#### 11/18/2015 503575184

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3621811

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
KENJIRO UEDA	09/30/2015
TATEO OISHI	10/01/2015
KOUICHI UCHIMURA	09/30/2015
MASAYA YAMAMOTO	10/21/2015
KAORU MURASE	10/21/2015
HIROSHI YAHATA	10/21/2015

#### **RECEIVING PARTY DATA**

Name:	SONY CORPORATION
Street Address:	1-7-1 Konan, Minato-ku
City:	Tokyo
State/Country:	Japan
Postal Code:	108-0075
Name:	PANASONIC CORPORATION
Name: Street Address:	PANASONIC CORPORATION  1006, OAZA KADOMA
Street Address:	1006, OAZA KADOMA

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

Property Type	Number
Application Number:	14944748

#### **CORRESPONDENCE DATA**

Fax Number: (703)413-2220

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: (703) 413-3000

Email: mguerrero@oblon.com

**Correspondent Name:** OBLON, ET AL. Address Line 1: 1940 DUKE STREET

Address Line 4: ALEXANDRIA, VIRGINIA 22314

**PATENT** 503575184

**REEL: 037073 FRAME: 0343** 

ATTORNEY DOCKET NUMBER:	460521US8X
NAME OF SUBMITTER:	MELANIE GUERRERO
SIGNATURE:	/Melanie Guerrero/
DATE SIGNED:	11/18/2015
	This document serves as an Oath/Declaration (37 CFR 1.63).

### **Total Attachments: 6**

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Attorney Docket No.: Sony Ref. No.: SP3624011/801

### 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	INFORMATION PROCESSING DEVICE, INFORMATION RECORDING MEDIUM, INFORMATION PROCESSING METHOD, AND PROGRAM
As the below	nomed inventor, I hereby declare that:
This declarates is directed to	THE PART OF A TAX TAX PARTIES AND A SANDAR AND
	United States application or PCY international application mander filed on
The above-td	lentified application was made or mathorized to be made by me.
Ubelieve that	Ham the original inventor or an original joint inventor of a claimed invention in the application.  SONY CORPORATION, and
WHEREAS,	이 등다는 그런 내용에 하나를 받는다. 사람들은 다른 전문을 하는 것으로 하는데 되었다면 하는데 되었다면 하는데 되었다면 하는데 되었다면 그 것으로 하는데 되는데 되었다면 하는데 되었다면 하는데 다른데 되었다면 하는데 하는데 되었다면 하는데
1-7-1 KO	NAN, MINATO-KU, TOKYO, 108-0075, JAPAN, and IZA KADOMA, KADOMA-SHI, OSAKA, 571-8501, JAPAN
respectively application d	(hereinafter referred to as ASSIGNEES), are desirous of jointly acquiring all interest in, to and under said invention, said listlying the invention and in, to and under any Letters Patent or similar legal protection which may be granted therefor in the said in any and all foreign countries;
of which are legal represent in and to any any and all p Convention I adheres, and United States	CFORE, in consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency hereby acknowledged. I by these presents do hereby assign, sell and transfer unto said ASSIGNEES, their successors, assigns, and matives, the entire right, title and interest in said invention, said application, including any divisions and continuations thereof, and a and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said invention, and in and to starry rights and/or convention rights under the International Convention for the Projection of Industrial Property. Inter-American Relating to Patents. Designs and Industrial Models, and any other international agreements to which the United States of America to any other benefits accruing or to accuse to see with respect to the filling of applications for patents or securing of patents in the stand countries foreign thereto, and I hereby authorize and request the Commissioner of Patents to issue said United States Letters of ASSIGNUES, as the assignores of the whole right, title and interest thereto:
their designe further ressu	r agree to execute all necessary or desirable and lawful future documents, including assignments in favor of said ASSIGNEES or co(s), as ASSIGNEES or their successors, assigns and legal representatives may from time-to-time present to me and without meration, in order to perfect title in said invention, modifications, and improvements in said invention, applications and Letters.  United States and countries foreign thereto:
application f	er agree to properly execute and deliver and without further renuncration, such necessary or desirable and lawful papers for for foreign patents, for filing subdivisions of said application for patent, and or, for obtaining any reissue or reissues of any Letters i may be granted for my aforesaid invention, as said ASSIGNEES thereof shall bereafter require and prepare at their own expense;
application,	er agree that ASSKINEES will, upon their request, be provided promptly with all pertinent facts and documents relating to said and invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to me and will the same in any interference or litigation related thereo;
And I hereby this assignme	y covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with our and sale.
	nowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of in five (5) years, or both.
	ME OF INVENTOR
Inventor	Kenjim UEDA Due: Soptimber 30, 26/5
Signature	Kenyino Veda

