503279089 04/24/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3325707

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SUMIO OKADA	01/13/2015
HIROSHI NAKAYAMA	03/04/2015
RYOTA SAKAMOTO	01/15/2015
CHIKA MIURA	01/16/2015
TSUTOMU KAWACHI	02/01/2015
MASAYUKI CHATANI	01/15/2015
EIJI MIYAKAWA	01/21/2015

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14625141

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: mvukovic@oblon.com
Correspondent Name: OBLON, ET AL.

Address Line 1: 1940 DUKE STREET

Address Line 4: ALEXANDRIA, VIRGINIA 22314

ATTORNEY DOCKET NUMBER: 442067US8PHASSIGNMENT	
NAME OF SUBMITTER:	MARA VUKOVIC
SIGNATURE:	/Mara Vukovic/
DATE SIGNED:	04/24/2015

This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 7

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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	MEDIUM	AGE
Invention		
As the below	low named inventor, I hereby declare that:	
This declarate is directed to	The attached application, or United States application or PCT international application number	
	filed on	•
The above-id	e-identified application was made or authorized to be made by me.	
I believe that WHEREAS,	that I am the original inventor or an original joint inventor of a claimed invention in the application. AS, SONY CORPORATION	with offices at
	KONAN, MINATO-KU, TOKYO, 108-0075, JAPAN (hereinafter referred to as ASSIGNEE	
acquiring all legal protecti	all interest in, to and under said invention, said application disclosing the invention and in, to and under any Letters Paction which may be granted therefor in the United States and in any and all foreign countries;	ntent or similar
legal represe in and to any any and all p Convention I adheres, and United States Patent to said	are hereby acknowledged, I by these presents do hereby assign, sell and transfer unto said ASSIGNEE, its successor esentatives, the entire right, title and interest in said invention, said application, including any divisions and continuatio any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said invention all priority rights and/or convention rights under the International Convention for the Protection of Industrial Property, I on Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States and to any other benefits accruing or to accrue to me with respect to the filling of applications for patents or securing of lates and countries foreign thereto, and I hereby authorize and request the Commissioner of Patents to issue said United Stated ASSIGNEE, as the assignee of the whole right, title and interest thereto;	ns thereof, and ,, and in and to inter-American tes of America f patents in the d States Letters
designee, as remuneration	rther agree to execute all necessary or desirable and lawful future documents, including assignments in favor of AS as ASSIGNEE or its successors, assigns and legal representatives may from time-to-time present to me and value, in order to perfect title in said invention, modifications, and improvements in said invention, applications and L d States and countries foreign thereto;	vithout further
application f	rther agree to properly execute and deliver and without further remuneration, such necessary or desirable and law on for foreign patents, for filing subdivisions of said application for patent, and or, for obtaining any reissue or reissues nich may be granted for my aforesaid invention, as said ASSIGNEE thereof shall hereafter require and prepare at its ow	of any Letters
application,	rther agree that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents ton, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to the same in any interference or litigation related thereto;	elating to said to me and will
	reby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which wou nment and sale.	ld conflict with
	acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or in than five (5) years, or both.	nprisonment of
LEGAL NA	NAME OF INVENTOR	
Inventor: _	SUMIO OKADA Date: 20/5/01/13	
Signature:	: Sumio Okada	

