505215666 12/03/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5262434

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
YOUPING ZHAO	09/17/2018
KANGYI LIU	09/21/2018
CHEN SUN	09/17/2018
XIN GUO	09/17/2018

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:	16202117

CORRESPONDENCE DATA

Fax Number: (571)376-6334

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: 571 376 6333

Email: XSENSUSPAT@XSENSUS.COM

Correspondent Name: XSENSUS, LLP

Address Line 1: 200 DAINGERFIELD ROAD

Address Line 2: SUITE 201

Address Line 4: ALEXANDRIA, VIRGINIA 22314

ATTORNEY DOCKET NUMBER:	10726US01
NAME OF SUBMITTER:	TIERNEY FARRELL
SIGNATURE:	/Tierney Farrell/
DATE SIGNED:	12/03/2018
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 4

PATENT REEL: 047653 FRAME: 0145

505215666

source=10726US01_DECLARATIONS#page1.tif source=10726US01_DECLARATIONS#page2.tif source=10726US01_DECLARATIONS#page3.tif source=10726US01_DECLARATIONS#page4.tif

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	ELECTRONIC DEVICE, WIRELESS COMMUNICATION METHOD AND COMPUTER READABLE MEDIUM
As the below name	d inventor, I hereby declare that:
This declaration $igtherapsi$	The attached application, or
	United States application or PCT international application number
The above-identifie	d application was made or authorized to be made by me.
I believe that I am t	he original inventor or an original joint inventor of a claimed invention in the application.
WHEREAS, Son	y Corporation
0075, is desirous of	I to as "ASSIGNEE") having places of business at: 1-7-1, Konan, Minato-ku, Tokyo, Japan 108- of acquiring the entire right, title and interest in and to said invention and in and to any Letters granted therefore in the United States and its territorial possessions and in any and all foreign
acknowledged, I, by the said invention i to claim priority u Arrangements from Patent which may be	FORE, for good, valuable, and adequate consideration, the receipt of which is hereby these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to a the United States and its territorial possessions and in all foreign countries (including the right noter the terms of the International Convention and other relevant International Treaties and the aforesaid application) and the entire right, title and interest in and to any and all Letters be granted therefor in the United States and its territorial possessions and in any and all foreign to any and all divisions, reissues, continuations, substitutions and renewals thereof.
any and all foreign assignee of my enti successors and assign	te and request the Patent Office Officials in the United States and its territorial possessions and countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the re right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its gas, to the full end of the term for which said Letters Patent may be granted, as fully and entirely have been held by me had this Assignment and sale not been made.
respecting said inv continuation, substi all of said Letters possible to aid said	that I will communicate to said ASSIGNEE or its representatives any facts known to me rention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, tute, renewal and reissue applications, execute all necessary assignment papers to cause any and Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything ASSIGNEE, its successors and assigns, to obtain and enforce proper protection for said invention and its territorial possessions and in any and all foreign countries.
	ledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 nent of not more than five (5) years, or both.
LEGAL NAME OF	INVENTOR
Inventor: Youpin	g ZHAO Date: Sept. 17, 2018
Signature:	
SENSUS LLP	4
TTORMEYS AT LAW	r · · · · · · · · · · · · · · · · · · ·

