	SONY INTERACTIVE ENTERTAINMENT INC. 1-7-1 KONAN, MINATO-KU	
Street Address:	1-7-1 KONAN, MINATO-KU	

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	15772935

#### CORRESPONDENCE DATA

**Fax Number:** (414)277-0656

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.

**Phone:** 414-271-6560

Email: DCipdocket@michaelbest.com

Correspondent Name: MICHAEL BEST & FRIEDRICH LLP (DC)

Address Line 1: 100 E WISCONSIN AVENUE

Address Line 2: SUITE 3300

Address Line 4: MILWAUKEE, WISCONSIN 53202

504896017 REEL: 045694 FRAME: 0319

ATTORNEY DOCKET NUMBER:	880216-2677-US01
NAME OF SUBMITTER:	CHRISTOPHER M. TOBIN
SIGNATURE:	/Christopher M. Tobin/
DATE SIGNED:	05/02/2018
Total Attachments: 6	
source=23274797_880216-2677-US01_	EFILEExecuted_Declaration_and_Assignment#page1.tif
source=23274797_880216-2677-US01_	EFILEExecuted_Declaration_and_Assignment#page2.tif
source=23274797_880216-2677-US01_	EFILEExecuted_Declaration_and_Assignment#page3.tif
source=23274797_880216-2677-US01_	EFILEExecuted_Declaration_and_Assignment#page4.tif
source=23274797_880216-2677-US01_	EFILEExecuted_Declaration_and_Assignment#page5.tif
source=23274797 880216-2677-US01	EFILE Executed Declaration and Assignment#page6.tif

Attorney Docket No.: 880216-2677-US01 Sony Ref. No.: SF364731 US00

### 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	IMAGE PROCESSING DEVICE AND METHOD	
As the below	As the below named inventor, I hereby declare that:	
This declarati	This declaration	
	United States application or PCT international application number PCT/JP2016/078849 filed on 2016/09/29	
The above-ide	ntified application was made or authorized to be made by me.	
I believe that	am the original inventor or an original joint inventor of a claimed invention in the application, SONY CORPORATION, and	
	SONY INTERACTIVE ENTERTAINMENT INC.  VAN, MINATO-KU, TOKYO, 108-0075, JAPAN, and VAN, MINATO-KU, TOKYO, 108-0075, JAPAN	
application di	respectively (hereinafter referred to as ASSIGNEES), are desirous of jointly 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 Deliar (\$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 assignees of the whole right, title and interest thereto;		
further remun	agree to execute all necessary or desirable and lawful future documents, including assignments in favor of said ASSIGNEES or (s), as ASSIGNEES or their successors, assigns and legal representatives may from time-to-time present to me and without exation, in order to perfect title in said invention, modifications, and improvements in said invention, applications and Letters in interesting the perfect title in the said invention, modifications, and improvements in said invention, applications and Letters in the said invention and the said invention and the said invention are said invention.	
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 said ASSIGNEES thereof shall hereafter require and prepare at their own expense;		
And I further agree that ASSIGNEES will, upon their 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 ackno	whedge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of five (5) years, or both.	
LEGAL NAM	E OF INVENTOR	
Inventor:	KIMURA, Atsushi Date: March 15, 2018	
Signature:	Heushi Komus	

Attorney Docket No.: 880216-2677-US01 Sony Ref. No.: SP364731 US08

# 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	IMAGE PROCESSING DEVICE AND METHOD
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 PCT/JP2016/078849 filed on 2016/09/29
The above-ide	ntified application was made or authorized to be made by me.
I believe that I WHEREAS,	am the original inventor or an original joint inventor of a claimed invention in the application.  SONY CORPORATION, and  SONY INTERACTIVE ENTERTAINMENT INC.
1-7-1 KON	AN, MINATO-KU, TOKYO, 108-0075, JAPAN, and AN, MINATO-KU, TOKYO, 108-0075, JAPAN AN, MINATO-KU, TOKYO, 108-0075, JAPAN
respectively application dis	hereinafter referred to as ASSIGNEES), are desirous of jointly acquiring all interest in, to and under said invention, said closing the invention and in, to and under any Letters Patent or similar legal protection which may be granted therefor in the and in any and all foreign countries;
legal represent in and to any a any and all pric Convention Re adheres, and to United States a	FORE, in consideration of the sum of One Dollar (\$1,00), and other good and valuable consideration, the receipt and sufficiency preby acknowledged, I by these presents do hereby assign, self and transfer unto said ASSIONEES, their successors, assigns, and atives, the entire right, title and interest in said invention, said application, including any divisions and continuations thereof, and not all Letters Patent of the United States, and countries foreign thereto, which may be granted for said invention, and in and to prity rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-American lating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America any other benefits accruing or to accrue to me with respect to the filing of applications for patents or securing of patents in the nd 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;
further remune	gree to execute all necessary or desirable and lawful future documents, including assignments in favor of said ASSIGNEES or 5), as ASSIGNEES or their successors, assigns and legal representatives may from time-to-time present to me and without ration, in order to perfect title in said invention, modifications, and improvements in said invention, applications and Letters nited States and countries foreign thereto;
appucation 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 ay be granted for my aforesaid invention, as said ASSIGNEES thereof shall hereafter require and prepare at their own expense;
appiicanon, sai	gree that ASSIGNEES will, upon their request, be provided promptly with all pertinent facts and documents relating to said discention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to me and will same in any interference or litigation related thereto;
And I hereby co this assignment	evenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with and sale.
hereby acknown than fi	viedge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of ve (5) years, or both.
LEGAL NAME	OF INVENTOR
nventor:I	AHARA, Daisuke Date: 03/08/2018
Signature;	Sara Jahana