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	MEDIUM	HON PROCES	SING DEVICE,	CONTROL	METHOD, A	MD SIC	KAGE
•		5 ¹ 1 .					
As the below	named inventor, I	hereby declare that:					
This declarati	1 I	The attached applica	tion, or				
		United States applica	tion or PCT international	application num	per 14/625,141		
		filed on Februar	y 18, 2015				
The above-id	entified applicatio	n was made or author	ized to be made by me.				
WHEREAS,	SONY COR	PORATION	l joint inventor of a clain	ned invention in	he application.		, with offices at
1-7-1 KC	NAN, MINAT	O-KU, TOKYO,	108-0075, JAPAN	(he	ereinafter referred to	as ASSIGN	EE), is desirous of
acquiring all legal protecti	interest in, to and on which may be	under said invention, granted therefor in the	said application disclosi United States and in any	ng the invention y and all foreign	and in, to and undecountries:	er any Letter	s Patent or similar
of which are legal represein and to any any and all p Convention I adheres, and United States	hereby acknowled tratives, the entired and all Letters Periority rights and/o Relating to Patents to any other bene- is and countries for	dged, I by these prese right, title and interes atent of the United Sta or convention rights u s, Designs and Industr fits accruing or to accreign thereto, and I he	One Dollar (\$1.00), and ents do hereby assign, se st in said invention, said ates, and countries foreignder the International Corial Models, and any other true to me with respect to reby authorize and reque ole right, title and interest	and transfer using the return the reto, which in the reto, which invention for the return the retur	nto said ASSIGNE iding any divisions i may be granted for Protection of Indu- greements to which plications for pater	E, its succesured and continuous said inven- strial Proper the United at sor securing	ssors, assigns, and ations thereof, and tion, and in and to ty, Inter-American States of America g of patents in the
designee, as remuneration	ASSIGNEE or i	its successors, assign act title in said invent	irable and lawful future is and legal representati ion, modifications, and it	ives may from:	time-to-time prese	nt to me ar	d without further
application f	or foreign patents,	for filing subdivision	er and without further ras of said application for tion, as said ASSIGNEE	patent, and or, f	or obtaining any re	issue or reis	sues of any Letters
application,	said invention and		s request, be provided p and legal equivalents in related thereto;				
And I hereby this assignment		assignment, sale, agre	eement or encumbrance I	nas been or will	oe made or entered	into which v	would conflict with
	nowledge that any n five (5) years, or		nt made in this declaration	on is punishable	under 18 U.S.C. 10	001 by fine o	or imprisonment of
LEGAL NA	ME OF INVENTO)R					
Inventor:	HIROSHI NA	AKAYAMA			Date: March	4th,	2015
Signature:	Jaroshi	nakayana					

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

	INFORMA'	TION PROC	ESSING DEVI	CE, CONT	ROL METH	IOD, AND ST	FORAGE
Title of Invention	MEDIUM						
		1 199	PL, a	e .	4		
As the below	named inventor, 1	hereby declare tha	ta				
This declarati	on sa						
is directed to:	IXI	The attached appl	ication, or				
			lication or PCT intern	ational application	on number		· · · · · · · · · · · · · · · · · · ·
		filed on					
The above-id	entified applicatio	n was made or auti	horized to be made by	v me.			
	7,5 1						
I believe that WHEREAS.		inventor or an origi PORATION	inal joint inventor of	a claimed inven	non in the applica	tion.	, with offices at
			O, 108-0075, JAP	AN	(hereinafter r	eferred to as ASSI	GNEE), is desirous of
acquiring all	interest in, to and	under said inventio	on, said application d	isclosing the in	vention and in, to	and under any Let	ters Patent or similar
legal protection	on which may be s	granted therefor in	the United States and	in any and all i	foreign countries;		
of which are legal represer in and to any any and all pr Convention F adheres, and United States Patent to said And I further	hereby acknowled tratives, the entire and all Letters Periority rights and/o kelating to Patents to any other benefit and countries for ASSIGNEE, as the	dged, I by these pright, title and into- tient of the United or convention rights, Designs and Indu- fits accruing or to a reign thereto, and I he assignee of the vi-	resents do hereby asserest in said invention. States, and countries a under the International Models, and ascerue to the with reshereby authorize and whole right, title and desirable and lawful.	ign, sell and tra is, said application is foreign thereto inal Convention may other interna- spect to the fill if request the Co- interest thereto; future documer	unsfer unto said A on, including any of , which may be g for the Protection tional agreements g of applications immissioner of Pa ats, including assi	ASSIGNEE, its suc- divisions and conti- ranted for said inva- of Industrial Prop- to which the Unit for patents or secu- tents to issue said gnments in favor	except and sufficiency accessors, assigns, and muations thereof, and tention, and in and to perty, Inter-American and States of American aring of patents in the United States Letters of ASSIGNEE or its and without further
remuneration	, in order to perfe ates and countries	et title in said inve	ention, modifications	, and improvem	ents in said inven	ntion, applications	and Letters Patent of
application for	or foreign patents,	for filing subdivis		on for patent, a	nd or, for obtainin	ig any reissue or n	nd lawful papers for cissues of any Letters its own expense;
application, s	and invention and	said Letters Pater	its request, be provint and legal equivalentian related thereto;	rided promptly nts in foreign co	with all pertinent ountries as may be	t facts and docume known and acce	nents relating to said ssible to me and will
And I hereby this assignment		assignment, sale, a	greement or encumb	rance has been o	or will be made or	entered into whic	h would conflict with
	nowledge that any n five (5) years, or		ment made in this de	claration is pun	shable under 18 U	J.S.C. 1001 by fin	e or imprisonment of
LEGAL NA!	ME OF INVENTO)R					*
Inventor:	RYOTA SAK	LAMOTO	i i i i i i i i i i i i i i i i i i i		Date:	2015/01	/15
Signature:	Pyota	Sakaun	oto				

