504579532 10/04/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT4626243

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
XIN GUO	03/31/2017
STEFAN UHLICH	03/31/2017
YUHKI MITSUFUJI	08/24/2017

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:	15516368

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: moatley@oblon.com **Correspondent Name:** OBLON. ET AL. Address Line 1: 1940 DUKE STREET

Address Line 4: ALEXANDRIA, VIRGINIA 22314

ATTORNEY DOCKET NUMBER:	502692US
NAME OF SUBMITTER:	/MICHAEL PENNINGTON SEBASTIAN OATLEY/
SIGNATURE:	/Michael Pennington Sebastian Oatley/
DATE SIGNED: 10/04/2017	
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 3

source=502692US_Assignment#page1.tif source=502692US Assignment#page2.tif source=502692US_Assignment#page3.tif

> **PATENT REEL: 043780 FRAME: 0182** 504579532

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	Method, Apparatus and Sy	stem
xa vention		
As the below name	d inventor, I hereby declare that	
This declaration [S	The attached application, or	하다 그 사람들은 그리고 그리고 있다.
is directed to:		CT international application number
The above-identific	ed application was made or authors.	nga Managan nagalit ng kanalagan da ang mga kanalagan nagaran na nagaran nagaran na nagaran na nagaran na nagar
I believe that I am	the original inventor or an origin	al joint inventor of a claimed invention in the application.
(hereinafter referre Japan, is desirous	of acquiring the entire right, tit	laces of business at: 1-7-1-Konan, Minato-ku- Tokyo 108-0075, e and interest in and to said invention and in and to any Letters I States and its territorial possessions and in any and all foreign
sell, assign and tra and its territorial p International Conv and the entire right States and its territ	nsfer unto said ASSIGNEE, the ossessions and in all foreign cou ention and other relevant Internation and to any	nsideration which is hereby acknowledged. I, by these presents do full and exclusive right to the said invention in the United States ntries (including the right to claim priority under the terms of the ational Treaties and Arrangements from the aforesaid application) and all Letters Patent which may be granted therefor in the United all foreign countries and in and to any and all divisions, reissues,
any and all foreign assignee of my ent (his) successors ar	n countries to issue any and all ire right, title and interest in and id assigns, to the full end of the	e Officials in the United States and its territorial possessions and of said Letters Patent, when granted, to said ASSIGNEE as the I to the same, for the sole use and behoof of said ASSIGNEE, its term for which said Letters Patent may be granted, as fully and id this Assignment and sale not been made.
respecting said in continuation, substall of said Letters possible to aid said	vention, and testify in any le itute, renewal and reissue applic Patent to be issued to said AS d ASSIGNEE, its (his) success	I ASSIGNEE or its (his) representatives any facts known to me gat proceeding, sign all lawful papers, execute all divisional, ations, execute all necessary assignment papers to cause any and SIGNEE, make all rightful oaths, and, generally do everything ors and assigns, to obtain and enforce proper protection for said sessions and in any and all foreign countries.
I hereby acknow by fine or imprison	viedge that any willful false state ment of not more than five (5) y	ment made in this declaration is punishable under 18 U.S.C. 1001 ears, or both
LEGAL NAME O	FINVENTOR	
Inventor: Xin Gu	0	Date: 2017 03 31
Signature	Xin fax 郭昕	

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.

ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

> PATENT REEL: 043780 FRAME: 0183

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	Method, Apparatus and System
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
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.
(hereinafter referred Japan, is desirous of	y CORPORATION If to as "ASSIGNEE") having places of business at: 1-7-1-Konan, Minato-ku-Tokyo 108-0075, 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
sell, assign and tran and its territorial po- International Conve- and the entire right. States and its territorial	ORE, for good and valuable consideration which is hereby acknowledged, I, by these presents do usfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States assessions and in all foreign countries (including the right to claim priority under the terms of the ention and other relevant International Treaties and Arrangements from the aforesaid application), title and interest in and to any and all Letters Patent which may be granted therefor in the United orial possessions and in any and all foreign countries and in and to any and all divisions, reissues, litutions and renewals thereof.
any and all foreign assignee of my ent (his) successors an	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 ASSIGNEE as the regist, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its d 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 in continuation, substi all of said Letters possible to aid said	that I will communicate to said ASSIGNEE or its (his) representatives any facts known to me vention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, itute, 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 I ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said ited States and its territorial possessions and in any and all foreign countries.
I hereby acknow by fine or imprison	riedge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 ment of not more than five (5) years, or both.
LEGAL NAME OF	INVENTOR
Inventor: Stefan	Jhlich Date: March 31 2017
Signature:	Stefan Lilich

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

PATENT REEL: 043780 FRAME: 0184

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

Invention Method, Apparatus and System 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		
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 108-0075, Japan, 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 and valuable consideration 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 (his) 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 (his) 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 (his) 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: Yuhki Mitsufuji Date: クルテルタナースター、インタン		
Signature: Y. Mex Mitsukizi		

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

PATENT REEL: 043780 FRAME: 0185

RECORDED: 10/04/2017