# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5523468

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
FRANCK GIRON	05/03/2019
FABIEN CARDINAUX	05/03/2019
THOMAS KEMP	05/03/2019
STEFAN UHLICH	05/03/2019
MARC FERRAS FONT	05/03/2019
ANDREAS SCHWAGER	05/03/2019
PATRICK PUTZOLU	04/11/2019

### **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:	16362692

### **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:** 5713766333

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

ATTORNEY DOCKET NUMBER:	12294US01
NAME OF SUBMITTER:	KELLY ELAM
SIGNATURE:	/Kelly Elam/
DATE SIGNED:	05/15/2019

# Total Attachments: 7 source=12294US01\_AssgsAsFiled#page1.tif source=12294US01\_AssgsAsFiled#page2.tif source=12294US01\_AssgsAsFiled#page3.tif source=12294US01\_AssgsAsFiled#page4.tif source=12294US01\_AssgsAsFiled#page5.tif source=12294US01\_AssgsAsFiled#page6.tif source=12294US01\_AssgsAsFiled#page7.tif

Title of Invention	ACOUSTIC METAMATER	IAL DEVICE, METHO	D AND COMPUTER PROGE
As the below name	d inventor, I hereby declare that:		
This declaration [	The attached application, or		
is directed to:	United States application or PC filed on March 25, 2019	T international application	1 number 16/362,692
The above-identifie	d application was made or autho	rized to be made by me.	
I believe that I am	he original inventor or an origina	I joint inventor of a claime	ed invention in the application.
WHEREAS, Son	y Corporation		
desirous of acquiri		est in and to said inventior	onan, Minato-ku, Tokyo 108-0075 n and in and to any Letters Patent I in any and all foreign countries;
I, by these presents in the United State under the terms of aforesaid application therefor in the Unit	do sell, assign and transfer unto se se and its territorial possessions a the International Convention and m) and the entire right, title and i	aid ASSIGNEE, the full are and in all foreign countries other relevant International are and all foreign and all foreigns and all foreigns and all foreigns.	ceipt of which is hereby acknowled nd exclusive right to the said invents (including the right to claim prical al Treaties and Arrangements from all Letters Patent which may be grational foreign countries and in and to any
and all foreign coun of my entire right, t and assigns, to the	ntries to issue any and all of said itle and interest in and to the san	Letters Patent, when grants ie, for the sole use and beh d Letters Patent may be gra	s and its territorial possessions and ed, to said ASSIGNEE as the assignoof of said ASSIGNEE, its successanted, as fully and entirely as the s
said invention, and substitute, renewal Patent to be issued ASSIGNEE, its suc	I testify in any legal proceedin and reissue applications, execute a to said ASSIGNEE, make all r	g, sign all lawful papers, ill necessary assignment pa ightful oaths, and, general I enforce proper protection	tives any facts known to me respect, execute all divisional, continual ipers to cause any and all of said Le lly do everything possible to aid for said invention in the United St
	ledge that any willful false stater nent of not more than five (5) ye		on is punishable under 18 U.S.C. I
LEGAL NAME OF	INVENTOR		***************************************
Inventor: Franck Gir	BO	Date	= 3.5.2019
Signature:	<i>M</i> /		
ENSUS LLP TORNEYS AT LAW 10 DAINGERFIELD R	OAD, SUITE 201		

Alexandria, VA 22314

<u></u>		
Title of Invention ACOUSTIC METAMATERIAL DEVICE, METHOD AND COMPUTER PROGRAM		
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 16/362,692 filed on March 25, 2019		
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, 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, valuable, and adequate consideration, the receipt of 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.		
Thereby 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 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 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 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: Fablen Cardinaux Date: 23/05/2019		
Signature:		