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

žanžusi 🔅	INFORMATION PROCESSING DEVICE, CONTROL M	AETHOD, AND ST	ORAGE
Title of Invention	MEDIUM		
As the below	named inventor, I hereby declare that:		÷.
This declarati	X The attraction commitmetion as		
	United States application or PCT international application number	9.1 9.3 1.3	
	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 SONY CORPORATION	application.	, with offices at
		inafter referred to as ASSIC	
acquiring all	interest in, to and under said invention, said application disclosing the invention an on which may be granted therefor in the United States and in any and all foreign cou	d in, to and under any Lett	
legal represer in and to any any and all pr Convention F adheres, and United States Patent to said And 1 further	hereby acknowledged, I by these presents do hereby assign, sell and transfer unto natives, the entire right, title and interest in said invention, said application, including and all Letters Patent of the United States, and countries foreign thereto, which may rights and/or convention rights under the International Convention for the Probating to Patents, Designs and Industrial Models, and any other international agree to any other benefits accruing or to accrue to me with respect to the filing of applies and countries foreign thereto, and I hereby authorize and request the Commissional ASSIGNEE, as the assignee of the whole right, title and interest thereto;	ng any divisions and continually be granted for said involvements of Industrial Proprements to which the Uniterations for patents or securer of Patents to issue said thing assignments in favor of	nuations thereof, and ention, and in and to erty, Inter-American and States of America ring of patents in the United States Letters
remuneration	ASSIGNEE or its successors, assigns and legal representatives may from tim, in order to perfect title in said invention, modifications, and improvements in sai ates and countries foreign thereto;		
application for	r agree to properly execute and deliver and without further remuneration, such or foreign patents, for filing subdivisions of said application for patent, and or, for may be granted for my aforesaid invention, as said ASSIGNEE thereof shall hereaf	obtaining any reissue or re	issues of any Letters
application, s	r agree that ASSIGNEE will, upon its request, be provided promptly with all p said invention and said Letters Patent and legal equivalents in foreign countries as he 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 rent and sale.	made or entered into which	would conflict with
	nowledge that any willful false statement made in this declaration is punishable und in five (5) years, or both.	der 18 U.S.C. 1001 by fine	e or imprisonment of
LEGAL NA	ME OF INVENTOR		
Inventor:	CHIKA MIURA Dat	e 2015/01	116
Signature:	Chika Miura		*:

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

INFORMATION PROCESSING DEVICE, CONTROL METHOD, AND STU	DRAGE
Invention MEDIUM	er fall gja
As the below named inventor, I hereby declare that:	
This declaration	
is directed to:	
United States application or PCT international application number	e e e e e e e e e e e e e e e e e e e
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.	
WHEREAS, SONY CORPORATION	, with offices at
1-7-1 KONAN, MINATO-KU, TOKYO, 108-0075, JAPAN (hereinafter referred to as ASSIGN	
acquiring all interest in, to and under said invention, said application disclosing the invention and in, to and under any Letter legal protection which may be granted therefor in the United States and in any and all foreign countries;	s Patent or similar
NOW THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the recei	pt and sufficiency
of which are hereby acknowledged, I by these presents do hereby assign, sell and transfer unto said ASSIGNEE, its successing legal representatives, the entire right, title and interest in said invention, said application, including any divisions and continuation.	sors, assigns, and
in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said invention	tion, and in and to
any and all priority rights and/or convention rights under the International Convention for the Protection of Industrial Propert Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United	y, Inter-American
adheres, and to any other benefits accruing or to accrue to me with respect to the filing of applications for patents or securin	g of patents in the
United States and countries foreign thereto, and I hereby authorize and request the Commissioner of Patents to issue said Un	ited 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 designee, as ASSIGNEE or its successors, assigns and legal representatives may from time-to-time present to me an	
remuneration, in order to perfect title in said invention, modifications, and improvements in said invention, applications and	1 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	
application for foreign patents, for filing subdivisions of said application for patent, and or, for obtaining any reissue or reiss Patent which may be granted for my aforesaid invention, as said ASSIGNEE thereof shall hereafter require and prepare at its	
And I further agree that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documen	
application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessil testify as to the same in any interference or litigation related thereto;	ble to me and will
And I hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which we this assignment and sale.	ould conflict with
низ азмеринен инф мис.	
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine of not more than five (5) years, or both.	r imprisonment of
LEGAL NAME OF INVENTOR	
Inventor: TSUTOMU KAWACHI Date: 2015/2/1	
Signature: Tsutimu Kanachi	

