PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5430295

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MOHAMED RATNI	03/01/2019
MASAYOSHI ABE	02/05/2019
OSAMU KOZAKAI	02/06/2019

RECEIVING PARTY DATA

Name:	SONY SEMICONDUCTOR SOLUTIONS CORPORATION
Street Address:	4-14-1 ASAHI-CHO,
Internal Address:	ATSUGI-SHI,
City:	KANAGAWA
State/Country:	JAPAN
Postal Code:	243-0014

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16358740

CORRESPONDENCE DATA

Fax Number:

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: (571) 376-6333

Email: anaquadocketing@Xsensus.com

Correspondent Name: XSENSUS LLP

Address Line 1: 200 DAINGERFIELD ROAD

Address Line 2: SUITE 201

Address Line 4: ALEXANDRIA, VIRGINIA 22314

NAME OF SUBMITTER: TIERNEY FARRELL /Tierney Farrell/	
SIGNATURE: /Tierney Farrell/	
1	
DATE SIGNED: 03/20/2019	
This document serves as an Oath/Decla	ration (37 CFR 1.63).

Total Attachments: 3

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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	Antenna
As the below	named inventor, I hereby declare that:
This declarati	The attached application, or
	United States application or PCT international application number
	filed on
The above-ide	ntified application was made or authorized to be made by me.
	am the original inventor or an original joint inventor of a claimed invention in the application.
	Sony Semiconductor Solutions Corporation , with offices at
******************	ahi-cho, Atsugi-shi, Kanagawa, 243-0014 JAPAN (hereinafter referred to as ASSIGNEE), is desirous of
	nterest in, to and under said invention, said application disclosing the invention and in, to and under any Letters Patent or similar n which may be granted therefor in the United States and in any and all foreign countries;
of which are it legal represent in and to any any and all pri Convention Readheres, and to United States	FORE, in consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency pereby acknowledged. I by these presents do hereby assign, sell and transfer unto said ASSIGNEE, its successors, assigns, and alives, the entire right, title and interest in said invention, said application, including any divisions and continuations thereof, and and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said invention, and in and to ority rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-American stating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America may other benefits accruing or to accrue to me with respect to the filing of applications for patents or securing of patents in the and countries foreign thereto, and I hereby authorize and request the Commissioner of Patents to issue said United States Letters ASSIGNEE, as the assignce of the whole right, title and interest thereto;
designee, as / remuneration,	agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEE or its ASSIGNEE or its successors, assigns and logal representatives may from time-to-time present to me and without further in order to perfect title in said invention, modifications, and improvements in said invention, applications and Letters Patent of ses and countries foreign thereto;
application for	agree to properly execute and deliver and without further remuneration, such necessary or desirable and lawful papers for foreign patents, for filing subdivisions of said application for patent, and or, for obtaining any reissue or reissues of any Letters hay be granted for my aforesaid invention, as said ASSIGNEE thereof shall hereafter require and prepare at its own expense;
application, sa	agree that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to me and will same in any interference or litigation related thereto;
And I hereby c this assignmen	ovenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with tand sale.
	wiedge that any willful faise statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of Ive (5) years, or both.
LEGAL NAMI	OF INVENTOR
Inventor:	Mohamed Ratni Date: O.1 March 2019
Signature:	

Attorney Docket No.: Sany Ref. No.:

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	Antenna	
As the below named inventor, I hereby declare that:		
This declaration		
United States application or PCT international application number		
	filed on	2
The above ide	entified 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 Semiconductor Solutions Corporation	, with offices at
4-14-1 A	sahi-cho, Atsugi-shi, Kanagawa, 243-0014 JAPAN	thereinafter referred to as ASSIGNEE), is desirous of
	interest in, to and under said invention, said application disclosing the invent on which may be granted therefor in the United States and in any and all forei	
of which are legal represent in and to any any and all pr Convention R adheres, and t United States	EFORE, in consideration of the sum of One Dollar (\$1.00), and other good at hereby acknowledged. I by these presents do hereby assign, sell and transfe statives, the entire right, title and interest in said invention, said application, in and all Letters Patent of the United States, and countries foreign thereton, which the said of convention rights under the International Convention for telating to Patents, Designs and Industrial Models, and any other internations or any other benefits accurating or to accurate to me with respect to the filling of and countries foreign thereto, and I hereby authorize and request the Commit ASSIGNEE, as the assignce of the whole right, title and interest thereto;	er unto said ASSIGNEE, its successors, assigns, and including any divisions and continuations thereof, and the may be granted for said invention, and in and to the Protection of Industrial Property, Inter-American al agreements to which the United States of America applications for patents or securing of patents in the
designee, as remuneration,	agree to execute all necessary or desirable and lawful future documents, in ASSIGNEE or its successors, assigns and legal representatives may from the order to perfect title in said invention, modifications, and improvements stes and countries foreign thereto;	m time-to-time present to me and without further
And I further agree to properly execute and deliver and without further remuneration, such necessary or desirable and lawful papers for application for foreign patents, for filing subdivisions of said application for patent, and or, for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid invention, as said ASSIGNEE thereof shall hereafter require and prepare at its own expense;		
And I further agree that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to me and will testify as to the same in any interference or litigation related thereto;		
And I hereby coverant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.		
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 NAM	IE OF INVENTOR	
Inventor:	Masayoshi Abe	Date: Feb/5/2019
Signature	Mart Abe	

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

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As the below	named inventor, I hereby declare that:	
This declaration		
	United States application or PCT international application number	
	filed on	
The above-id	entified 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 Semiconductor Solutions Corporation , with offices at	
4-14-1 A	sahi-cho, Atsugi-shi, Kanagawa, 243-0014 JAPAN (hereinafter referred to as ASSIGNEE), is desirous of	
	interest in, to and under said invention, said application disclosing the invention and in, to and under any Letters Patent or similar on which may be granted therefor in the United States and in any and all foreign countries;	
NOW THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I by these presents do hereby assign, sell and transfer unto said ASSIGNEE, its successors, assigns, and legal representatives, the entire right, title and interest in said invention, said application, including any divisions and continuations thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said invention, and in and to any and all priority rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and to any other benefits accruing or to accrue to me with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, and I hereby authorize and request the Commissioner of Patents to issue said United States Letters Patent to said ASSIGNEE, as the assignee of the whole right, title and interest thereto;		
designee, as remuneration	r agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEE or its ASSIGNEE or its successors, assigns and legal representatives may from time-to-time present to me and without further, in order to perfect title in said invention, modifications, and improvements in said invention, applications and Letters Patent of ates and countries foreign thereto;	
And I further agree to properly execute and deliver and without further remuneration, such necessary or desirable and lawful papers for application for foreign patents, for filing subdivisions of said application for patent, and or, for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid invention, as said ASSIGNEE thereof shall hereafter require and prepare at its own expense;		
And I further agree that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to me and will testify as to the same in any interference or litigation related thereto;		
And I hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.		
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:	Osamu Kozakai Date: Peb, 6. 2019	
Signature:	Osamu Kopskai	

PATENT REEL: 048643 FRAME: 0150

RECORDED: 03/20/2019