#### 10/31/2017 504619260

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4665975

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
HIDEJI WAKABAYASHI	09/01/2017
BRIAN ALEXANDER MARTIN	07/11/2017
SHINICHIRO TSUDA	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:	15570794

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

Address Line 4: ALEXANDRIA, VIRGINIA 22314

ATTORNEY DOCKET NUMBER:	507682US
NAME OF SUBMITTER:	TERRY EVANS
SIGNATURE:	/Terry Evans/
DATE SIGNED:	10/31/2017

### **Total Attachments: 3**

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> **PATENT REEL: 043990 FRAME: 0373** 504619260

## 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	MOBILE COMMUNICATIONS SYSTEM RELAY NODE AND COMMUNICATION	
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 ap	
The above-identifie	d application was made or authorized to be made b	y me.
I believe that I am t	he original inventor or an original joint inventor of	a claimed invention in the application.
(hereinafter referred (JP), is desirous of a	IY CORPORATION  I to as "ASSIGNEE") having places of business a acquiring the entire right, title and interest in and to therefore in the United States and its territorial pos	said invention and in and to any Letters Patent
sell, assign and tran and its territorial po International Conve and the entire right, States and its territo	ORE, for good and valuable consideration which is osfer unto said ASSIGNEE, the full and exclusive a issessions and in all foreign countries (including the intion and other relevant International Treaties and title and interest in and to any and all Letters Pater in prossessions and in any and all foreign countric itutions and renewals thereof.	right to the said invention in the United States e right to claim priority under the terms of the Arrangements from the aforesaid application) at which may be granted therefor in the United
and all foreign cour of my entire right, successors and assign	te and request the Patent Office Officials in the Unit stries to issue any and all of said Letters Patent, wh title and interest in and to the same, for the sole gas, to the full end of the term for which said Lette have been held by me had this Assignment and sale	en granted, to said ASSIGNEE as the assignee use and behoof of said ASSIGNEE, its (his) as Patent may be granted, as fully and entirely
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.		
	ledge that any willful false statement made in this d nent of not more than five (5) years, or both.	lectaration is punishable under 18 U.S.C. 1001
LEGAL NAME OF	INVENTOR	21 25 27 110
Inventor: Hideji V	/AKABAYASHI	Date: 0   SEP 20 17}
Signature: Wil	lis Watcheryoni	

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

PATENT REEL: 043990 FRAME: 0374 I-15-038-US-PCT

# 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 MOBILE COMMUNICATIONS SYSTEM, METHODS, CONTROLLER, RELAY NODE AND COMMUNICATIONS TERMINAL		
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 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  (JP), 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: Brian Alexander Martin Date: 11-7304-2017		
Signature: A D		

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ALEXANDRIA, VIRGINIA 22314

PATENT REEL: 043990 FRAME: 0375 I-15-038-US-PCT

## 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	MOBILE COMMUNICATIONS SYSTEM, METHODS, CONTROLLER, RELAY NODE AND COMMUNICATIONS TERMINAL	
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 filed on	
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 referres	NY CORPORATION  If to as "ASSIGNEE") having places of business at: 1-7-1 Konan, Minato-ku, Tokyo 108-0075 requiring the entire right, title and interest in and to said invention and in and to any Letters Patent therefore in the United States and its territorial possessions and in any and all foreign countries;	
sell, assign and tran and its territorial po International Conve and the entire right, States and its territo	ORE, for good and valuable consideration which is hereby acknowledged, I, by these presents do isfer 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 intion 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, itutions and renewals thereof.	
and all foreign cour of my entire right, successors and assign	the and request the Patent Office Officials in the United States and its territorial possessions and any attrics to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) 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.	
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.		
	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: Shinichi	TO TSUDA Date: Aug. 24. 2017	
Signature:	TO TSUDA Date: Aup. 24. 2017	

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PATENT REEL: 043990 FRAME: 0376

**RECORDED: 10/31/2017**