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

	INFORMATION PI	ROCESSING DEVICE	CONTROL MET	HOD, AND ST	URAGE
Title of Invention	MEDIUM				
As the below	named inventor, I hereby decl	are that:			
	Maria Companya (1997)				
This declarati is directed to:	X The attack	ed application, or			
	United Stat	es application or PCT internation	al 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 a	in original joint inventor of a clai	med invention in the appli	cation.	
WHEREAS,	SONY CORPORATION	N		wayaya waxaya waxay	, with offices at
		OKYO, 108-0075, JAPAN	······································	referred to as ASSIG	
		nvention, said application disclo- efor in the United States and in a			ers Patent or similar
legal represer in and to any any and all p Convention I adheres, and United States Patent to said	ntatives, the entire right, title a and all Letters Patent of the riority rights and/or convention celating to Patents, Designs at to any other benefits accruing and countries foreign thereto I ASSIGNEE, as the assignce	hese presents do hereby assign, and interest in said invention, said United States, and countries fore in rights under the International Cond Industrial Models, and any of or to accrue to me with respect, and I hereby authorize and requof the whole right, title and interestry or desirable and lawful futur	I application, including an ign thereto, which may be convention for the Protecti her international agreemen to the filing of application test the Commissioner of I est thereto;	y divisions and contingranted for said inve on of Industrial Proposts to which the Unite is for patents or secur Patents to issue said U	nuations thereof, and ention, and in and to erty, Inter-American ed States of America ing of patents in the United States Letters
designee, as remuneration	ASSIGNEE or its successo	rs, assigns and legal representation invention, modifications, and	nives may from time-to-t	ime present to me :	and without further
application for	or foreign patents, for filing si	and deliver and without further abdivisions of said application for aid invention, as said ASSIGNE	r patent, and or, for obtain	ring any reissue or rei	issues of any Letters
application,	r agree that ASSIGNEE wil said invention and said Letter he same in any interference or	, upon its request, be provided s Patent and legal equivalents in litigation related thereto;	promptly with all pertine foreign countries as may	ent facts and docume be known and acces	ents relating to said sible to me and will
And I hereby this assignment	***	sale, agreement or encumbrance	has been or will be made	or entered into which	would conflict with
	nowledge that any willful fals n five (5) years, or both.	e statement made in this declarat	ion is punishable under 18	3 U.S.C. 1001 by fine	or imprisonment of
LEGAL NA	ME OF INVENTOR				
Inventor:	MASAYUKI CHATAY	AI .	Date:	January 1	5th, 2015
Signature:	Marayak C	hatair			

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	INFORMATION PROCESSING DEVICE, CONTROL METHOD, AND STORAGE MEDIUM
Invention	
As the below	named inventor, I hereby declare that:
This declarate is directed to:	X The attracted anniversary or
	United States application or PCT international application number
	filed on
The above-id	fentified 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
	ONAN, 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 ion which may be granted therefor in the United States and in any and all foreign countries;
legal represer in and to any any and all p Convention I adheres, and United States Patent to said And I furthe	hereby acknowledged, I by these presents do hereby assign, sell and transfer unto said ASSIGNEE, its successors, assigns, and intatives, 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 priority rights and/or convention rights under the International Convention for the Protection 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 accrue to me with respect to the filing of applications for patents or securing of patents in the sand countries foreign thereto, and I hereby authorize and request the Commissioner of Patents to issue said United States Letters d'ASSIGNEE, as the assignee of the whole right, title and interest thereto;
remuneration	ASSIGNEE or its successors, assigns and legal representatives may from time-to-time present to me and without further a, in order to perfect title in said invention, modifications, and improvements in said invention, applications and Letters Patent of tates and countries foreign thereto;
application for	er 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 may be granted for my aforesaid invention, as said ASSIGNEE thereof shall hereafter require and prepare at its own expense;
application,	er agree that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said said 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 thereto;
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 ent 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.
LEGAL NA	ME OF INVENTOR
Inventor:	EIJI MIYAKAWA Date: January 21, 2015
Signature:	25/hts

PATENT REEL: 035503 FRAME: 0063

RECORDED: 04/24/2015