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

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The above-ide	ntified application was made or authorized to be made by me.
	am the original inventor or an original joint inventor of a claimed invention in the application.  SONY CORPORATION, and  SONY INTERACTIVE ENTERTAINMENT INC.
1-7-1 KON	AN, MINATO-KU, TOKYO, 108-0075, JAPAN, and
	AN, MINATO-KU, TOKYO, 108-0075, JAPAN
application dis	hereinafter referred to as ASSIGNEES), are destrous of jointly acquiring all interest in, to and under said invention, said closing the invention and in, to and under any Letters Patent or similar legal protection which may be granted therefor in the and in any and all foreign countries;
of which are its legal represents in shed to any a any and all pric Convention Readheres, and to United States a Patent to said A	FORE, in consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency reby acknowledged. I by these presents do hereby assign, sell and transfer unto said ASSIGNEES, their successors, assigns, and stives, the entire right, title and interest in said invention, said application, including any divisions and continuations thereof, and nd all Letters Patent of the United States, and countries foreign thereto, which may be granted for said invention, and in and to ority rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-American lating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America any other benefits accruing or to accrue to me with respect to the filing of applications for patents or securing of patents in the nd 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 said ASSIGNEES or their designee(s), 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;	
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 said ASSIGNEES thereof shall be realter require and prepare at their own expense;	
And I further agree that ASSIGNEES will, upon their 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 co his assignment	venant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with and sale.
hereby acknow not more than fi	viedge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of ve (5) years, or both.
EGAL NAME	OF INVENTOR
nventor: S	EGAWA, Hiroyuki Date: Warch 8 2018
Signature:	2 Lingula Legama

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

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This declaration	
United States application or PCT international application number PCT/JP2016/078849 filed on 2016/09/29	
The above-identified application was made or authorized to be made by me.	
1 believe that I am the original inventor or an original joint inventor of a claimed invention in the application.  SONY CORPORATION, and  WHEREAS, SONY INTERACTIVE ENTERTAINMENT INC.	
WHEREAS, SUNY INTERACTIVE ENTERTAINMENT INC.  1-7-I KONAN, MINATO-KU, TOKYO, 108-0075, JAPAN, and	ì
1-7-1 KONAN, MINATO-KU, TOKYO, 108-0075, JAPAN	ė.
respectively (hereinafter referred to as ASSIGNEES), are desirous of jointly 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 THEREPORE, 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 filling 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 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 said ASSIGNEES or their designee(s), 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;	
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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.	
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.	
EGAL NAME OF INVENTOR	*****
nventor: INADA, Tetsugo Date: March 8, 2018	(Harmon and
ignature: Zetarza Arada	-

Attorney Docket No.: 888216-2677-US61 Sony Ref. No.: SP364731US80

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

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I believe that I WHEREAS,	am the original inventor or an original joint inventor of a claimed invention in the application.  SONY CORPORATION, and  SONY INTERACTIVE ENTERTAINMENT INC.	
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	AN, MINATO-KU, TOKYO, 108-0075, JAPAN	
application dis	respectively (hereinafter referred to as ASSIGNEES), are desirous of jointly 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 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 filling 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 assignees of the whole right, title and interest thereto;		
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application for	ugree to properly execuse 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 ay be granted for my aforesaid invention, as said ASSIGNEES thereof shall hereafter require and prepare at their own expense;	
And I further agree that ASSIGNEES will, upon their 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: C	BIBA, Akio Date: March, 8 20/8	
Signature:	War 9/10a	

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

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I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.  SONY CORPORATION, and		
WHEREAS, SONY INTERACTIVE ENTERTAINMENT INC.		
1-7-1 KONAN, MINARO-KO, TOKYO, 108-0075, JAPAN, and		
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respectively (hereinafter referred to as ASSIGNEES), are desirous of jointly 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 bereby 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 Patem 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 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 said ASSIGNEES or their designee(s), 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;		
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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: OKAMOTO, Hirofumi Date 1/2-9-248		
Signature: <u>His floot</u> Oscone, Di		

PATENT REEL: 045694 FRAME: 0326

**RECORDED: 05/02/2018**