### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3207973

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
SHINOBU HATTORI	11/26/2014
HIROAKI ETO	09/26/2014
TAKUMI TSURU	09/26/2014
KENICHI KANAI	09/26/2014
TOSHIYA HAMADA	09/26/2014

#### 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:	14490444				

#### **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: mkassaye@oblon.com

Correspondent Name: OBLON, ET AL.

Address Line 1: 1940 DUKE STREET

Address Line 4: ALEXANDRIA, VIRGINIA 22314

/Mesfin Kassaye/
02/02/2015
This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 5

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Attorney Docket No.: 441815US6541-6541-8 Sony Ref. No.: SP353806US00

## 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	DECODING DEVICE AND DECODING METHOD, ENCODING DEVICE, AND ENCODING METHOD			
As the below	named inventor, I hereby declare that:			
This declarati	Tribut manufacture and a manuf			
	United States application or PCT international application number filed on 2014/08/25 PCT/JP2014/072104			
The above-ide	entified application was made or authorized to be made by me.			
WHEREAS, 1-7-1 KC acquiring all	I am the original inventor or an original joint inventor of a claimed invention in the application.  SONY CORPORATION  , with offices at DNAN, 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;			
of which are legal represent in and to any any and all pre Convention Readheres, and the United States	EFORE, 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 ASSIGNEE, its successors, assigns, and tatives, 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 iority 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 of 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;			
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;				
application fo	agree to properly execute and deliver and without further remuneration, such necessary or desirable and lawful papers for r foreign patents, for filling 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, s	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 equivalents in foreign 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.			
I hereby ackn 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	1E OF INVENTOR			
Inventor:	SHINOBUHATTORI Date: Mon 26, 2014			
Signature:	Spin In Steellen			

Attorney Docket No.: Sony Ref. No.: SP353806US00

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

	DECODIN	G DEVICE AN	D DECODING	METHOD	, ENCO	DING D	EVICE, A	ND
Title of		G METHOD				. 1 V		
Invention	LL 1CODE	C NAME AND A				25, 1	fast to the	?
38 .								
As the below	named inventor 1	hereby declare that:	4: 4,	10	ř.	4.38	4.1	
3.40		morely decide than.	18 6.0		- 24 1			
This declarati	on —							
is directed to:	الــا	The attached applica	tion, or			1 JS 2 53G1 B	31	\$
				**************************************		: 1/2.51		3 %
25	X							e <sup>le</sup> di
) P	لكا	United States applica	tion or PCT internatio	nal application n	umber <u>I</u>	PCT/JP201	4/072104	· «
		filed on2014/08	/25				7.000	· · · · · · · · · · · · · · · · · · ·
			3 N. N. M.	996			.: ************************************	
The above-ide	entified applicatio	n was made or authori	ized to be made by me	<b>.</b>			***	
r Carrie						. 42 A C	A.	
		nventor or an original	joint inventor of a cli	umed invention	in the app	dication.		J. 2.
WHEREAS,	SONY COR						i i	, with offices at
		O-KU, TOKYO,						), is desirous of
acquiring all i legal protection	nterest in, to and on which may be p	under said invention, granted therefor in the	said application discle United States and in	osing the invent any and all fore	ion and in ga countri	, to and under ics;	r any Letters P	atent or similar
legal represent in and to any any and all pr Convention R adheres, and t United States Patent to said  And I further designee, as remuneration, the United States	tatives, the entire and all Letters Pa- iority rights and/o clating to Patents o any other beneil and countries for ASSIGNEE, as if agree to execute ASSIGNEE or in order to perfe- ites and countries		t in said invention, saites, and countries for aler the International ald Models, and any o ue to me with respect eby authorize and req le right, title and inter- rable and lawful future and legal represent on, modifications, and	id application, is cign thereto, where there internations is to the filing of quest the Commercest thereto; are documents, is atives may from Improvements	neluding a nich may be the Protect al agreeme application issioner of neluding a m time-to in said in	ny divisions a pe granted for tion of Indus ents to which so so the patent Patents to is assignments i -time presen vention, appl	and continuation said invention trial Property, the United States or securing of succession favor of AS to me and sications and Lications and	ans thereof, and a, and in and to Inter-American ites of America f patents in the d States Letters SIGNEE or its without further etters Patent of
Patent which	r foreign patents, may be granted fo	y execute and delive for filing subdivisions r my aforesaid inventi	s of said application from the said ASSIGNE	or patent, and o E thereof shall	r, for obtai hereafter r	ining any reis equire and pr	sue or reissues epare at its ow	s of any Letters n expense;
application, st	ud invention and	GNEE will, upon its said Letters Patent ar erference or litigation i	id legal equivalents is	I promptly with a foreign countr	i all pertir ies as may	nent facts an y be known a	d documents r and accessible	elating to said to me and will
And I hereby of this assignmen	covenant that no and sale.	ssignment, sale, agree	ement or encumbrance	e has been or wi	II be made	or entered in	nto which woul	ld conflict with
Thereby acknown not more than	owledge that any five (5) years, or	willful false statemen both	t made in this declara	tion is punishab	le under l	8 U.S.C. 100	11 by fine or in	nprisonment of
LEGAL NAM	E OF INVENTO	R		**************************************	<del></del>			······································
Inventor:	HIROAKI ET	0	-		Date:	Septe	nber 26	2014
Signature:	<u>Hiroaki</u>	Etc		**************************************		*		

