

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5988842

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ATSUSHI YAMADA	11/29/2019
KYOHEI YOSHIMITSU	12/03/2019
HIROYUKI MITA	12/03/2019
SACHIO IIDA	11/29/2019
SEIJI KOBAYASHI	12/09/2019
TOSHIYUKI HIROI	12/04/2019

RECEIVING PARTY DATA

Name:	SONY CORPORATION
Street Address:	1-7-1 KONAN
Internal Address:	MINATO-KU
City:	TOKYO
State/Country:	JAPAN
Postal Code:	108-0075
Name:	SONY SEMICONDUCTOR SOLUTIONS CORPORATION
Street Address:	4-14-1 ASAHI-CHO, ATSUGI-SHI
City:	KANAGAWA
State/Country:	JAPAN

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16616608

CORRESPONDENCE DATA

Fax Number: (303)863-0223

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: 303-863-9700

Email: sony@sheridanross.com

Correspondent Name: SHERIDAN ROSS P.C.

Address Line 1: 1560 BROADWAY

Address Line 2: SUITE 1200

Address Line 4: DENVER, COLORADO 80202-5141

PATENT

ATTORNEY DOCKET NUMBER:	6810-1251 (KRC)
NAME OF SUBMITTER:	KRISTEN R. COKAS
SIGNATURE:	/Kristen R. Cokas/
DATE SIGNED:	02/28/2020
Total Attachments: 6 source=Executed_Assignment-Declarations_for-recordation#page1.tif source=Executed_Assignment-Declarations_for-recordation#page2.tif source=Executed_Assignment-Declarations_for-recordation#page3.tif source=Executed_Assignment-Declarations_for-recordation#page4.tif source=Executed_Assignment-Declarations_for-recordation#page5.tif source=Executed_Assignment-Declarations_for-recordation#page6.tif	

**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN
APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR MULTIPLE ASSIGNEES**

Title of Invention	SENSOR DEVICE, WATER AMOUNT MEASUREMENT DEVICE, WATER AMOUNT MEASUREMENT METHOD, INFORMATION PROCESSING DEVICE, AND INFORMATION PROCESSING METHOD
-----------------------	--

As the below named inventor, I hereby declare that:

This declaration
is directed to: ☐ The attached application, or

☒ United States application or PCT international application number PCT/JP2018/016007
filed on 2018/04/18

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.

SONY CORPORATION
WHEREAS, **SONY SEMICONDUCTOR SOLUTIONS CORPORATION**, with offices at
1-7-1 KONAN, MINATO-KU, TOKYO, 108-0075, JAPAN,
4-14-1 Asahi-cho, Aisugi-shi, Kanagawa, Japan
respectively (hereinafter referred to as ASSIGNEES), are desirous of jointly acquiring all interest in, to and under said invention, said application disclosing the invention and in, to and under any Letters Patent or similar legal protection 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 ASSIGNEES, their 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 ASSIGNEES, as the assignees of the whole right, title and interest thereto;

And I further agree to execute all necessary or desirable and lawful future documents, including assignments in favor of said ASSIGNEES or their designees(s), as ASSIGNEES or their successors, assigns and legal representatives may from time-to-time present to me and without further remuneration, in order to perfect title in said invention, modifications, and improvements in said invention, applications and Letters Patent of the United States 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 ASSIGNEES thereof shall hereafter require and prepare at their own expense;

And I further agree that ASSIGNEES will, upon their 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: ATSUSHI YAMADA Date: November 29, 2018

Signature: Atsushi Yamada

**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN
APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR MULTIPLE ASSIGNEES**

Title of
Invention

**SENSOR DEVICE, WATER AMOUNT MEASUREMENT DEVICE, WATER AMOUNT
MEASUREMENT METHOD, INFORMATION PROCESSING DEVICE, AND
INFORMATION PROCESSING METHOD**

As the below named inventor, I hereby declare that:

This declaration
is directed to:

☐

The attached application, or

☒

United States application or PCT international application number PCT/JP2018/016007
filed on 2018/04/18

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.

