504186925 01/19/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT4233600

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CHEN QIAN	12/27/2016
JINHUI CHEN	01/05/2017
ZHAOCHENG WANG	12/28/2016
CHEN SUN	12/27/2016

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:	15327585

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.

(703) 413-3000 Phone:

Email: cstankich@oblon.com

Correspondent Name: OBLON, ET AL.

Address Line 1: 1940 DUKE STREET

Address Line 4: ALEXANDRIA, VIRGINIA 22314

ATTORNEY DOCKET NUMBER:	480468US
NAME OF SUBMITTER:	CYNTHIA STANKICH
SIGNATURE:	/Cynthia Stankich/
DATE SIGNED:	01/19/2017

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 MULTIPLE ASSIGNEES

	APPARATUS AND METHOD FOR USE IN RADIO COMMUNICATION, ELECTRONIC DEVICE, AND METHOD THEREFOR
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/CN2015/076277 filed on 4/10/2015
The above-identified	f application was made or authorized to be made by me.
I believe that I am th	e original inventor or an original joint inventor of a claimed invention in the application.
WHEREAS, Sony	Corporation
respectively are desi	to as "ASSIGNEES") having places of business at: <u>1-7-1, Konan, Minato-ku, Tokyo, Japan</u> , nous of jointly acquiring interests in the entire right, title and interest in and to said invention and a Patent that may be granted therefore in the United States and its territorial possessions and in countries;
acknowledged, and said ASSIGNEES, if and in all foreign co other relevant Intern interest in and to at	ORE, in consideration of the sum of FTVE DOLLARS (\$5.00), the receipt whereof is hereby for other good and valuable consideration, I, by these presents do sell, assign and transfer unto be full and exclusive right to the said invention in the United States and its territorial possessions untries (including the right to claim priority under the terms of the International Convention and lational Treaties and Arrangements from the aforesaid application) and the entire right, title and my and all Letters Patent which may be granted therefor in the United States and its territorial any and all foreign countries and in and to any and all divisions, reissues, continuations, sewals thereof.
any and all foreign assignees of my en- their successors and	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 ASSIGNEES as the tire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEES, assigns, to the full end of the term for which said Letters Patent may be granted, as fully and would have been held by me had this Assignment and sale not been made.
respecting said invo continuation, substit all of said Letters P possible to aid said	that I will communicate to said ASSIGNEES or their representatives any facts known to me ention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, ute, renewal and reissue applications, execute all necessary assignment papers to cause any and ratent to be issued to said ASSIGNEES, make all rightful oaths, and, generally do everything ASSIGNEES, their successors and assigns, to obtain and enforce proper protection for said ted States and its territorial possessions and in any and all foreign countries.
I hereby acknowl by fine or imprisonn	edge 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 Qi	80 Date: 2016, 12, 27
Signature: ()	HEN Olan

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.
ATTORNEYS AT LAW
1940 DUKE STREET
ALEXANDRIA, VIRGINIA 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	Apparatus and methodor use in radio communication, electronic
Invention	if the way who was in the in the Mumanican (on, electronic
	device, and method therotor
As the below name	d inventor, I hereby declare that:
This declaration	The attached application, or
is directed to:	United States application or PCT international application number PCT/CN2ot5/076277 filed on 4/10/2015
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
invention and in a	d to as "ASSIGNEES") having places of business at: 1-7-1, Konan, Minato-ku. Tokyo, Japan vely are desirous of jointly acquiring interests in the entire right, title and interest in and to said not to any Letters Patent that may be granted therefore in the United States and its territorial any and all foreign countries;
acknowledged, and said ASSIGNEES, and in all foreign co other relevant Inter interest in and to a	FORH, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby for other good and valuable consideration, I, by these presents do sell, assign and transfer unto the full and exclusive right to the said invention in the United States and its territorial possessions puntries (including the right to claim priority under the terms of the International Convention and national Treaties and Arrangements from the aforesaid application) and the entire right, title and my and all Leiters Patent which may be granted therefor in the United States and its territorial any and all foreign countries and in and to any and all divisions, reissues, continuations, newals thereof.
any and all foreign assignees of my cu their successors and	ze 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 ASSIGNEES as the stire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEES, a assigns, to the full end of the term for which said Letters Patent may be granted, as fully and would have been held by me had this Assignment and sale not been made.
Further, I agree that I will communicate to said ASSIGNEES or their 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 ASSIGNEES, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEES, their 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 acknow 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: Jinhui C	HEN Date: 2017. [, 5
Signature (),	my light minimum

