### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7428352

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
TOSHIYUKI NISHIHARA	12/11/2018
TOMOHIRO TAKAHASHI	12/17/2018
MASAO MATSUMURA	12/14/2018
TSUTOMU IMOTO	12/18/2018

#### **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:	17863279

#### **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.

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

ATTORNEY DOCKET NUMBER:	6810-1142-CON-2
NAME OF SUBMITTER:	ALISON J. MOY
SIGNATURE:	/Alison J. Moy/
DATE SIGNED:	07/12/2022

**Total Attachments: 4** 

source=20220712\_Declarations-Assignments\_6810-1142-CON-2#page1.tif

PATENT REEL: 060489 FRAME: 0377

507381427

source=20220712\_Declarations-Assignments\_6810-1142-CON-2#page2.tif source=20220712\_Declarations-Assignments\_6810-1142-CON-2#page3.tif source=20220712\_Declarations-Assignments\_6810-1142-CON-2#page4.tif

PATENT REEL: 060489 FRAME: 0378

Attorney Dacket No.: Sony Ref. No.: SP366995US00

# 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	IMAGING ELEMENT	
As the below	named inventor, I hereby declare that:	
This declarati	The ottenhad assoliantian ar	
	United States application or PCT international application number PCT/JP2017/025656 filed on 2017/07/14	
The above-ide	entified application was made or authorized to be made by me.	
WHEREAS,	I am the original inventor or an original joint inventor of a claimed invention in the application.  SONY SEMICONDUCTOR SOLUTIONS CORPORATION , with offices at	
	sahi-cho, Atsugi-shi, Kanagawa, 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;	
of which are legal represer in and to any any and all pt Convention 8 adheres, and t United States	EFORE, in consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency hereby acknowledged, I by those presents do hereby assign, sell and transfer unto said ASSIGNEE, its successors, assigns, and tatives, 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 iority rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-American telating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America to any other benefits accruing or to accrue to me with respect to the filling 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 assignee 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 ASSIGNEE or its designee, as ASSIGNEE or its 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 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 liftgation related thereto;		
And I hereby this assignme	coveriant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with nt and sale.	
	owledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of five (5) years, or both.	
LEGAL NAM	ME OF INVENTOR	
Inventor:	TOSHIYUKI NISHIHARA Date: Dec. 11, 2018	
Signature:	Toshinaki Nishihara	

Attorney Docket No.: Sony Ref. No.: SP366995US00

# 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	IMAGING ELEMENT
As the below	named inventor, I hereby declare that:
This declarati	1 The support of reaching the second
The above-ide	United States application or PCT international application number PCT/JP2017/025656 filed on 2017/07/14  lentified application was made or authorized to be made by me.
	I am the original inventor or an original joint inventor of a claimed invention in the application.
	SONY SEMICONDUCTOR SOLUTIONS CORPORATION , with offices at
	sahi-cho, Atsugi-shi, Kanagawa, 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
legal protection	on which may be granted therefor in the United States and in any and all foreign countries;
of which are legal represent in and to any any and all pro- Convention Readheres, and to United States	EFORE, in consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency hereby acknowledged. I by these presents do hereby assign, sell and transfer unto said ASSIGNEE, its successors, assigns, and natives, 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 riority rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-American Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America to any other benefits according or to accoud to me with respect to the filling of applications for patents or securing of patents in the stand countries foreign thereto, and I hereby authorize and request the Commissioner of Patents to issue said United States Letters I 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 it, in order to perfect title in said invention, modifications, and improvements in said invention, applications and Letters Patent of lates and countries foreign thereto;
application fo	er 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 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 this assignme	covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with ent and sale.
	nowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of n five (5) years, or both.
LEGAL NAM	ME OF INVENTOR
Inventor:	TOMOHIRO TAKAHASHI Date: 120/8
Signature:	Tomohijo Takahashi

PATENT REEL: 060489 FRAME: 0380

# 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 IMAGING ELEMENT	
As the below named inventor, I hereby declare that:	
This declaration is directed to:  The attached application, or	
United States application or PCT international app filed on $2017/07/14$	lication number PCT/JP2017/025656
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 whereas, SONY SEMICONDUCTOR SOLUTIONS CORPOR	
4-14-1 Asahi-cho, Atsugi-shi, Kanagawa, Japan	(hereinafter referred to as ASSIGNEE), is desirous of
acquiring all interest in, to and under said invention, said application disclosing t legal protection which may be granted therefor in the United States and in any an	
NOW THEREFORE, in consideration of the sum of One Dotlar (\$1.00), and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I by these presents do hereby assign, self 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 potents 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;	
And I further agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEE or its designee, as ASSIGNEE or its 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 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 not more than five (5) years, or both.	punishable under 18 U.S.C. 1001 by fine or imprisonment of
LEGAL NAME OF INVENTOR	
Inventor: MASAO MATSUMURA	Date: 2018/12/14
Signature: Masac Matsumwa	

PATENT REEL: 060489 FRAME: 0381

### 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	IMAGING ELEMENT
As the below	named inventor, I hereby declare that:
This declarati	1 Prophy agree that the property of the control of
The shove of	United States application or PCT international application number FCT/JP2017/025656 filed on 2017/07/14
	•
	I am the original inventor or an original joint inventor of a claimed invention in the application.  SONY SEMICONDUCTOR SOLUTIONS CORPORATION , with offices at
	sahi-cho, Atsugi-shi, Kanagawa, 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 filling of applications for putents 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;  And I further agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEE or sts designee, as ASSIGNEE or its 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 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 NAN	ME OF INVENTOR
Inventor:	TSUTOMU IMOTO Date: Dec. 18, 2018
Signature:	Teta Omoto

PATENT REEL: 060489 FRAME: 0382

**RECORDED: 07/12/2022**