#### 503715235 03/01/2016

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3761876

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
TOMOO MITSUNAGA	01/05/2016
SHUN KAIZU	01/07/2016
TEPPEI KURITA	01/08/2016
TORU NISHI	01/22/2016

#### **RECEIVING PARTY DATA**

Name:	e: 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:	14905794

#### 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

RANDY J. PRITZKER **Correspondent Name:** 

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

Address Line 2: **600 ATLANTIC AVENUE** 

Address Line 4: BOSTON, MASSACHUSETTS 02210

ATTORNEY DOCKET NUMBER:	S1459.72076US00
NAME OF SUBMITTER:	KELLY RODECK
SIGNATURE:	/Kelly Rodeck/
DATE SIGNED:	03/01/2016

#### **Total Attachments: 4**

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Asturney Docket No.: Sony Bef. No.: SP333033USO

## 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 IMAGE PICKUP DEVICE, IMAGE PICKUP METHOD, AND PROGRAM Invention	
As the below maned inventor, I hereby decises that:	
This declaration  is directed to:  The stracted application, or	
Dented States application or PCT international application number PCT/3P2014/068543  filed on2014/07/11	
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 officer as	
WHEREAS, SONY CORPORATION , with offices is 1-7-1 KONAN, MINATO-KU, TOKYO, 108-9075, JAPAN (hereinafter referred to as ASSKONEE), is desirous of	
scaping all interest in, to sud under soid 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 Che Dollar (\$1.60), and other good and valuable consideration, the receipt and sufficiency of which are beneby acknowledged. I by these presents do hereby assign, self and transfer auto 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 Lotters 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 accurage 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 exempts all necessary or desirable and lowful future decoments, including assignments in favor of ASSIGNEE or its designee, as ASSIGNEE or its successors, assigns and logal representatives may from time-to-time present to me and without further remanentation, in order to perfect title in said invention, insuffications, and improvements in said invention, applications and Letters Patent of the United States and countries foreign thereby:	
And I limited agree to properly execute and deliver and without further remuneration, such necessary or desirable and leaded papers for application for foreign patents, for filing subdivisions of said application for patent, and or, for obtaining any missue or reissues of any Letters Patent which may be ground for my aforesaid invention, as said ASSIGNEE thereof shall hereafter require and prepare at its own expresse;	
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 hitigation related thereto;	
And I hardly coverant that so sestignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.	
I hardy acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1801 by fine or imprisonment of not more than five (5) years, or both.	
LEGAL NAME OF INVENTOR	
towns: TOMOO MITSUNAGA Date: January 5 Zz / L	
\$40000	

Attorney Bocket No.: Sony Ref. No.: SP353053US00

### 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	IMAGE PICKUP DEVICE, IMAGE PICKUP METHOD, AND PROGRAM
As the below	named inventor, I hereby dictars that:
This declarati	on The anachad application, or
	United States application or PCT international application number PCT/JP2014/068543  filed on 2014/07/11
The above-id	suified application was made or authorized to be made by me.
I believe that WHEREAS,	Fan the original inventor or an original joint inventor of a claimed invention in the application.  SONY CORPORATION , with offices at
1-7-3 800	SONY CORPORATION , with offices at NAN, MINATO-KU, TOKYO, 108-0075, JAPAN (Bestimalize referred to as ASSENEE), is desirous of
acidiensindi aa	isterest 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 hemby acknowledged, I by these presents do beneby assign, sell and transfer times and ARSIGNEE, its successors, assigns, and legal representatives, the entire right, title and interest is said invention, said application, including any divisions and continuations thereof, and in and to any and all Letters Patent of the United States, and constries foreign thereby, which may be granted for said invention, and in and to any and all priority rights under convention rights under the International Convention for the Protection of Industrial Property, Inter-American Convention Belating 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 interest the Commissioner of Patents to name and United States Letters Patent to said AESIGNEE, as the assignee of the whole right, title and interest thereto;	
designee, us remuneration	agree to execute all necessary or desirable and lowful founc documents, including assignments in favor of ASSIGNEE or its ASSIGNEE or its successors, assigns and legal representatives may from time-as-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 two and countries foreign thereto;
application 5	agree to properly execute and deliver and without further remaineration, such necessary or desirable and lawful papers for a foreign patents, for filing additivisions 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 ASSIGNEE thereof shall hereafter require and prepare at its own expense.
application,	sagree that ASSIONEE will, span its request, be provided pramptly with all pertinent facts and documents relating to said aid invention and said Letters Passas and legal equivalents in foreign countries as may be known and accessible to me and will be same in any interference or hitgalical related thereto:
And I hereby covenant that no assignment, sale, agreement or excumbrance has been or will be made or entered into which would conflict with this assignment and sale.	
I bereby acknowledge that any willful false statement made in this declaration is panishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (8) years, or both.	
LEGAL NAME OF ISVENTOR	
Inventor	
Signature	Sham Kaiza

