#### 502222997 02/07/2013

#### PATENT ASSIGNMENT

### Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Kazuyoshi Takemura	01/07/2013
Kuniya Hayashi	01/07/2013
Takanori Washiro	01/07/2013
Isao Soma	01/09/2013
Kayoko Tanaka	01/07/2013
Yoichiro Sako	01/08/2013
Kazutoshi Serita	01/20/2013
Satoshi Higano	01/11/2013

#### **RECEIVING PARTY DATA**

Name:	Sony Corporation
Street Address:	1-7-1 Konan
Internal Address:	Minato-ku
City:	Tokyo
State/Country:	JAPAN
Postal Code:	108-0075

#### PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13760427

#### **CORRESPONDENCE DATA**

**Fax Number**: 6176468646

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

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Email: patents\_SonyAdmins@wolfgreenfield.com

Correspondent Name: Wolf Greenfield & Sacks

Address Line 1: 600 Atlantic Ave.

Address Line 4: Boston, MASSACHUSETTS 02210

**PATENT** 

REEL: 029770 FRAME: 0687

OF \$40.00 13/6042/

502222997

ATTORNEY DOCKET NUMBER:	S1459.71453US00
NAME OF SUBMITTER:	Marjorie DePina
Total Attachments: 8	
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source=S1459.71453US00 assignment#page3.tif source=S1459.71453US00 assignment#page4.tif	
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# 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	METHOD
As the below	named inventor, I hereby declare that:
This declaration is directed to:	The attached application, or
The above-ide	United States application or PCT international application number filed on  Intified 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
1-7-1 KO	NAN, MINATO-KU, TOKYO, 108-0075, JAPAN (hereinefter referred to as ASSIGNIES) is desired.
acquiring all in legal protection	nterest in, to and under said invention, said application disclosing the invention and in, to and under any Letters Patent or similar n which may be granted therefor in the United States and in any and all foreign countries;
legal represent in and to any a any and all pri Convention Re adheres, 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 tereby acknowledged, I by these presents do hereby assign, sell and transfer unto said ASSIGNEE, its successors, assigns, and atives, 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 ority rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-American countries of Patents, Designs and Industrial Models, and any other international agreements to which the United States of American can easily 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 ASSIGNEE, as the assignee of the whole right, title and interest thereto;
remuneration,	agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEE or its 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 Letters Patent of es and countries foreign thereto;
Patent which m	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 as be granted for my aforesaid invention, as said ASSIGNEE thereof shall hereafter require and prepare at its own expense;
	agree that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said d 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 or this assignment	ovenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with and sale.
I hereby acknown not more than fi	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 NAME	OF INVENTOR
Inventor: K	Date: January 7, 20/3
Signature:	lozujoshi Tokemura
	U

## 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	METHOD	
As the below	named inventor, I hereby declare that:	
This declarati	XI The attached application or	
	United States application or PCT international application number	
	filed on	
The above-id	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	
	NAN, MINATO-KU, TOKYO, 108-0075, JAPAN (hereinafter referred to as ASSIGNEE), is desirous of	
	interest 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;	
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;		
designee, as remuneration	agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEE or its ASSIGNEE or its successors, 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 Letters Patcnt of ates and countries foreign thereto;	
application for	r agree to properly execute and deliver and without further remuneration, such necessary or desirable and lawful papers for or 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 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.		
	nowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of a five (5) years, or both.	
LEGAL NAI	ME OF INVENTOR	
Inventor:	KUNIYA HAYASHI Date: Jahvary 7, 12013	
Signature:	Kuniya Hayashi	

# 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	METHOD
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This declaration is directed to:	· · · · · · · · · · · · · · · · · · ·
The shave-ide	United States application or PCT international application number filed on  Intified 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
acquiring all is	nterest in, to and under said invention, said application disclosing the invention and in, to and under any Letters Patent or similar which may be granted therefor in the United States and in any and all foreign countries;
legal represent in and to any a any and all pri- Convention Re adheres, 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 pereby acknowledged, I by these presents do hereby assign, sell and transfer unto said ASSIGNEE, its successors, assigns, and atives, 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 countries to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America or 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 ASSIGNEE, as the assignee of the whole right, title and interest thereto;
remuneration,	agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEE or its successors, 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 Letters Patent of es and countries foreign thereto;
Patent which m	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 as be granted for my aforesaid invention, as said ASSIGNEE thereof shall hereafter require and prepare at its own expense;
And I further a application, said testify as to the	agree that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said dinvention 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	ovenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with and sale.
I hereby acknown not more than fi	wiedge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of we (5) years, or both.
	OF INVENTOR
	AKANORI WASHIRO Date: January 7, 2013
Signature:	ahanori Washiro

### 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	APPLIANCE MANAGEMENT APPARATUS AND APPLIANCE MANAGEMENT METHOD	
As the below	named inventor, I hereby declare that:	
This declarati	on	
	United States application or PCT international application number filed on	
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	
1-7-1 KO	NAN, MINATO-KU, TOKYO, 108-0075, JAPAN (hereinafter referred to as ASSIGNEE), is desirous of	
acquiring all i	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;	
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 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;		
designee, as remuneration,	agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEE or its ASSIGNEE or its successors, 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 Letters Patent of tes and countries foreign thereto;	
application to	agree to properly execute and deliver and without further remuneration, such necessary or desirable and lawful papers for r 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 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 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.	
I hereby acknown not more than	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:	ISAO SOMA Date: January 9, 2013	
Signature:	Leav Loune	

### 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	METHOD	
As the below	named inventor, I hereby declare that:	
This declarati	X The etteched emplication as	
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The above-ide	entified application was made or authorized to be made by me.	
WHEREAS,	I am the original inventor or an original joint inventor of a claimed invention in the application.  SONY CORPORATION , with offices at	
acquiring all i	NAN, MINATO-KU, TOKYO, 108-0075, JAPAN (hereinafter referred to as ASSIGNEE), is desirous of neterest 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;	
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 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 under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.		
LEGAL NAME OF INVENTOR		
Inventor:	KAYOKO TANAKA Date: Jamany 7, 2013	
Signature:	Karyoko Fanaha	

## 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	APPLIANCE MANAGEMENT APPARATUS AND APPLIANCE MANAGEMENT METHOD		
As the below	named inventor, I hereby declare that:		
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	United States application or PCT international application number filed on		
The above-id	entified 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			
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designee, as remuneration	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;		
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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 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 NA	LEGAL NAME OF INVENTOR		
Inventor:	YOICHIRO SAKO  Date: January 8, 2013		
Signature:	( Goiching Sako		

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

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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 assignce of the whole right, title and interest thereto;			
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application fo	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 acknown not more than	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:	KAZUTOSHI SERITA Date: January 10, 2013		
Signature:	Kamtes/in Recent		

# 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	APPLIANCE MANAGEMENT APPARATUS AND APPLIANCE MANAGEMENT METHOD
As the below named inventor, I hereby declare that:	
This declarati	on
	United States application or PCT international application number
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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	
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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;	
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LEGAL NAM	E OF INVENTOR
Inventor:	SATOSHI HIGANO Date: Jahuang 11, 20, 3
Signature:	Satarla Higan

PATENT REEL: 029770 FRAME: 0696

**RECORDED: 02/07/2013**