PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT5931814

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
XIAODONG XU	10/11/2019
MENGYING SUN	10/11/2019
SHIQING ZHANG	10/11/2019
WENBO ZHANG	12/23/2019

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:	16634583

CORRESPONDENCE DATA

Fax Number:

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: 5713766333

Email: anaquadocketing@Xsensus.com

Correspondent Name: XSENSUS LLP

200 DAINGERFIELD ROAD Address Line 1:

Address Line 2: SUITE 201

Address Line 4: ALEXANDRIA, VIRGINIA 22314

ATTORNEY DOCKET NUMBER:	13854US01
NAME OF SUBMITTER:	TIERNEY FARRELL
SIGNATURE:	/Tierney Farrell/
DATE SIGNED:	01/28/2020

Total Attachments: 4

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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	
As the below named inventor, I hereby declare that:	
This declaration [] The attached application, or	
	rnational application number PCT/CN2018/103738
The above-identified application was made or authorized to	o 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	
(hereinafter referred to as "ASSIGNEE") having places of 0075, is desirous of acquiring the entire right, title and i Patent that may be granted therefore in the United States countries;	interest in and to said invention and in and to any Loners.
NOW. THEREFORE, for good, valuable, and ad- acknowledged, I, by these presents do sell, assign and trar the said invention in the United States and its territorial pro- to claim priority under the terms of the International C Arrangements from the aforesaid application) and the en Patent which may be granted therefor in the United States countries and in and to any and all divisions, reissues, cont	ossessions and in all foreign countries (including the right convention and other relevant International Treaties and titre right, title and interest in and to any and all Letters and its territorial possessions and in any and all foreign
i hereby authorize and request the Patent Office Offici any and all foreign countries to issue any and all of said assignee of my entire right, title and interest in and to the successors and assigns, to the full end of the term for whice as the same would have been held by me had this Assignment.	same, for the sole use and behoof of said ASSIGNEE, its
Further, I agree that I will communicate to said AS respecting said invention, and testify in any legal procontinuation, substitute, renewal and reissue applications, all of said Letters Patent to be issued to said ASSIGNE possible to aid said ASSIGNEE, its successors and assigns, in the United States and its territorial possessions and in an	execute all necessary assignment papers to cause any and E, make all rightful oaths, and, generally do everything to obtain and enforce proper protection for said insention.
	ade in this declaration is punishable under 18115 C 1001
LEGAL NAME OF INVENTOR	
Inventar: Xisodong XI)	Date: <u>Dt. 11, 2014</u>
Signature: Nisodong XII	

XSENSUS LLP ATTORNEYS AT LAW 200 DAINGERFIELD ROAD, SUITE 201 Alexandria, VA 22314

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Title of Invention	
As the below named inventor, I hereby declare that:	
This declaration The attached application, or	
	T international application number PCT/CN2018/103738
The above-identified application was made or author	rized to be made by me.
	I joint inventor of a claimed invention in the application.
WHEREAS, Sony Corporation	
1012 is destrous of acquiring the entire right title	ces of business at: 1-7-1, Konan, Minato-ku, Tokyo, Japan 108- and interest in and to said invention and in and to any Letters States and its territorial possessions and in any and all foreign
acknowledged, I, by these presents do sell, assign as the said invention in the United States and its territe to claim priority under the terms of the Internation Arrangements from the aforesaid application) and	ad adequate consideration, the receipt of which is hereby and transfer unto said ASSIGNEE, the full and exclusive right to utility to the said and in all foreign countries (including the right mal Convention and other relevant International Treaties and the entire right, title and interest in and to any and all Letters. States and its territorial possessions and in any and all foreign continuations, substitutions and renewals thereof.
I hereby authorize and request the Patent Office any and all foreign countries to issue any and all o assignee of my entire right, title and interest in and i	Officials in the United States and its territorial possessions and f said Letters Patent, when granted, to said ASSIGNEE as the to the same, for the sole use and behoof of said ASSIGNEE, its thick said Letters Patent may be granted as falls and autisals.
Further, I agree that I will communicate to sa respecting said invention, and testify in any lega continuation, substitute, renewal and reissue applicat all of said Letters Patem to be issued to said ASS	id ASSIGNEE or its representatives any facts known to me if proceeding, sign all lawful papers, execute all divisional, tions, execute all necessary assignment papers to cause any and IGNEE, make all rightful oaths, and, generally do everything signs, to physical and enforce process proceeding for and in
	ent made in this declaration is numberable under 19 11 C C 1001
LEGAL NAME OF INVENTOR	
Inventor: Mongying SUN	Date: Ook 11, 2018
Signature: <u>Merský) A</u> (UN	