XSENSUS LLP ATTORNEYS AT LAW 200 DAINGERFIELD ROAD, SUITE 201 Alexandria, VA 22314

Title of					***************************************
Invention	ACOUSTIC METAMATERIAL DEVICE,	METHOD A	AND C	OMPUTE	R PROGRAM
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 filed on March 25, 2019	application m	imber	16/362,692	***************************************
The above-identific	d application was made or authorized to be mad	e by me.			
I believe that I am t	he original inventor or an original joint inventor	of a claimed i	nventio	n in the appl	ication.
WHEREAS, Sony	Corporation			**	
desirous of acquirir	I to as "ASSIGNEE") having places of business ig the entire right, title and interest in and to sai refore in the United States and its territorial poss	d invention as	id in at	id to any Le	iters Patent that
I, by these presents in the United States under the terms of t aforesaid applicatio therefor in the Unite	ORE, for good, valuable, and adequate considera do sell, assign and transfer unto said ASSIGNES and its territorial possessions and in all foreig the International Convention and other relevant In) and the entire right, title and interest in and to ed States and its territorial possessions and in anse, continuations, substitutions and renewals ther	i, the full and a countries (in ternational Tany and all Lyand all fore	exclusion Cluding reaties etters P	ve right to the g the right to and Arrange atent which	e said invention o claim priority ments from the may be granted
and all foreign coun of my entire right, the and assigns, to the f	te and request the Patent Office Officials in the Unitries to issue any and all of said Letters Patent, which and interest in and to the same, for the sole until end of the term for which said Letters Patent ld by me had this Assignment and sale not been	vhen granted, se and behoof may be grante	to said of said	ASSIGNEE ASSIGNEE	as the assignee
said invention, and substitute, renewal a Patent to be issued ASSIGNEE, its succ	hat I will communicate to said ASSIGNEE or its testify in any legal proceeding, sign all law and reissue applications, execute all necessary ass to said ASSIGNEE, make all rightful oaths, a ressors and assigns, to obtain and enforce proper ssessions and in any and all foreign countries.	ful papers, ex ignment paper nd, generally	ecute a s to can do ever	all divisional se any and al rything possi	l, continuation, l of said Letters ible to aid said
I hereby acknowl by fine or imprisonn	ledge that any willful false statement made in thi nent of not more than five (5) years, or both.	s declaration i	s punis	hable under	18 U.S.C. 1001
LEGAL NAME OF	INVENTOR		14	3.8	
Inventor: Thomas Ke	emp / / /	Date:	3	Hay	2019
Signature:	1. Week		,,		
SENSUS LLP FTORNEYS AT LAW		, , ,	•••••		

XS AT 200 DAINGERFIELD ROAD, SUITE 201 Alexandria, VA 22314

Invention	ACOUSTIC METAMATERIAL DEVICE, METHOD AND COMPUTER PROGRAM
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 16/362,692 filed on March 25, 2019
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.
WHEREAS, Sony	Corporation
desirous of acquirir	1 to as "ASSIGNEE") having places of business at: 1-7-1-Konan, Minato-ku, Tokyo 108-0075, is ng the entire right, title and interest in and to said invention and in and to any Letters Patent that refore in the United States and its territorial possessions and in any and all foreign countries;
in the United States under the terms of t aforesaid application therefor in the United	ORE, for good, valuable, and adequate consideration, the receipt of which is hereby acknowledged, do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said inventions and its territorial possessions and in all foreign countries (including the right to claim priority he International Convention and other relevant International Treaties and Arrangements from the n) and the entire right, title and interest in and to any and all Letters Patent which may be granted and States and its territorial possessions and in any and all foreign countries and in and to any and sections, substitutions and renewals thereof.
and all loreign coun of my entire right, ti and assigns, to the f	te and request the Patent Office Officials in the United States and its territorial possessions and any stries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee itle and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its successors full end of the term for which said Letters Patent may be granted, as fully and entirely as the same lid by me had this Assignment and sale not been made.
said invention, and substitute, renewal a Patent to be issued ASSIGNEE, its succ	nat I will communicate to said ASSIGNEE or its representatives any facts known to me respecting testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, nd reissue applications, execute all necessary assignment papers to cause any and all of said Letters to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said pessors and assigns, to obtain and enforce proper protection for said invention in the United States are seed on any and all foreign countries.
I hereby acknowl by fine or imprisonn	edge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 tent of not more than five (5) years, or both.
LEGAL NAME OF	
Inventor: Stefan Uhli	th Date: May 3rd, 2019
Signature: 31	

