### PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
SHIRO SUZUKI	11/11/2020
SHUICHIRO NISHIGORI	11/10/2020
HIROFUMI TAKEDA	11/11/2020
JUN MATSUMOTO	12/23/2020

#### **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:	17255537

#### **CORRESPONDENCE DATA**

**Fax Number:** (617)646-8646

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

using a lax number, it provided, it that is unsuccessful, it will be sent via

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**Email:** cfallon@wolfgreenfield.com,

SonyAdministrators@WolfGreenfield.com

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ATTORNEY DOCKET NUMBER: \$1459.72606US00

NAME OF SUBMITTER: CONNOR J. FALLON

SIGNATURE: /Connor J. Fallon/

DATE SIGNED: 07/09/2021

**Total Attachments: 4** 

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PATENT REEL: 056804 FRAME: 0903

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Title of Invention	ENCODING APPARATUS, ENCODING METHOD, DECODING APPARATUS, DECODING METHOD, TRANSMISSION SYSTEM, RECEIVING APPARATUS, AND PROGRAM
Docket Number	SYP328091US01
As the below named	nventor, I hereby declare that:
This declaration	The attached application, or
is directed to:	United States application or PCT international application number <a href="PCT/JP2019/017711">PCT/JP2019/017711</a> filed on <a href="PCT/JP2019/017711">25 April 2019</a> .
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.
	e that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine of more than five (5) years, or both.
WHEREAS	, Sony Corporation
hereinafter referred to 1-7-1 Konan, Minato-k	as "ASSIGNEE") having a place of business at: u, Tokyo,Japan
desires to acquire the application;	ne entire right, title and interest in said invention and the above-identified United States patent
acknowledged, I her identified United Sta and reissues, extensi in countries foreign	REFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby eby assign to the ASSIGNEE, the entire right, title and interest in said invention and in the abovetes patent application and in all divisions, continuations and continuations-in-part of said application, one and renewals of Letters Patent granted thereon, and in all corresponding patent applications filed to the United States ("foreign countries") and corresponding international patent applications, and in using on any such patent applications in the United States and foreign countries;
I hereby asso	ign to the ASSIGNEE the right to file patent applications in foreign countries on said invention in its ight to claim priority to the above-identified United States patent application under the terms of the ition and any other relevant treaties;
foreign countries to interest in and to	thorize and request the United States Patent & Trademark Office and officials in patent offices in issue any and all of said Letters Patent to the ASSIGNEE as the assignee of my entire right, title and the same, for the sole use and behoof of the ASSIGNEE, its successors, assigns, and legal e full end of the term for which said Letters Patent may be granted; and
respecting said invercontinuation-in-part, Letters Patent to be	ree that, without further consideration, I will communicate to the ASSIGNEE any facts known to me tion, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause said ssued to the ASSIGNEE, make all rightful oaths, and, perform all lawful acts to aid the ASSIGNEE, igns, to obtain and enforce Letters Patent for said invention in the United States and foreign countries.
LEGAL NAME OI	INVENTOR
-	
Inventor: SHIRO S	UZUKI Date: 2020/11/11
Signature: /Shiro Su	cuki/

Title of Inv	vention	ENCODING APPARATUS, ENCODING METHOD, DECODING APPARATUS, DECODING METHOD, TRANSMISSION SYSTEM, RECEIVING APPARATUS, AND PROGRAM
Docket Nu	mber	SYP328091US01
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is directed to	<b>)</b> :	United States application or PCT international application number  PCT/JP2019/017711 filed on25 April 2019
The above-i	dentified ap	application was made or authorized to be made by me.
I believe tha	t I am the o	original inventor or an original joint inventor of a claimed invention in the application.
•	_	that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine t more than five (5) years, or both.
W	HEREAS,	Sony Corporation
		as "ASSIGNEE") having a place of business at:
desires to a application;	cquire the	e entire right, title and interest in said invention and the above-identified United States patent
acknowledg identified U and reissues in countries	ed, I hereb nited State , extension foreign to	EFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby by assign to the ASSIGNEE, the entire right, title and interest in said invention and in the above-es patent application and in all divisions, continuations and continuations-in-part of said application, and renewals of Letters Patent granted thereon, and in all corresponding patent applications filed to the United States ("foreign countries") and corresponding international patent applications, and in ing on any such patent applications in the United States and foreign countries;
own name	and the rig	gn to the ASSIGNEE the right to file patent applications in foreign countries on said invention in its ght to claim priority to the above-identified United States patent application under the terms of the tion and any other relevant treaties;
foreign cou interest in	ntries to is and to the	norize and request the United States Patent & Trademark Office and officials in patent offices in ssue any and all of said Letters Patent to the ASSIGNEE as the assignee of my entire right, title and he same, for the sole use and behoof of the ASSIGNEE, its successors, assigns, and legal full end of the term for which said Letters Patent may be granted; and
Further, I agree that, without further consideration, I will communicate to the ASSIGNEE any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, continuation-in-part, substitute, renewal and reissue applications, execute all necessary assignment papers to cause said Letters Patent to be issued to the ASSIGNEE, make all rightful oaths, and, perform all lawful acts to aid the ASSIGNEE, its successors and assigns, to obtain and enforce Letters Patent for said invention in the United States and foreign countries.		
I FCAT N	ANG OF	INIT (ENITOR
LEGAL N	AME OF	INVENTOR
Inventor:	SHUICHIRO	O NISHIGORI Date: 2020/11/10
Signature:	/Shuichiro N	Nishigori/