Attorney Docket No.: Sony Ref. No.: SP362461UN01

### 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	INFORMATION PROCESSING DEVICE, INFORMATION RECORDING MEDIUM, INFORMATION PROCESSING METHOD, AND PROGRAM	
As the below	As the below named inventor, I bereby declare that:	
This declarati is directed to:	m 🗵 The attachad application, or	
	United States application to PCT international application number	
	(Red on	
The above ide	miffed application was made or authorized to be made by me.	
	ism the original inventor or an original joint inventor of a classed invention in the application. SONY CORPORATION, and	
WHEREAS,	PANASONIC CORPORATION , with officess at	
1-7-1 KO! 1006, OA.	PANASONIC CORPORATION , with offices at VAN, MINATO-KU, TOKYO, 108-0075, JAPAN, and VA KADOMA, KADOMA-SHI, OSAKA, 571-8501, JAPAN ,	
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:		
of which are I legal represent in and to any any and all pr Convention R adheres, and United States	FORE, in consideration of the sum of One Dollar (\$1,00), and other good and valuable consideration, the receipt and sufficiency pereby acknowledged. I by these presents do hereby assign, sell and transfer unto said ASSIGNEES, their successors, assigns, and tailives, the entire right, title and interest in said invention, said application, including any divisions and continuations thereof, and and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said invention, and in and to sority rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-American elating to Patents. Designs and Industrial Models, and any other international agreements to which the United States of America o any other benefits accruing or to accrue to me 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 said United States Letters ASSIGNEES, as the assignces of the whole right, title and interest thereto;	
their designe further remu	agree is execute all necessary or desirable and lawful future documents, including assignments in favor of said ASSIGNEES or 5(s), as ASSIGNEES or their successors, assigns and legal representatives may from time-to-time present to me and without ceration, in order to perfect title in said invention, modifications, and improvements in said invention, applications and Letters (Inited States and countries foreign thereto;	
application fo	agree to properly execute and deliver and without further remaneration, such necessary or destrable and lawful papers for a 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 aforesaid invention, as said ASSKINEES thereof shall be reafter require and prepare at their own expense;	
application, s	agoss that ASSIGMEES will, upon their request, be provided promptly with all pertinent facts and documents relating to said aid invention and said Letters Patent and legal equivalents in fereign countries as may be known and accessible to me and will be same in any interference or litigation related thereto:	
And I hereby this assignme	covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with nt and sale.	
	owledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1901 by fine or imprisonment of five (5) years, or both.	
LEGAL NAS	AE OB INVENTOR	
Inventor:	Taleo OISHI Date: 1 October 2015	
Signature:	Tolan Onto	