XSENSUS LLP ATTORNEYS AT LAW 200 DAINGERFIELD ROAD, SUITE 201 Alexandria, VA 22314

Title of Invention	ACOUSTIC METAMATERIAL DEVICE, METHOD AND COMPUTER PROGRAM
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 16/362,692 filed on March 25, 2019
The above-identific	ed 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, Son	y Corporation
desirous of acquiri	d to as "ASSIGNEE") having places of business at: 1-7-1-Konan, Minato-ku, Tokyo 108-0075 , is ng the entire right, title and interest in and to said invention and in and to any Letters Patent that refore in the United States and its territorial possessions and in any and all foreign countries;
I, by these presents in the United State under the terms of aforesaid application therefor in the United	ORE, for good, valuable, and adequate consideration, the receipt of which is hereby acknowledged, do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention as and its territorial possessions and in all foreign countries (including the right to claim priority the International Convention and other relevant International Treaties and Arrangements from the m) and the entire right, title and interest in and to any and all Letters Patent which may be granted ed States and its territorial possessions and in any and all foreign countries and in and to any and es, continuations, substitutions and renewals thereof.
and all foreign cou of my entire right, and assigns, to the	ze and request the Patent Office Officials in the United States and its territorial possessions and any ntries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee ittle and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its successors full end of the term for which said Letters Patent may be granted, as fully and entirely as the same eld by me had this Assignment and sale not been made.
said invention, and substitute, renewal Patent to be issued ASSIGNEE, its suc	that I will communicate to said ASSIGNEE or its representatives any facts known to me respecting I testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, and reissue applications, execute all necessary assignment papers to cause any and all of said Letters to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said cessors and assigns, to obtain and enforce proper protection for said invention in the United States assessions and in any and all foreign countries.
I hereby acknow by fine or imprison	dedge 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: Marc Ferr	Date: 03 05 20/9
Signature:	
SENCIIS II D	

XSENSUS LLP ATTORNEYS AT LAW 200 DAINGERFIELD ROAD, SUITE 201 Alexandria, VA 22314

Invention	ACOUSTIC METAMATERIAL DEVICE, METHOD AND COMPUTER PROGRAM
As the below name	d inventor, I hereby declare that:
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The above-identifie	ed application was made or authorized to be made by me.
I believe that I am t	the original inventor or an original joint inventor of a claimed invention in the application.
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desirous of acquirir	d to as "ASSIGNEE") having places of business at: 1-7-1-Konan, Minato-ku, Tokyo 108-0075, is ag the entire right, title and interest in and to said invention and in and to any Letters Patent that refore in the United States and its territorial possessions and in any and all foreign countries;
I, by these presents in the United State under the terms of taforesaid applicatio therefor in the Unit	ORE, for good, valuable, and adequate consideration, the receipt of which is hereby acknowledged, do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention a and its territorial possessions and in all foreign countries (including the right to claim priority the International Convention and other relevant International Treaties and Arrangements from the on) and the entire right, title and interest in and to any and all Letters Patent which may be granted ed States and its territorial possessions and in any and all foreign countries and in and to any and es, continuations, substitutions and renewals thereof.
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I hereby acknow by fine or imprison	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: Andreas S	chwager Date: 7. May 2018
Signature:	

XSENSUS LLP ATTORNEYS AT LAW 200 DAINGERFIELD ROAD, SUITE 201 Alexandria, VA 22314

Title of	AMASSATIA SAPTASASATORIA DELLA
Invention	ACOUSTIC METAMATERIAL DEVICE, METHOD AND COMPUTER PROGRAM
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 16/362,692 filed on March 25,2019
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.
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desirous of acquirin	to as "ASSIGNEE") having places of business at: 1-7-1-Konan, Minato-ku, Tokyo 108-0075 is g the entire right, title and interest in and to said invention and in and to any Letters Patent that efore in the United States and its territorial possessions and in any and all foreign countries;
NOW, THEREP I, by these presents a in the United States under the terms of it aforesaid application therefor in the Unite	ORE, for good, valuable, and adequate consideration, the receipt of which is hereby acknowledged, to sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention and its territorial possessions and in all foreign countries (including the right to claim priority be international Convention and other relevant International Treaties and Arrangements from the t) and the entire right, title and interest in and to any and all Letters Patent which may be granted d States and its territorial possessions and in any and all foreign countries and in and to any and s, continuations, substitutions and renewals thereof.
and an ioreign com of my entire right, ti and assigns, to the fi	o and request the Patent Office Officials in the United States and its territorial possessions and any tries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee the and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its successors all end of the term for which said Letters Patent may be granted, as fully and entirely as the same d by me had this Assignment and sale not been made.
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I hereby acknowle by fine or imprisonm	edge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 ent of not more than five (5) years, or both.
LEGAL NAME OF	NVENTOR
nventor: Patrick Putz	olu 1, Date: 1/1, 04.7019
Signature:	- 1/2 - 1

XSENSUS LLP ATTORNEYS AT LAW 200 DAINGERFIELD ROAD, SUITE 201 Alexandria, VA 22314

> PATENT REEL: 049180 FRAME: 0871

**RECORDED: 05/15/2019**