Atterney Docket No.: Sony Ref. No.: SP353053USCO

# 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	IMAGE PICKUP DEVICE, IMAGE PICKUP METHOD, AND PROGRAM
As the below manust inventor, I hereby dischare that:	
This declaration is directed to:	On The attached application, or
	United States application or PCT international application number PCT/IP2014/068543  iiled on _2014/07/11
	unified application was made or authorized to be usade by me.
	t am the original inventor or an original joint inventor of a claimed invention in the application.  SONY CORPORATION with offices at
1-7-1 KC	SONY CORPORATION with offices at NAN, MINATO-KU, TOKYO, 108-0075, JAPAN (hereinafter referred to as ASSIGNEE), is desirous of
acquinne au	interest in, to and under said invention, said application disclosing the invention and in, to and under any Leners Patent or similar or which may be granted therefor in the United States and in any and all foreign countries;
of which are legal represent in and to any any and all pr Convention I adhems, and United States	EPORE, in consideration of the sum of One Dollar (\$1,00), and other good and valuable consideration, the receipt and sufficiently hereby actional deposition and expressions of hereby assign, sell and transfer unto said ASSIGNEE, its successors, assigns, and darrows, the entire right, title and interest in said invention, said application, including any divisions and communications thereof, and and all Letters Petent of the United States, and commines foreign theren, which may be granted for said invention, and in such to intry rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-American claims to Patents. Designs and Industrial Models, and any other international agreements to which the United States of America to any other herefits accruing or to accrue to see 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 and United States Letters ASSIGNEE, as the assignee of the whole right, title and interest thereto:
designee, as remaneration	agree to execute all necessary or describle and lawful forme documents, including assignments in favor of ASSIGNEE or its ASSIGNEE or its auccessors, 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 Louers Patent of ales and countries foreign thereo;
amplication fi	r agree to properly execute and deliver and without further remaneration, such necessary or desirable and lawful papers for ir 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 aforexaid invention, as said ASSIGNEE thereof shall bereather require and prepare at its own expense.
application, s	r agree that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said aid invention and said Letters Patent and legal aquivalents in foreign countries as may be known and accessible to me and will be same in any interference or linguism 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 nt and sale.
	rowledge that any willful false statement made in this destaration is punishable under 18 U.S.C. 1001 by fine or improvement of fare (5) years, or hoth.
LEGAL NAME OF INVENTOR	
foremer:	TEPPELKURITA Doc Amary & 1.200
Signature:	Terrei Karita

Attorney Docket No.: Sony Ref. No.: SP353053US00

# 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 IMAGE PICKUP DEVICE, IMAGE PICKUP 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 PCT/JP2014/068543  filed on 2014/07/11	
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 (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 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 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: TORUNISHI Date: January 22, 20/6	
Signature: Toru Vishi	

**RECORDED: 03/01/2016**