200 DAINGERFIELD ROAD, SUITE 201

Alexandria, VA 22314



Title of Invention	ELECTRONIC DEVICE, WIRELESS COMMUNICATION METHOD AND COMPUTER READABLE MEDIUM
As the below name	d inventor, I hereby declare that:
	The attached application, or
	United States application or PCT international application number
The above-identifie	d 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.
0075, is desirous Patent that may be countries;	d to as "ASSIGNEE") having places of business at: 1-7-1, Konan, Minato-ku, Tokyo, Japan 108- of acquiring the entire right, title and interest in and to said invention and in and to any Letters granted therefore in the United States and its territorial possessions and in any and all foreign
acknowledged, I, b the said invention to claim priority to Arrangements from Patent which may	FORE, for good, valuable, and adequate consideration, the receipt of which is hereby by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to in the United States and its territorial possessions and in all foreign countries (including the right under the terms of the International Convention and other relevant International Treaties and in the aforesaid application) and the entire right, title and interest in and to any and all Letters be granted therefor in the United States and its territorial possessions and in any and all foreign d to any and all divisions, reissues, continuations, substitutions and renewals thereof.
any and all foreign assignee of my ent successors and assi	ize and request the Patent Office Officials in the United States and its territorial possessions and a countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the ire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its gas, to the full end of the term for which said Letters Patent may be granted, as fully and entirely have been held by me had this Assignment and sale not been made.
respecting said in continuation, substall of said Letters possible to aid said in the United State	e that I will communicate to said ASSIGNEE or its representatives any facts known to me vention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, little, renewal and reissue applications, execute all necessary assignment papers to cause any and Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything ASSIGNEE, its successors and assigns, to obtain and enforce proper protection for said inventions and its territorial possessions and in any and all foreign countries.
I hereby acknow by fine or imprisor	viedge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 innent of not more than five (5) years, or both.
LEGAL NAME O	FINVENTOR Cart 7/ 2010
Inventor: Kangy	illu Date: Sept. 2/, 2018
Signature:	Kangyi Liu
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	ELECTRONIC DEVICE, WIRELESS COMMUNICATION METHOD AND COMPUTER READABLE
Invention	MEDIUM
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 filed on
The above-identified	dapplication was made or authorized to be made by me.
I believe that I am th	ne original inventor or an original joint inventor of a claimed invention in the application.
WHEREAS, Sony	
0075, is desirous o	to as "ASSIGNEE") having places of business at: 1-7-1, Konan, Minato-ku, Tokyo, Japan 108- f acquiring the entire right, title and interest in and to said invention and in and to any Letters granted therefore in the United States and its territorial possessions and in any and all foreign
acknowledged, I, by the said invention in to claim priority un Arrangements from Patent which may b	FORE, for good, valuable, and adequate consideration, the receipt of which is hereby these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the United States and its territorial possessions and in all foreign countries (including the right inder the terms of the International Convention and other relevant International Treaties and the aforesaid application) and the entire right, title and interest in and to any and all Letters be granted therefor in the United States and its territorial possessions and in any and all foreign to any and all divisions, reissues, continuations, substitutions and renewals thereof.
any and all foreign assignee of my entit successors and assig	to and request the Patent Office Officials in the United States and its territorial possessions and countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the re right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its us, to the full end of the term for which said Letters Patent may be granted, as fully and entirely have been held by me had this Assignment and sale not been made.
respecting said inv continuation, substit all of said Letters I possible to aid said	that I will communicate to said ASSIGNEE or its representatives any facts known to me ention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, into, renowal and reissue applications, execute all necessary assignment papers to cause any and Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything ASSIGNEE, its successors and assigns, to obtain and enforce proper protection for said invention and its territorial possessions and in any and all foreign countries.
I hereby acknowl by fine or imprisons	ledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 nent of not more than five (5) years, or both.
LEGAL NAME OF	INVENTOR
Inventor: Chen St	UN 1 Date: 27/8, 9, 12
Signature:	INVENTOR UN Date: 27/8, 9, 7/2

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

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 filled 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 (hereimafter referred to as "ASSIGNEE") having places of business at: 1-7-1, Konan, Minato-ku, Tokyo, Japan 108-2075., 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
This declaration The attached application, or is directed to: United States application or PCT international application number 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 (hereinafter referred to as "ASSIGNEE") having places of business at: 1-7-1, Konan, Minato-ku, Tokyo, Japan 108- 2075, 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
Is directed to: United States application or PCT international application number 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 (hereinafter referred to as "ASSIGNEE") having places of business at: 1-7-1, Konan, Minato-ku, Tokyo, Japan 108- 2075, 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
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- 2075, 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
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- 2075, 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
WHEREAS, Sony Corporation (hereinafter referred to as "ASSIGNEE") having places of business at: 1-7-1, Konan, Minato-ku, Tokyo, Japan 108- 10975, 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
(hereinafter referred to as "ASSIGNEE") having places of business at: 1-7-1, Konan, Minato-ku, Tokyo, Japan 108- 1075, 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 those 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
2075, 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
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: Xin GUO Date: Sep. 17-th, 2018
Signature: XAA () V
SENSUS LLP
TTORNEYS AT LAW
00 DAINGERFIELD ROAD, SUITE 201 lexandria, VA 22314

PATENT REEL: 047653 FRAME: 0150

RECORDED: 12/03/2018