#### 502248414 02/28/2013

#### PATENT ASSIGNMENT

### Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Kiyoshi TOSHIMITSU	02/12/2013
Akira IRUBE	02/07/2013
Mitsuru ONODERA	02/13/2013
Toshiki MIYASAKA	02/12/2013
Yoshinari KUMAKI	02/13/2013
Tomoya HORIGUCHI	02/13/2013
Hirotsugu KAJIHARA	02/13/2013
Ichiro SETO	02/13/2013

#### **RECEIVING PARTY DATA**

Name:	KABUSHIKI KAISHA TOSHIBA	
Street Address:	1-1, Shibaura 1-Chome	
Internal Address:	Minato-ku	
City:	Tokyo	
State/Country:	JAPAN	

#### PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	13781104	

#### **CORRESPONDENCE DATA**

**Fax Number**: 2123195101

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**PATENT** 

REEL: 029898 FRAME: 0704

JP \$40.00 13/81104

502248414

ATTORNEY DOCKET NUMBER:	13172	
NAME OF SUBMITTER:	Ryan Levinsohn	
	This document serves as an Oath/Declaration (37 CFR 1.63).	
Total Attachments: 8 source=13172_declaration_assignment#page1.tif source=13172_declaration_assignment#page2.tif source=13172_declaration_assignment#page3.tif source=13172_declaration_assignment#page4.tif source=13172_declaration_assignment#page5.tif source=13172_declaration_assignment#page6.tif source=13172_declaration_assignment#page7.tif source=13172_declaration_assignment#page8.tif		

PATENT REEL: 029898 FRAME: 0705

## Combined Declaration and Assignment for Utility or Design Application Title of WIRELESS COMMUNICATION DEVICE AND WIRELESS COMMUNICATION SYSTEM Invention As the below named inventor, I hereby declare that: [/] The attached application, or This declaration 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. In consideration of value received, I sell and assign to KABUSHIKI KAISHA TOSHIBA , having a business address at 1-1, Shibaura 1-Chome, Minato-Ku, Tokyo, Japan, its successors, assigns or nominees, hereinafter referred to as "Assignee", my entire right, title and interest in and to said invention, and in and to all applications for patent and patents for said invention, in all countries of the world, including all divisions, reissues, continuations, substitutions and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of intellectual property, including rights of priority, resulting from the filing of any of said applications. I authorize said Assignee to file and prosecute an application or applications for patent for said invention as the applicant, and I request any official whose duty it is to issue patents, to issue any patent on said invention to said Assignee. I agree that on request and without further consideration, but at the expense of said Assignee, I will communicate to said Assignee or its representatives all facts known to me respecting said invention and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee to obtain and enforce proper patent protection for said invention in all 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

Holtz, Holtz, Goodman & Chick PC 220 Fifth Avenue, 16th Floor, New York, NY 10001-7708 Tel. (212) 319-4900 Fax. (212) 319-5101

Signature

Kiyoshi TOSHIMITSU

Inventor (printed name)

PATENT REEL: 029898 FRAME: 0706

Feb. 12, 2013

### Combined Declaration and Assignment for Utility or Design Application Title of WIRELESS COMMUNICATION DEVICE AND WIRELESS COMMUNICATION SYSTEM Invention As the below named inventor, I hereby declare that: This declaration IV 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. In consideration of value received, I sell and assign to KABUSHIKI KAISHA TOSHIBA, having a business address at 1-1, Shibaura 1-Chome, Minato-Ku, Tokyo, Japan, its successors, assigns or nominees, hereinafter referred to as "Assignee", my entire right, title and interest in and to said invention, and in and to all applications for patent and patents for said invention, in all countries of the world, including all divisions, reissues, continuations, substitutions and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of intellectual property, including rights of priority, resulting from the filing of any of said applications. I authorize said Assignee to file and prosecute an application or applications for patent for said invention as the applicant, and I request any official whose duty it is to issue patents, to issue any patent on said invention to said Assignee. I agree that on request and without further consideration, but at the expense of said Assignee, I will communicate to said Assignee or its representatives all facts known to me respecting said invention and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee to obtain and enforce proper patent protection for said invention in all 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

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Signature

Akira IRUBE

Inventor (printed name)