XSENSUS LLP ATTORNEYS AT LAW 200 DAINGERFIELD ROAD, SUITE 201 Alexandria, VA 22314

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	
As the below named inventor, I hereby declare the	Rat.
This declaration [] The attached application, o	
is directed to:	PCT international application number PCT/CN2018/103738
The above-identified application was made or au	thorized to be made by me.
I believe that I am the original inventor or an original	ginal joint inventor of a claimed invention in the application.
WHEREAS, Sony Corporation	
<u>9075</u> , is desirous of acquiring the entire right,	places of husiness at: 1-7-1, Konan, Minato-ku, Tokyo, Japan 108- title and interest in and to said invention and in and to any Letters ited States and its territorial possessions and in any and all foreign
acknowledged. I, by these presents do sell, assig the said invention in the United States and its to to claim priority under the terms of the Inter- Arrangements from the aforesaid application) a Patent which may be granted therefor in the Un	and adequate consideration, the receipt of which is hereby an and transfer unto said ASSIGNEE, the full and exclusive right to reflorial possessions and in all foreign countries (including the right national Convention and other relevant International Treaties and and the entire right, title and interest in and to any and all Letters lited States and its territorial possessions and in any and all foreign sues, continuations, substitutions and renewals thereof.
any and all foreign countries to issue any and a assignce of my entire right, title and interest in a	fice Officials in the United States and its territorial possessions and all of said Letters Patent, when granted, to said ASSIGNEE as the und to the same, for the sole use and behoof of said ASSIGNEE, its n for which said Letters Patent may be granted, as fully and entirely assignment and sale not been made.
respecting said invention, and testify in any continuation, substitute, renewal and reissue app all of said Letters Patent to be issued to said	o said ASSIGNEE or its representatives any facts known to me legal proceeding, sign all lawful papers, execute all divisional, dications, execute all necessary assignment papers to cause any and ASSIGNEE, make all rightful oaths, and, generally do everything id assigns, to obtain and enforce proper protection for said invention and in any and all foreign countries.
I hereby acknowledge that any willful false st by fine or imprisonment of not more than five (5	atement made in this declaration is punishable under 18 U.S.C. 1001 years, or both.
LEGAL NAME OF INVENTOR	
Inventor: Shiqing ZHANG	Date: <u>Qcf. 30 9</u>
Signature: Mil Ging Thang	
Agamac. April 10	

XSENSUS LLP ATTORNEYS AT LAW 200 DAINGERFIELD ROAD, SUITE 201 Alexandria, VA 22314

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
As the below named inventor, I hereby declare that:
This declaration [] The attached application, or
is directed to: United States application or PCT international application number PCT/CN2018/103738 Ghed on 09/03/2018
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
(hereinafter referred to as "ASSIGNEE") having places of business at: 1-7-1, Konan, Minato-ku, Tokyo, Japan 108- 0075, is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;
NOW, THEREFORE, for good, valuable, and adequate consideration, the receipt of which is hereby acknowledged, I, by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries (including the right to claim priority under the terms of the International Convention and other relevant International Treaties and Arrangements from the aforesaid application) and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.
I hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this Assignment and sale not been made.
Further, I agree that I will communicate to said ASSIGNEE or its representatives any facts known to me respecting said invention, 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 any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.
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: Wenbo ZHANG Date: 27/12/2019.
Signature: Wanho Mary

XSENSUS LLP ATTORNEYS AT LAW 200 DAINGERFIELD ROAD, SUITE 201 Alexandria, VA 22314

RECORDED: 01/28/2020