#### 504938110 05/31/2018

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4984856

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
SHINGO TSURUMI	04/16/2018
MASASHI ESHIMA	04/17/2018
TAKAAKI KATO	04/17/2018
TATSUKI KASHITANI	04/17/2018
AKIHIKO KAINO	04/16/2018
MASAKI FUKUCHI	04/16/2018
TAKUTO MOTOYAMA	04/16/2018
SUGURU AOKI	04/16/2018

### **RECEIVING PARTY DATA**

Name:	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:	15762120

#### **CORRESPONDENCE DATA**

Fax Number: (617)646-8646

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: 617-646-8000

Email: patents SonyAdmins@WolfGreenfield.com

**Correspondent Name:** RANDY J. PRITZKER

Address Line 1: WOLF, GREENFIELD & SACKS, P.C.

Address Line 2: **600 ATLANTIC AVENUE** 

Address Line 4: BOSTON, MASSACHUSETTS 02210

ATTORNEY DOCKET NUMBER:	S1459.72301US00
NAME OF SUBMITTER:	JESSICA O. VALLI
SIGNATURE:	/Jessica O. Valli/

PAIENI REEL: 045946 FRAME: 0021 504938110

DATE SIGNED:	05/31/2018
Total Attachments: 8	
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PATENT REEL: 045946 FRAME: 0022

Attorney Docket No.: \$1459.72301US00

Sony Ref. No.: SP364827US00

### 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	PARATUS AND METHOD FOR MEASUREMENT, AND PROGRAM		
As the below name	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/JP2016/077225		
	filed on $09/15/2016$		
The above-identifie	ed application was made or authorized to be made by me.		
	the original inventor or an original joint inventor of a claimed invention in the application.  ONY CORPORATION , with offices at		
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	st in, to and under said invention, said application disclosing the invention and in, to and under any Letters Patent or similar ich 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;			
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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 cover this assignment and	nant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with I sale.		
I hereby acknowled not more than five	dge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of (5) years, or both.		
LEGAL NAME OF INVENTOR			
Inventor: SHI	NGO TSURUMI Date: Spril 16, 20/8		
Signature:	Shingo Iswumi		

Attorney Docket No.: S1459.72301US00 Sony Ref. No.: SP364827US00

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The above-ide	entified application was made or authorized to be made by me.		
I believe that WHEREAS,	I am the original inventor or an original joint inventor of a claimed invention in the application.  SONY CORPORATION , with offices at		
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	nterest in, to and under said invention, said application disclosing the invention and in, to and under any Letters Patent or similar on which may be granted therefor in the United States and in any and all foreign countries;		
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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 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.			
	owledge 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	TE OF INVENTOR		
Inventor:	MASASHI ESHIMA Date: Cypril 17, 20/8		
Signature: _	Masashi Eshima		

6221864.1

Attorney Docket No.: S1459.72301US00 Sony Ref. No.: SP364827US00

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This declaration is directed to:  The attached application, or		
United States application or PCT international application in filed on $09/15/2016$	number PCT/JP2016/077225	
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 WHEREAS, SONY CORPORATION	the application.	
	ereinafter referred to as ASSIGNEE), is desirous of	
acquiring all interest in, to and under said invention, said application disclosing the invention legal protection which may be granted therefor in the United States and in any and all foreign	and in, to and under any Letters Patent or similar	
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, includesignee, as ASSIGNEE or its successors, assigns and legal representatives may from remuneration, in order to perfect title in said invention, modifications, and improvements in the United States and countries foreign thereto;	time-to-time present to me and without further	
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;		
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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.		
I hereby acknowledge that any willful false statement made in this declaration is punishable not more than five (5) years, or both.	under 18 U.S.C. 1001 by fine or imprisonment of	
LEGAL NAME OF INVENTOR	1 ( 17 7-1P	
Inventor: TAKAAKI KATO	Date: April 17, 2018	
Signature: Lanki Rets		

Attorney Docket No.: \$1459.72301US00 Sony Ref. No.: \$P364827US00

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	United States application or PCT international application number PCT/JP2016/077225  filed on 09/15/2016		
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 , with offices at		
1-7-1 KO	NAN, MINATO-KU, TOKYO, 108-0075 (hereinafter referred to as ASSIGNEE), is desirous of		
	nterest in, to and under said invention, said application disclosing the invention and in, to and under any Letters Patent or similar in 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;			
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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 t and sale.		
	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:	TATSUKI KASHITANI Date: April 17, 2018		
Signature:	Tool Lasken		

6221864.1

Attorney Docket No.: S1459.72301 US00

Sony Ref. No.: SP364827US00

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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 NAM	ME OF INVENTOR	
Inventor:	AKIHIKO KAINO Date: 20/8/4/16	
Signature:	Afeitiste Kain	

6221864.1

Attorney Docket No.: S1459.72301US00

Sony Ref. No.: SP364827US00

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LEGAL NAM	1E OF INVENTOR	
Inventor:	MASAKI FUKUCHI Date: 20/8/4//6	
Signature:	Marchi Fahrchi	

Attorney Docket No.: S1459.72301US00

Sony Ref. No.: SP364827US00

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LEGAL NAME OF INVENTOR  20/8/4/6		
Inventor:	TAKUTO MOTOYAMA Date:	
Signature:	Takento Motoyama	

Attorney Docket No.: S1459.72301US00

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LEGAL NAME OF INVENTOR		
Inventor:	SUGURU AOKI Date: 20/8/4/16	
Signature: Fugura Aoki		

6221864.1

**PATENT REEL: 045946 FRAME: 0030** 

**RECORDED: 05/31/2018**