### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6022759

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
KAZUTAKA URABE	02/01/2020
DAISUKE HIRANAKA	10/10/2019

#### **RECEIVING PARTY DATA**

Name:	me: SONY CORPORATION	
Street Address: 1-7-1 KONAN, MINATO-KU		
City:	TOKYO	
State/Country:	JAPAN	
Postal Code:	108-0075	

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

Property Type	Number
Application Number:	16612639

#### **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 (SONY)

Address Line 1: 100 E WISCONSIN AVENUE

Address Line 2: SUITE 3300

Address Line 4: MILWAUKEE, WISCONSIN 53202

ATTORNEY DOCKET NUMBER: 880001-6521-US01	
NAME OF SUBMITTER: CHRISTOPHER M. TOBIN	
SIGNATURE: /Christopher M. Tobin/	
<b>DATE SIGNED:</b> 03/19/2020	
	This document serves as an Oath/Declaration (37 CFR 1.63).

#### **Total Attachments: 2**

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PATENT 505976051 REEL: 052192 FRAME: 0163

Attorney Docket No.: Sony Ref. No.: SF369233US00.

## 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	AND INFORMATION PROCESSING DEVICE, INFORMATION PROCESSING METHOD, AND INFORMATION PROCESSING PROGRAM	
As the below named inventor, I hereby declare that:		
This declarati	The attached amilianian as	
	United States application or PCT international application number PCT/JP2018/017732 filed on 2018/05/08	
The above-id-	inified application was made or authorized to be made by ms.	
	I am the original inventor or an original joint inventor of a claimed invention in the application.  SONY CORPORATION . with offices at	
1-7-1 KO	SONY CORPORATION , with offices at NAN, MINATO-EU, TOKYO, 108-9075, 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 Param or similar legal protection which may be graved 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 accuse 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 designer, 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 remaneration, 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 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 this assignme	coverant that no assignment, sale, agreement or encombrance has been or will be made or entered into which would conflict with ni and sale.	
	owledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisorment of five (5) years, or both.	
LÉGÁL NAM	4E OF INVENTOR	
Inventor:	KAZUTAKA URABE Date: February 1, 2020	
Signature:	Signature: X044Talla, U1ALE	

PATENT REEL: 052192 FRAME: 0164

Attorney Docket No.; Sony Ref. No.: SP369233US00

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

As the below named inventer, I hereby declare that:  This declaration is directed to:    United States application or PCT international application number   PCT/JP2018/017732	Title of Invention	INFORMATION PROCESSING DEVICE, INFORMATION PROCESSING METHOD, AND INFORMATION PROCESSING PROGRAM	
The altrached application, or  United States application or PCT international application number PCT/IP2018/017732  filed on 2018/05/08  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  1-7-1 KONAN, MINATO-KU, TOKYO, 108-0075, JAPAN (hereisafter referred to as ASSIGNED), is desirous of acquiring all interest in, to and under said invention, add application disclosing the invention and in, to and under any Letters Patent or similar legal protection which may be greated therefor in the United States and in any and all foreign countries.  NOW THEREFORE, in consideration of the sum of One Delbar (\$1.00), and other good and valuable consideration, the receipt and aufficiency 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 its said invention, and it and to any and all Letters Plantor of the Dulled States, and countries foreign thereto, which may be granted for said invention, and it and to any and all Letters Plantor of the Dulled States, and countries foreign thereto, which may be granted for said invention, and it and to any and all principle rights and/or convention rights under convention rights under the International Convention for the Property, later-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States and countries foreign thereto, and I hereby surface and requires the Commissioner of Patents to issue said United States and countries foreign thereto, and I hereby surface and requires the Commissioner of Patents to issue said United States and countries foreign 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 the below	named inventor, I hereby declare that:	
The above identified application was made or authorized to be made by me.  Ibelieve that I am the original inventor or an original joint inventor of a claimed invention in the application.  WHEREAS, SONY CORPORATION		on The attached application, or	
Believe that I am the original inventor or an original joint inventor of a claimed invention in the application.  WHEREAS, SONY CORPORATION		10.131.2011/01.732	
WHEREAS. SONY CORPORATION  1-7-1 KONAN, MINATO-KU, TOKYO, 108-0075, 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 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 division 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 a mad 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 which the United States America adheres, and to any other benefits accruing or to accrue to me with respect to the filting 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, as ASSIGNEE or its successors, assigns and legal representatives may from time-to-time present to me and without further renumeration, in order to perfect title in said invention, and interest thereto;  And I further agree to properly execute and deliver and without further remun	The above-id	mtified application was made or authorized to be made by me.	
nequiring 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 many and all foreign countries;  NOW THEREFORE, in consideration of the sum of One Dolan (\$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 priority rights and/or convention rights under the International Convention for the Proteon 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 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 renumeration, in order to perfect title in said invention, 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 renumeration, such necessary or desirable and lawful papers for application for foreign patents, for filing subdivisions of said application for loreign patents for ling	WHEREAS,	SONY CORPORATION , with offices at	
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 of 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, 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 ressues 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	1-7-1 KONAN, MINATO-KU, TOKYO, 108-0075, 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		
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 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:  DAISUKE HIRANAKA  Date:	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		
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 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:  Date:  Da	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		
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: DAISUKE HIRANAKA  Date: Delta // 2019	application for foreign patents, for filing subdivisions of said application for patent, and or, for obtaining any reissue or reissues of any Letters		
this assignment and sale.  1 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: DAISUKE HIRANAKA  Date: Delta Delt	application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to me and will		
ILEGAL NAME OF INVENTOR  Inventor: DAISUKE HIRANAKA  Date: Delay 10, 20, 19			
Inventor: DAISUKE HIRANAKA  Date: Odo Geo // Zo 19	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.		
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Signature: Daisuke Hinghaka	Inventor:	DAISUKE HIRANAKA Date: October 10 2019	
5 20 00	Signature:	Daisoka Hiranaka	

RECORDED: 03/19/2020

PATENT REEL: 052192 FRAME: 0165