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, L.L.P. ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

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

Title of	APPARATUS AND ACTION DOD TOO TO THE COLUMN TWO THE COLU
Invention	APPARATUS AND METHOD FOR USE IN RADIO COMMUNICATION, ELECTRONIC DEVICE, AND METHOD THEREFOR
As the below name	ed inventor, I hereby declare that:
This declaration [The attached application, or
	United States application or PCT international application member PCT/CN2015/676277 filed on _4/10/2015
The above-identifi	od application was made or authorized to be made by me.
	the original inventor or an original joint inventor of a claimed invention in the application.
WHEREAS, Sun	y Corporation
SAMPLE ALLEGATION SECTIONS	d to as "ASSIGNEES") having places of business at: <u>1-7-1, Kopan, Minato-ku, Tokyo, Japan</u> sircus of jointly acquiring interests in the entire right, title and interest in and to said investion and as Patent that may be granted therefore in the United States and its territorial possessions and it countries;
said ASSIGNEES, and in all foreign co other relevant inter interest in and to a	FORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby for other good and valuable consideration, I, by these presents do sell, assign and transfer unto the full and exclusive right to the said invention in the United States and its territorial possessions numbries (including the right to claim priority under the terms of the International Convention and national Treaties and Arrangements from the aforesaid application) and the entire right, title and my and all Letters Patent which may be granted therefor in the United States and its territorial any and all foreign countries and in and to any and all divisions, reissues, continuations, newals thereof.
assignees of my er their successors and	ze 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 ASSIGNEES as the titre right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEES, I assigns, to the full end of the term for which said Letters Patent may be granted, as fully and would have been held by me had this Assignment and sole not been made.
Further, I agree respecting said inv continuation, substi- all of said Letters I possible to aid said	that I will communicate to said ASSIGNEES or their representatives any facts known to me ention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, tate, nenewal and reissue applications, execute all necessary assignment papers to cause any and fatent to be issued to said ASSIGNEES, make all rightful ouths, and, generally do everything I ASSIGNEES, their successors and assigns, to obtain and enforce proper protection for said ted States and its territorial possessions and in any and all foreign countries.
I hareby acknowl	ledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 next of not more than five (5) years, or both.
LEGAL NAME OF	INVENTOR
wentor: Zhaoche	™ Wang Date: 2016.12.28
Signature:	Way Thanky

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P. ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

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

Intention	APPARATUS AND METHOD FOR USE IN RADIO COMMUNICATION, ELECTRONIC DEVICE, AND METHOD THEREFOR
As the below name	d inventor, I hereby declare that:
This declaration [The attached application, or
is directed to:	United States application or PCT international application number PCT/CN2015/076277 filed on 4/10/2015
The above-identifie	ed 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.
	y Corporation
respectively are des	d to as "ASSIGNEES") having places of business at: 1-7-1 , Konan, Minato-ku, Tokyo, Japan, drous of jointly acquiring interests in the entire right, title and interest in and to said invention and its Patent that may be granted therefore in the United States and its territorial possessions and in countries;
acknowledged, and said ASSIGNEES, and in all foreign or other relevant Inter- interest in and to a	FORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby for other good and valuable consideration, I, by these presents do sell, assign and transfer unto the full and exclusive right to the said invention in the United States and its territorial possessions ountries (including the right to claim priority under the terms of the International Convention and national Treaties and Arrangements from the aforesaid application) and the entire right, title and my and all Letters Patent which may be granted therefor in the United States and its territorial any and all foreign countries and in and to any and all divisions, reissues, continuations, newals thereof.
any and all foreign assignees of my on their successors and	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 ASSIGNEES as the tire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEES, I assigns, to the full end of the term for which said Letters Patent may be granted, as fully and would have been held by me had this Assignment and sale not been made.
Purther, I agree that I will communicate to said ASSIGNEES or their 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 ASSIGNEES, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEES, their 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 acknow 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 Su	n Date: 206, 12, 27
Signature:	Alrea -

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ALEXANDRIA, VIRGINIA 22314

PATENT REEL: 041019 FRAME: 0662

RECORDED: 01/19/2017