Attorney Docket No.: Sony Ref. No.: SP3624011/S01

### 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 INFORMATION PROCESSING DEVICE, INFORMATION RECORDING MEDIUM, INFORMATION PROCESSING METHOD, AND PROGRAM
As the below named inventor, I hereby declare that:
This discharation II The attached application, or is directed to:
United States application or PCT international application number
filest on
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.  SONY CORPORATION, and
WHEREAS, PANASONIC CORPORATION , with offices at
I-7-I KONAN, MINATO-KU, TOKYO, 108-0073, JAPAN, and I006, OAZA KADOMA, KADOMA-SHI, OSAKA, 571-8501, JAPAN
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 gramed 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, little and inscreas 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;
And I further agree to execute all necessary or desirable and levelul future documents, including assignments in favor of said ASSIGNEES or their designer(s), as ASSIGNEES or their mecessors, maigns and legal representatives may from time-to-time present to me and without further remanentism, 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 ASSIGNEES thereof shall beceafter 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 fureign countries as may be known and accessible to me and will testify as to the same in any interference or hitigation related thereby;
And I hereby covenant that no assignment, sale, agreement or encombrance 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
Invensor Konichi UCHIMURA Duse September 30, 2015
Signature: Kowchi Uchi waka

10-0492807 (更久全本211)

Attorney Docket No.: Sony Ref. No.: SP362401US01

# 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	INFORMATION PROCESSING DEVICE, INFORMATION RECORDING MEDIUM, INFORMATION PROCESSING METHOD, AND PROGRAM
As the below i	named inventor, I hereby declare that:
This declaration is directed to:	The attached application, or
	United States application or PCT international application number filed on
The above-ide	ntified 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.  SONY CORPORATION, and
WHEREAS.	DANIA CONIC CODDOD A TIONI
1-7-1 KON	AN, MINATO-KU, TOKYO, 108-0075, JAPAN, and
1006, OAZA KADOMA, KADOMA-SHI, OSAKA, 571-8501, JAPAN  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;	
of which are he legal represent in and to any a any and all pri- 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 ereby acknowledged, I by these presents do hereby assign, sell and transfer unto said ASSIGNEES, their successors, assigns, and attives, the entire right, title and interest in said invention, said application, including any divisions and continuations thereof, and 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 clating 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 und 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;
their designee( further remune	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 tration, in order to perfect title in said invention, modifications, and improvements in said invention, applications and Letters inited States and countries foreign thereto;
application 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 has be granted for my aforesaid invention, as said ASSIGNEES thereof shall hereafter require and prepare at their own expense;
application, sa	agree that ASSIGNEES will, upon their request, be provided promptly with all pertinent facts and documents relating to said id invention 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 c	ovenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with t and sale.
	wledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of ive (5) years, or both.
LEGAL NAM	E OF INVENTOR
Inventor:	Masaya YAMAMOTO Date: October 21, 2015
Signature:	Max 5

(US 本主)原)

Attorney Docket No.: Sony Ref. No.: SP362401US01

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

INFORMATION PROCESSING DEVICE, INFORMATION RECORDING MEDIUM, INFORMATION PROCESSING 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
filed on
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.  SONY CORPORATION, and
WHEREAS, PANASONIC CORPORATION , with offices at
1-7-1 KONAN, MINATO-KU, TOKYO, 108-0075, JAPAN, and 1006, OAZA KADOMA, KADOMA-SHI, OSAKA, 571-8501, JAPAN
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 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;
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;
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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 more than five (5) years, or both.
LEGAL NAME OF INVENTOR
Inventor: Kaoru MURASE Date: October 21, 2015
Signature: Kan Murase

P682946-01)利)

Attorney Docket No.: Sony Ref. No.: SP362401US01

## 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	entified 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
	PANASONIC CORPORATION , with offices at
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respectively application di	(hereinafter referred to as ASSIGNEES), are desirous of jointly acquiring all interest in, to and under said invention, said sclosing 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;
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 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;	
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application, sa	agree that ASSIGNEES will, upon their request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to me and will e same in any interference or litigation related thereto;
And I hereby this assignmen	covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with at 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	E OF INVENTOR
Inventor:	Hiroshi YAHATA Date: October 21, 2015
Signature:	Think Gelide