505188614 11/13/2018 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5235383

		NEW ASSIGNMENT		
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT	
CONVEYING PARTY	DATA			
		Name	Execution Date	
NANXI LI			05/16/2018	
JINHUI CHEN			11/02/2018	
ZAIXUE WEI			05/16/2018	
XIN ZHANG			05/16/2018	
RECEIVING PARTY	ΟΑΤΑ			
Name:	SONY	SONY CORPORATION		
Street Address:	1-7-1,	1-7-1, KONAN, MINATO-KU		
City:	ΤΟΚΥ	D		
State/Country:	JAPAN	JAPAN		
Postal Code:	108-00	108-0075		
Application Number:		15561557		
Application Number:		15561557		
CORRESPONDENCE	DATA	(571)376-6334		
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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				
is directed to: United States application or PCT international application number <u>PCT/CN2016/077360</u> filed on <u>March 25, 2016</u>				
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 "ASSIGNEES") having places of business at: <u>1-7-1</u> , Konan, Minato-ku, Tokyo, Japan <u>108-0075</u> , respectively are desirous of jointly acquiring interests in 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, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I, by these presents do sell, assign and transfer unto said ASSIGNEES, 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 ASSIGNEES as the assignees of my entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEES, their 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 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 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: Nanxi LI Date: May 16.2018				
Inventor: <u>Nanxi LI</u> Signature: <u>Nanxi Li</u>				

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, L.L.P. ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314 PATENT REEL: 047489 FRAME: 0468

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				
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The above-identified a	pplication was made or authorized to be made by me.			
I believe that I am the a	original inventor or an original joint inventor of a claimed invention in the application.			
WHEREAS, Sony C	orporation			
<u>108-0075</u> , respectively invention and in and i	as "ASSIGNEES") having places of business at: <u>1-7-1, Konan, Minato-ku, Tokyo, Japan</u> y are desirous of jointly acquiring interests in the entire right, title and interest in and to said to any Letters Patent that may be granted therefore in the United States and its territorial and all foreign countries;			
acknowledged, and for said ASSIGNEES, the and in all foreign count other relevant Internati interest in and to any	tE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby other good and valuable consideration, I, by these presents do sell, assign and transfer unto full and exclusive right to the said invention in the United States and its territorial possessions tries (including the right to claim priority under the terms of the International Convention and onal Treaties and Arrangements from the aforesaid application) and the entire right, title and and all Letters Patent which may be granted therefor in the United States and its territorial sy and all foreign countries and in and to any and all divisions, reissues, continuations, rais thereof.			
any and all foreign cou assignees of my entire their successors and as	and request the Patent Office Officials in the United States and its territorial possessions and antries to issue any and all of said Letters Patent, when granted, to said ASSIGNEES as the right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEES, signs, to the full end of the term for which said Letters Patent may be granted, as fully and suld have been held by me had this Assignment and sale not been made.			
continuation, substitute	If I will communicate to said ASSIGNEES or their representatives any facts known to me ion, and testify in any legal proceeding, sign all lawful papers, execute all divisional, , renewal and reissue applications, execute all necessary assignment papers to cause any and ant to be issued to said ASSIGNEES, make all rightful oaths, and, generally do everything			

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.

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.

Chen

indui.

LEGAL NAME OF INVENTOR

Signature:

_____ Date: Nov. 2nd, 2018.

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

> PATENT REEL: 047489 FRAME: 0469

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: I United States application or PCT international application number <u>PCT/CN2016/077360</u> filed on <u>March 25, 2016</u>				
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 "ASSIGNEES") having places of business at: <u>1-7-1</u> , Konan, Minato-ku, Tokyo, Japan <u>108-0075</u> , respectively are desirous of jointly acquiring interests in 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, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I, by these presents do sell, assign and transfer unto said ASSIGNEES, 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 ASSIGNEES as the assignees of my entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEES, their 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 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 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: Zaixue WEI Date: May 16, 2018				
Signature: Znixue Wei				

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, L.L.P. ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314 PATENT REEL: 047489 FRAME: 0470

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: I United States application or PCT international application number <u>PCT/CN2016/077360</u> filed on <u>March 25, 2016</u>
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.
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(hereinafter referred to as "ASSIGNEES") having places of business at: <u>1-7-1, Konan, Minato-ku, Tokyo, Japan</u> <u>108-0075</u> , respectively are desirous of jointly acquiring interests in 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;
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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 ZHANG Date: May 14. 2018
Signature: <u>Nin Shan S</u>
OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, L.L.P. ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

RECORDED: 11/13/2018

PATENT REEL: 047489 FRAME: 0471