SONY CORPORATION

WHEREAS, **SONY SEMICONDUCTOR SOLUTIONS CORPORATION**

1-7-1 KONAN, MINATO-KU, TOKYO, 108-0075, JAPAN,
4-14-1 Asahi-cho, Atsugi-shi, Kanagawa, Japan

, with offices at

respectively (hereinafter referred to as ASSIGNEES), are desirous of jointly acquiring all interest in, to and under said invention, said application disclosing the invention and in, to and under any Letters Patent or similar legal protection 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 ASSIGNEES, their 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 ASSIGNEES, as the assignees of the whole right, title and interest thereto.

And I further agree to execute all necessary or desirable and lawful future documents, including assignments in favor of said ASSIGNEES or their designee(s), as ASSIGNEES or their successors, assigns and legal representatives may from time-to-time present to me and without further remuneration, in order to perfect title in said invention, modifications, and improvements in said invention, applications and Letters Patent of the United States 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 ASSIGNEES thereof shall hereafter require and prepare at their own expense;

And I further agree that ASSIGNEES will, upon their 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: Kyohei Yoshimitsu

Date: December 9, 2018

Signature: Kyohei Yoshimitsu

**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN
APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR MULTIPLE ASSIGNEES**

Title of Invention	SENSOR DEVICE, WATER AMOUNT MEASUREMENT DEVICE, WATER AMOUNT MEASUREMENT METHOD, INFORMATION PROCESSING DEVICE, AND INFORMATION PROCESSING METHOD
As the below named inventor, I hereby declare that: This declaration is directed to: ☐ The attached application, or ☒ United States application or PCT international application number <u>PCT/JP2018/016007</u> filed on <u>2018/04/18</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. SONY CORPORATION WHEREAS, SONY SEMICONDUCTOR SOLUTIONS CORPORATION, with offices at <u>1-7-1 KONAN, MINATO-KU, TOKYO, 108-0075, JAPAN,</u> <u>4-14-1 Asahi-cho, Atsugi-shi, Kanagawa, Japan</u> respectively (hereinafter referred to as ASSIGNEES), are desirous of jointly acquiring all interest in, to and under said invention, said application disclosing the invention and in, to and under any Letters Patent or similar legal protection 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 ASSIGNEES, their 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 ASSIGNEES, as the assignees of the whole right, title and interest thereto; And I further agree to execute all necessary or desirable and lawful future documents, including assignments in favor of said ASSIGNEES or their designees(s), as ASSIGNEES or their successors, assigns and legal representatives may from time-to-time present to me and without further remuneration, in order to perfect title in said invention, modifications, and improvements in said invention, applications and Letters Patent of the United States 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 ASSIGNEES thereof shall hereafter require and prepare at their own expense; And I further agree that ASSIGNEES will, upon their 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: <u>HIROYUKI MITA</u> Date: <u>2019.12.3</u> Signature: <u>HIROYUKI MITA</u>	

**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN
APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR MULTIPLE ASSIGNEES**

Title of
Invention

**SENSOR DEVICE, WATER AMOUNT MEASUREMENT DEVICE, WATER AMOUNT
MEASUREMENT METHOD, INFORMATION PROCESSING DEVICE, AND
INFORMATION PROCESSING METHOD**

As the below named inventor, I hereby declare that:

This declaration
is directed to:



The attached application, or



United States application or PCT international application number PCT/JP2018/016007

filed on 2018/04/18

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.

SONY CORPORATION

WHEREAS, **SONY SEMICONDUCTOR SOLUTIONS CORPORATION**

, with offices at

1-7-1 KONAN, MINATO-KU, TOKYO, 108-0075, JAPAN,

4-14-1 Asahi-cho, Atsugi-shi, Kanagawa, Japan

respectively (hereinafter referred to as ASSIGNEES), are desirous of jointly acquiring all interest in, to and under said invention, said application disclosing the invention and in, to and under any Letters Patent or similar legal protection 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 ASSIGNEES, their 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 ASSIGNEES, as the assignees of the whole right, title and interest thereto;

And I further agree to execute all necessary or desirable and lawful future documents, including assignments in favor of said ASSIGNEES or their designee(s), as ASSIGNEES or their successors, assigns and legal representatives may from time-to-time present to me and without further remuneration, in order to perfect title in said invention, modifications, and improvements in said invention, applications and Letters Patent of the United States 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 ASSIGNEES thereof shall hereafter require and prepare at their own expense.