PATENT REEL: 029898 FRAME: 0707

# Combined Declaration and Assignment for Utility or Design Application

Title of Invention	WIRELESS COMM	UNICATION DEVICE AND WIRELESS CO	MMUNICATION SYSTEM	
As the below	As the below named inventor, I hereby declare that:			
This declara		attached application, or		
		ted States application or PCT internati	• •	
The above-i	dentified applicatio	was made or authorized to be made t	py me.	
I believe tha application.	t I am the original i	ventor or an original joint inventor of a	claimed invention in the	
address at 1-1, Shibaura 1-Chome, Minato-Ku, Tokyo, Japan, its successors, assigns or nominees, hereinafter referred to as "Assignee", my entire right, title and interest in and to said invention, and in and to all applications for patent and patents for said invention, in all countries of the world, including all divisions, reissues, continuations, substitutions and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of intellectual property, including rights of priority, resulting from the filing of any of said applications.				
I authorize said Assignee to file and prosecute an application or applications for patent for said invention as the applicant, and I request any official whose duty it is to issue patents, to issue any patent on said invention to said Assignee.				
I agree that on request and without further consideration, but at the expense of said Assignee, I will communicate to said Assignee or its representatives all facts known to me respecting said invention and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee to obtain and enforce proper patent protection for said invention in all 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				
Mitsu	ru ONODERA	Mitsuru Onodera	Feb. 13. 2013	
Inventor	(printed name)	Signature	Date	

Holtz, Holtz, Goodman & Chick PC 220 Fifth Avenue, 16th Floor, New York, NY 10001-7708 Tel. (212) 319-4900 Fax. (212) 319-5101

> PATENT REEL: 029898 FRAME: 0708

### Combined Declaration and Assignment for Utility or Design Application Title of WIRELESS COMMUNICATION DEVICE AND WIRELESS COMMUNICATION SYSTEM Invention As the below named inventor, I hereby declare that: This declaration [v] 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. In consideration of value received, I sell and assign to KABUSHIKI KAISHA TOSHIBA, having a business address at 1-1, Shibaura 1-Chome, Minato-Ku, Tokyo, Japan, its successors, assigns or nominees, hereinafter referred to as "Assignee", my entire right, title and interest in and to said invention, and in and to all applications for patent and patents for said invention, in all countries of the world, including all divisions, reissues, continuations, substitutions and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of intellectual property, including rights of priority, resulting from the filing of any of said applications. I authorize said Assignee to file and prosecute an application or applications for patent for said invention as the applicant, and I request any official whose duty it is to issue patents, to issue any patent on said invention to said Assignee. I agree that on request and without further consideration, but at the expense of said Assignee, I will communicate to said Assignee or its representatives all facts known to me respecting said invention and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee to obtain and enforce proper patent protection for said invention in all 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

Holtz, Holtz, Goodman & Chick PC 220 Fifth Avenue, 16th Floor, New York, NY 10001-7708 Tel. (212) 319-4900 Fax. (212) 319-5101

Toshiki Miyasaka

Signature

Toshiki MIYASAKA

Inventor (printed name)

PATENT REEL: 029898 FRAME: 0709

Feb. 12, 2013

Combined Declaration and Assignment for Utility or Design Application			
Title of Invention	WIRELESS COMMU	NICATION DEVICE AND WIRELESS CO	DMMUNICATION SYSTEM
As the belov	v named inventor, I h	ereby declare that:	
This declaration [/] The attached application, or is directed to:			
		ed States application or PCT internation	
The above-i	dentified application	was made or authorized to be made l	by me.
I believe tha application.	t I am the original inv	entor or an original joint inventor of a	claimed invention in the
address at 1-1, Shibaura 1-Chome, Minato-Ku, Tokyo, Japan, its successors, assigns or nominees, hereinafter referred to as "Assignee", my entire right, title and interest in and to said invention, and in and to all applications for patent and patents for said invention, in all countries of the world, including all divisions, reissues, continuations, substitutions and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of intellectual property, including rights of priority, resulting from the filling of any of said applications.  I authorize said Assignee to file and prosecute an application or applications for patent for said invention as the applicant, and I request any official whose duty it is to issue patents, to issue any patent on said invention to said Assignee.			
I agree that on request and without further consideration, but at the expense of said Assignee, I will communicate to said Assignee or its representatives all facts known to me respecting said invention and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee to obtain and enforce proper patent protection for said invention in all countries.			
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			
Yoshir	nari KUMAKI	Yashinori Kunaki	Feb. 13. 20/3
Inventor	(printed name)	Signature	Date