Title of Invention	ENCODING APPARATUS, ENCODING METHOD, DECODING APPARATUS, DECODING METHOD, TRANSMISSION SYSTEM, RECEIVING APPARATUS, AND PROGRAM
Docket Number	SYP328091US01
As the below named i	nventor, I hereby declare that:
This declaration	The attached application, or
is directed to:	United States application or PCT international application number  PCT/JP2019/017711 filed on25 April 2019
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.
	that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine t more than five (5) years, or both.
WHEREAS,	Sony Corporation
hereinafter referred to 1-7-1 Konan, Minato-k	as "ASSIGNEE") having a place of business at:
desires to acquire the application;	e entire right, title and interest in said invention and the above-identified United States patent
acknowledged, I here identified United Stat and reissues, extension in countries foreign t	EFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby by assign to the ASSIGNEE, the entire right, title and interest in said invention and in the above-es patent application and in all divisions, continuations and continuations-in-part of said application, and renewals of Letters Patent granted thereon, and in all corresponding patent applications filed to the United States ("foreign countries") and corresponding international patent applications, and in ing on any such patent applications in the United States and foreign countries;
own name and the ri	on to the ASSIGNEE the right to file patent applications in foreign countries on said invention in its ght to claim priority to the above-identified United States patent application under the terms of the ion and any other relevant treaties;
foreign countries to interest in and to	norize and request the United States Patent & Trademark Office and officials in patent offices in ssue any and all of said Letters Patent to the ASSIGNEE as the assignee of my entire right, title and he same, for the sole use and behoof of the ASSIGNEE, its successors, assigns, and legal full end of the term for which said Letters Patent may be granted; and
respecting said inven- continuation-in-part, Letters Patent to be is	the that, without further consideration, I will communicate to the ASSIGNEE any facts known to me ion, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause said sued to the ASSIGNEE, make all rightful oaths, and, perform all lawful acts to aid the ASSIGNEE, gns, to obtain and enforce Letters Patent for said invention in the United States and foreign countries.
LEGAL NAME OF	INVENTOR
T	<b>D</b> .
Inventor: hirofumi ta	reua Date. 2020/11/11
Signature: /hirofumi ta	keda/

Title of Invention	ENCODING APPARATUS, ENCODING METHOD, DECODING APPARATUS, DECODING METHOD. TRANSMISSION SYSTEM, RECEIVING APPARATUS, AND PROGRAM	
Docket Number	SYP328091US01	
	iventor, I hereby declare that:	
This declaration	The attached application, or	
is directed to:	United States application or PCT international application number PCT/JP2019/017711 filed on 25 April 2019	
The above-identified a	pplication 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.	
I hereby acknowledge or imprisonment of nor	that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine tmore than five (5) years, or both	
WHEREAS,	Sony Corporation	
hereinafter referred to a 1-7-1 Konan, Minato-ku	as "ASSIGNEE") having a place of business at: , Tokyo,Japan	
desires to acquire the application;	entire right, title and interest in said invention and the above-identified United States patent	
NOW. THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I hereby assign to the ASSIGNEE, the entire right, title and interest in said invention and in the above-identified United States patent application and in all divisions, continuations and continuations-in-part of said application, and reissues, extensions and renewals of Letters Patent granted thereon, and in all corresponding patent applications filed in countries foreign to the United States ("foreign countries") and corresponding international patent applications, and in all Letters Patents issuing on any such patent applications in the United States and foreign countries;		
I hereby assign to the ASSIGNEE the right to file patent applications in foreign countries on said invention in its own name and the right to claim priority to the above-identified United States patent application under the terms of the International Convention and any other relevant treaties;		
I hereby authorize and request the United States Patent & Trademark Office and officials in patent offices in foreign countries to issue any and all of said Letters Patent to the ASSIGNEE as the assignee of my entire right, title and interest in and to the same, for the sole use and behoof of the ASSIGNEE, its successors, assigns, and legal representatives, to the full end of the term for which said Letters Patent may be granted; and		
Further, I agree that, without further consideration, I will communicate to the ASSIGNEE any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, continuation-in-part, substitute, renewal and reissue applications, execute all necessary assignment papers to cause said Letters Patent to be issued to the ASSIGNEE, make all rightful oaths, and, perform all lawful acts to aid the ASSIGNEE, its successors and assigns, to obtain and enforce Letters Patent for said invention in the United States and foreign countries.		
LEGAL NAME OF	INVENTOR	
Inventor: JUN MATS	UMOTO Date: December 23, 2020	
Signature:Matsumeto		

PATENT REEL: 056804 FRAME: 0908

**RECORDED: 07/09/2021**