And I further agree that ASSIGNEES will, upon their 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: SACHIO IIDA

Date: November 29, 2019

Signature: Sachio Iida

**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN
APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR MULTIPLE ASSIGNEES**

Title of
Invention

**SENSOR DEVICE, WATER AMOUNT MEASUREMENT DEVICE, WATER AMOUNT
MEASUREMENT METHOD, INFORMATION PROCESSING DEVICE, AND
INFORMATION PROCESSING METHOD**

As the below named inventor, I hereby declare that:

This declaration
is directed to:

☐ The attached application, or

☒ United States application or PCT international application number PCT/JP2018/016007
filed on 2018/04/18

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.

SONY CORPORATION

WHEREAS, **SONY SEMICONDUCTOR SOLUTIONS CORPORATION**, with offices at
1-7-1 KONAN, MINATO-KU, TOKYO, 108-0075, JAPAN,
4-14-1 Asahi-cho, Atsugi-shi, Kanagawa, Japan

respectively (hereinafter referred to as ASSIGNEES), are desirous of jointly acquiring all interest in, to and under said invention, said application disclosing the invention and in, to and under any Letters Patent or similar legal protection 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 ASSIGNEES, their 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 ASSIGNEES, as the assignees of the whole right, title and interest thereto;

And I further agree to execute all necessary or desirable and lawful future documents, including assignments in favor of said ASSIGNEES or their designee(s), as ASSIGNEES or their successors, assigns and legal representatives may from time-to-time present to me and without further remuneration, in order to perfect title in said invention, modifications, and improvements in said invention, applications and Letters Patent of the United States 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 ASSIGNEES thereof shall hereafter require and prepare at their own expense;

And I further agree that ASSIGNEES will, upon their 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

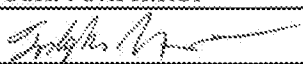
Inventor: SEIJI KOBAYASHI

Date: December 9th, 2019

Signature:

Seiji Kobayashi

**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN
APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR MULTIPLE ASSIGNEES**

Title of Invention	SENSOR DEVICE, WATER AMOUNT MEASUREMENT DEVICE, WATER AMOUNT MEASUREMENT METHOD, INFORMATION PROCESSING DEVICE, AND INFORMATION PROCESSING METHOD
As the below named inventor, I hereby declare that: This declaration is directed to: ☐ The attached application, or ☒ United States application or PCT international application number <u>PCT/JP2018/016007</u> filed on <u>2018/04/18</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. SONY CORPORATION WHEREAS, <u>SONY SEMICONDUCTOR SOLUTIONS CORPORATION</u>, with offices at <u>1-7-1 KONAN, MINATO-KU, TOKYO, 108-0075, JAPAN,</u> <u>4-14-1 Asahi-cho, Atsugi-shi, Kanagawa, Japan</u> respectively (hereinafter referred to as ASSIGNEES), are desirous of jointly acquiring all interest in, to and under said invention, said application disclosing the invention and in, to and under any Letters Patent or similar legal protection 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 ASSIGNEES, their 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 ASSIGNEES, as the assignees of the whole right, title and interest thereto; And I further agree to execute all necessary or desirable and lawful future documents, including assignments in favor of said ASSIGNEES or their designee(s), as ASSIGNEES or their successors, assigns and legal representatives may from time-to-time present to me and without further remuneration, in order to perfect title in said invention, modifications, and improvements in said invention, applications and Letters Patent of the United States 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 ASSIGNEES thereof shall hereafter require and prepare at their own expense; And I further agree that ASSIGNEES will, upon their 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: <u>TOSHIYUKI HIROI</u> Date: <u>December 9, 2019</u> Signature: <u></u>	