Holtz, Holtz, Goodman & Chick PC 220 Fifth Avenue, 16th Floor, New York, NY 10001-7708 Tel. (212) 319-4900 Fax. (212) 319-5101

Signature

**PATENT REEL: 029898 FRAME: 0710** 

## Combined Declaration and Assignment for Utility or Design Application Title of WIRELESS COMMUNICATION DEVICE AND WIRELESS COMMUNICATION SYSTEM Invention As the below named inventor, I hereby declare that: This declaration [V] 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. In consideration of value received, I sell and assign to KABUSHIKI KAISHA TOSHIBA, having a business address at 1-1, Shibaura 1-Chome, Minato-Ku, Tokyo, Japan, its successors, assigns or nominees, hereinafter referred to as "Assignee", my entire right, title and interest in and to said invention, and in and to all applications for patent and patents for said invention, in all countries of the world, including all divisions, reissues, continuations, substitutions and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of intellectual property, including rights of priority, resulting from the filing of any of said applications. I authorize said Assignee to file and prosecute an application or applications for patent for said invention as the applicant, and I request any official whose duty it is to issue patents, to issue any patent on said invention to said Assignee. I agree that on request and without further consideration, but at the expense of said Assignee, I will communicate to said Assignee or its representatives all facts known to me respecting said invention and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee to obtain and enforce proper patent protection for said invention in all 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 Tomoya HORIGUCHI

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Signature

Inventor (printed name)

PATENT REEL: 029898 FRAME: 0711

Feb. 13, 2013

### Combined Declaration and Assignment for Utility or Design Application Title of WIRELESS COMMUNICATION DEVICE AND WIRELESS COMMUNICATION SYSTEM Invention As the below named inventor, I hereby declare that: This declaration IVI 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. In consideration of value received, I sell and assign to KABUSHIKI KAISHA TOSHIBA, having a business address at 1-1, Shibaura 1-Chome, Minato-Ku, Tokyo, Japan, its successors, assigns or nominees, hereinafter referred to as "Assignee", my entire right, title and interest in and to said invention, and in and to all applications for patent and patents for said invention, in all countries of the world, including all divisions, reissues, continuations, substitutions and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of intellectual property, including rights of priority, resulting from the filing of any of said applications. I authorize said Assignee to file and prosecute an application or applications for patent for said invention as the applicant, and I request any official whose duty it is to issue patents, to issue any patent on said invention to said Assignee. I agree that on request and without further consideration, but at the expense of said Assignee, I will communicate to said Assignee or its representatives all facts known to me respecting said invention and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee to obtain and enforce proper patent protection for said invention in all 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

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Signature

Historiga Kajihara

Hirotsugu KAJIHARA

Inventor (printed name)

PATENT REEL: 029898 FRAME: 0712

Feb. 13, 2013

### Combined Declaration and Assignment for Utility or Design Application Title of WIRELESS COMMUNICATION DEVICE AND WIRELESS COMMUNICATION SYSTEM Invention As the below named inventor, I hereby declare that: IVI The attached application, or This declaration 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. In consideration of value received, I sell and assign to KABUSHIKI KAISHA TOSHIBA, having a business address at 1-1, Shibaura 1-Chome, Minato-Ku, Tokyo, Japan, its successors, assigns or nominees, hereinafter referred to as "Assignee", my entire right, title and interest in and to said invention, and in and to all applications for patent and patents for said invention, in all countries of the world, including all divisions, reissues, continuations, substitutions and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of intellectual property, including rights of priority, resulting from the filing of any of said applications. I authorize said Assignee to file and prosecute an application or applications for patent for said invention as the applicant, and I request any official whose duty it is to issue patents, to issue any patent on said invention to said Assignee. I agree that on request and without further consideration, but at the expense of said Assignee, I will communicate to said Assignee or its representatives all facts known to me respecting said invention and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee to obtain and enforce proper patent protection for said invention in all 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 Ichiro SETO Inventor (printed name) Signature

Holtz, Holtz, Goodman & Chick PC 220 Fifth Avenue, 16th Floor, New York, NY 10001-7708 Tel. (212) 319-4900 Fax. (212) 319-5101

> PATENT REEL: 029898 FRAME: 0713

Date

RECORDED: 02/28/2013