Attorney Docket No.: Sony Ref. No.: SP353806US00

## 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	ENCODING METHOD  ENCODING METHOD			
	· · · · · · · · · · · · · · · · · · ·			
As the below	named inventor, I hereby declare that:			
This declarati	What are taken a man through the control of the con			
	United States application or PCT international application number PCT/JP2014/072104  filed on 2014/08/25			
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 legal protection	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;			
of which are legal represent in and to any any and all pr Convention R adheres, and I United States	BFORE, 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 ASSIGNEE, its successors, assigns, and tatives, 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 iority 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 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 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;			
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 ites 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;				
application, s	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 equivalents in foreign countries as may be known and accessible to me and will be same in any interference or litigation related thereto;			
And I hereby this assignment	covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with int and sale.			
I hereby acknoon 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	IE OF INVENTOR			
Inventor:	TAKUMITSURU Date: September 26, 20/4			
Signature:	Takumi Tsuru			

Attorney Docket No.: Sony Ref. No.: SP353806US00

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

Trible and the	DECODING	G DEVICE ANI	D DECODING	METHOD	, ENCOI	DING DEVICE	, AND
Title of Invention	ENCODING	G METHOD					
	22 . 24						
As the below	named inventor, I	hereby declare that:					
					ing. Nama		
This declarati	1. 1	The attached applicat			To the state of th		3
is directed to:	- TASE .	тис апасиса арриса	uon, o				i
*	S-A	20	H # 8				% E.
	XI:	United States applicat	tion or PCT internation	onal application n	number PC	T/JP2014/07210	4
		filed on2014/08/	/25				
8	1724	- X					
The above-ide	entified application	n was made or authori	zed to be made by m	e.		0 *	
I believe that	I am the original is	nventor or an original	ioint inventor of a cl	aimed invention	in the applic	ation.	
WHEREAS,	SONY COR						, with offices at
_1-7-1 KO	NAN, MINAT	O-KU, TOKYO, I	108-0075, JAPAN	1	(hereinafter	referred to as ASSIG	
acquiring all i	interest in, to and i	under said invention, pranted therefor in the	said application discl United States and in	osing the invent any and all forei	tion and in, to	o and under any Lette	
NOW THEP	reope i deogr	ida. Maratan merena antahan	A 15 11 /A 1 AN				radio de la composição de
of which are	eroke, in considi	eration of the sum of ( lged, I by these preser	One Dollar (\$1.00), a nts do hereby assion	ind other good at sell and transfe	nd valuable ( er unto said	consideration, the rec	eipt and sufficiency
legal represen	tatives, the entire	right, title and interest	t in said invention, sa	id application, is	neludino anv	divisions and contin	untions thereof and
in and to any	and all Letters Pa	tent of the United Sta	tes, and countries for	reign thereto, wh	hich may be:	granted for said inve	ntion, and in and to
Convention R	ionty rights and/o clating to Patents	r convention rights un Designs and Industri	ider the International	Convention for	the Protection	on of Industrial Prope	erty, Inter-American
adheres, and t	o any other benef	its accruing or to accr	ue to me with respec	t to the filing of	ar agreement Fapolications	s to which the Unite s for natents or secur	ing of natents in the
United States	and countries fore	ign thereto, and I her	eby authorize and re-	quest the Comm	issioner of P	atents to issue said U	United States Letters
Patent to said	ASSIGNEE, as th	e assignee of the who	le right, title and inte	rest thereto;			<b></b>
And I further	agree to execute	all necessary or desir	rable and lawful fun	ire documents i	inclinding ace	sionmente in favor o	f ASSIGNIFE or its
designee, as	ASSIGNEE or it	s successors, assigns	and legal represen	tatives may fro	m time-to-ti	me present to me a	and without further
remuneration,	in order to perfec	et title in said invention	on, modifications, an	d improvements	in said inve	ntion, applications a	nd Letters Patent of
the United Six	ites and countries	loreign mercto;					ê de la companya de
And I further	agree to properl	y execute and deliver	r and without furthe	r remuneration,	such necess	sary or desirable and	d lawful papers for
application to	r foreign patents,	for filing subdivisions r my aforesaid inventi	of said application I	for patent, and o	r. for obtaini	ng any reissue or rei	ssues of any Letters
And I further	agree that ASSI	GNEE will, upon its	request, be provide	d promptly with	h all pertines	nt facts and docume	mts relating to said
application, sa	aid invention and	said Letters Patent an	nd legal equivalents i	in foreign count	rics as may l	be known and access	sible to me and will
testify as to th	e same in any inte	rference or litigation r	related thereto;				
And I hereby	covenant that no a	ssignment, sale, agree	ement or encumbrance	e has been or wi	ill be made o	ir entered into which	would conflict with
this assignmen	nt and sale.						CONTRACTOR OF STANCE
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not more than	five (5) years, or	both.	i made in tins decial.	ation is punisuat	ne unuer ra	O.S.C. Tool by fine	or imprisonment of
LEGAL NAM	IE OF INVENTO	R		<del>.</del>		<del></del>	······································
Inventor:	KENICHI KA	NAI			Date:	September.	26,2014
Signature:	Kenichi k	<u>anai</u>					

Attorney Docket No.: Sony Ref. No.: SP353806US00

### 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	DECODING DEVICE AND DECODING METHOD, ENCODING DEVICE, AND ENCODING METHOD			
AUACUGOU.				
As the below	named inventor, I hereby declare that:			
This declarati	The state of the s			
	☐ United States application or PCT international application number PCT/JP2014/072104			
	filed on			
The above-ide	entified application was made or authorized to be made by me.			
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of which are legal represent in and to any any and all pro- Convention Readheres, and the United States	EFORE, 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 ASSIGNEE, its successors, assigns, and tatives, 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 iority 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 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 ites and countries foreign (hereto;			
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application, sa	agree that ASSIGNEE will, upon its 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 be 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	IE OF INVENTOR			
Inventor:	TOSHIYA HAMADA Date: September 26, 2014			
Signature:	Toshiya Hamada			

**RECORDED: 02/02/2015**