07/12/2023 508005946 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT8053086

SUBMISSION TYPE:		NEW ASSIGNMENT								
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT							
CONVEYING PARTY D	ΑΤΑ									
		Name	Execution Date							
NAOKI KAWAZU			08/03/2020							
MASAKI MUROZUKA		07/17/2020								
YUICHI MOTOHASHI		03/15/2023								
ATSUSHI SUZUKI		07/14/2020								
RECEIVING PARTY D	ΔΤΑ									
Name:		EMICONDUCTOR SOLUTIONS COF	PORATION							
Street Address:		4-14-1 ASAHI-CHO, ATSUGI-SHI								
City:		ANAGAWA								
State/Country:	JAPAN									
Postal Code:		243-0014								
	S Total: 1									
PROPERTY NUMBERS	S Total: 1									
Property Type		Number								
Application Number:	1	8134434								
CORRESPONDENCE I Fax Number:		617)646 8646								
	· ·	617)646-8646 t he e-mail address first; if that is ur t	successful, it will be sent							
		if that is unsuccessful, it will be se								
Phone:		176468000								
-			administrators@wolfgreenfield.com							
		RANDY J. PRITZKER	-							
Address Line 1:		VOLF, GREENFIELD & SACKS, P.C.								
Address Line 2: Address Line 4:	-	BOSTON, MASSACHUSETTS 02210-	2211							
		-								
ATTORNEY DOCKET N		S1459.72394US01								
NAME OF SUBMITTER:			CONNOR FALLON							
SIGNATURE:		/CONNOR FALLON/								
DATE SIGNED:		07/12/2023	07/12/2023							
Total Attachments: 4										
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Attorney Bocket No.: Sony Ref. No.: SP371198US00

	CLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN LICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE
Title of Invention	IMAGING DEVICE AND IMAGING SYSTEM
As the below	named inventor, I hereby declare that:
This declarati is directed to:	The attached application or
	United States application or PCT international application number PCT/JP2019/004033 filed on
The above-id	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
4-14-1 A acquiring all	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 pa Convention R adheres, and 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 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 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 assignee 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 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;
application fo	r agree to properly execute and deliver and without further remaineration, such necessary or desirable and lawful papers for in foreign patents, for filing subdivisions of said application for patent, and or, for obtaining any reissue or missues of any Letters may be granted for my aforesaid invention, as said ASSIGNEE thereof shall hereafter require and prepare at its own expense;
application, s	r agree that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said and invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to me and will be 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 nt and sale.
I hereby ackn not more than	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	TE OF INVENTOR
Inventor:	NAOKI KAWAZU Date: 2020/08/03
Signature:	Naoki Kawazu

PATENT REEL: 064227 FRAME: 0558

Attorney Docket No.: Sony Ref. No.: SP371198U800

DI APPI	ECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN LICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE
Title of Invention	IMAGING DEVICE AND IMAGING SYSTEM
As the below	named inventor. Thereby declare that
This declarat is directed to	3 When with a short thread the second structure and
	United States application or PCT international application number PCT/JP2019/004033 filed on
The above-id	lentified 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. <u>SONY SEMICONDUCTOR SOLUTIONS CORPORATION</u> , with offices at
acquiring all	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 represent in and to any any and all put Convention F adheres, and United States	EPORE, 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 nority 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 accruing or to accrue to me with respect to the filing of applications for patents or securing of patents in the 1 and countries foreign thereto, and 1 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 therest 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;
application ic	r agree to properly execute and deliver and without further remuneration, such necessary or desirable and lawful papers for or 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;
application, s	r agree that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said aid invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to me and will be same in any inferference 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 nt and sale.
I hereby ackn not more than	iowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of thre (5) years, or both.
LEGAL NAS	AE OF INVENTOR
Inventor.	MASAKI MUROZUKA Date: 2820 07, 17
Signature:	MASAKI MUROZUKA

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE س
Title of IMAGING DEVICE AND IMAGING SYSTEM
As the below named inventor, I hereby declare that:
This declaration The attached application, or is directed to:
Tunited States application or PCT international application number PCT/JP2019/004033
filed on <u>02/05/2019</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.
WHEREAS, SONY SEMICONDUCTOR SOLUTIONS CORPORATION, with offices a
4-14-1 ASAHI-CHO, ATSUGI-SHI, KANAGAWA, 243-0014 (hereinafter referred to as ASSIGNEE), is desirous of acquiring all interest in, to and under said invention, said application disclosing the invention and in, to and under any Letters Patent or similar
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 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-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; 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 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: YUICHI MOTOHASHI Date: 2023-03-15
Signature: /Yuichi Motohashi/

Attorney Dacket No.: Sony Ref. No.: SP371198US00

	CLARATIC											
Fitle of Invention	IMAGING	DEVI	CE AND	IMAGIN	VG SYS	TEM						
As the below	named inventor,	f hereby -	fectore that:									
This declaration is directed to:		The att	sched applic	stion, of								
	\boxtimes		States applic	nion or PCT i 2/05	internations	l applicatio	n number	PCT	JP2015	/00403	3.	
The above-id	entified application	m was m	ade or author	ized to be m	ade by me.							
WHEREAS,	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	IICONI	NICTOR	SOLUTIO			<u>)N</u>	~~~~~~			, with offi	
equiring all	sahi-cho, Atsu interest in, to and on which may be	under sa	id invention	said applica	tion disclos	ine the inv	ention and	in, to a			INEE), is desire ers Paterit or si	
of which are legal represer in and to any my and all pr Convention 8 adheres, and United States	EFORE, in consi- hereby acknowle natives, the entire and all Letters P fority rights and/ telating to Patent to any other bene and countries for ASSIGNEE, as to	dged, 1 b e right, tif atent of t or conver s, Design fits accro reign ther	y these press to and intere- he United St ation rights u and Indust- ing or to acc- eto, and I he	ents do hereb st in said inve- ates, and cou ader the Inte- rial Models, r rue to me wi reby authoriz	ny assign, s ention, said mtries force rnational C and any oth th respect t ze and requ	ell and trai application on thereta, anyention ar internation o the filing est the Cor	isfer unto 1, includin which me for the Pro- ional agree of applic	said AS g any di y be gra tection ments b itions fe	SIGNEE visions a inted for of Indust of which of patents	, its succ nd contin said inve rial Prope the Unite or secur	essors, assign- mations thereo- mtion, and in e erry, Inter-Ame d States of Am- ing of matents	s, and f, and und to crican terica in the
lesignee, as conumeration	agree to execut ASSIGNEE, or , in order to perfe ates and countries	its succes but title is	ssors, assign i said invent	s and legal	represental	ives may	from time	-to-time	present	to me a	and without fr	urther
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application, a	r agree that ASS aid invention and to same in any m	d said Lei	ters Patent o	nd legal equ	ivalents in	promptly s foreign cos	vith all pr antries as	rtinent may be	facts and known a	docume nd access	ents relating to sible to me and	v said d wil
And I hereby his assignme	covenant that no nt and sale	assignm	ni, sale, agri	ement or enc	cumbrance	has been of	will be m	ade or e	ntered in	to which	would conflic	t with
hereby ackr	wwledge that any 1 five (5) years, o	[,] willful f r both.	alse stateme	st made in th	ús declarati	on ís punis	hable und	x 18 Û.	S.C. 100	t by fine	ər imprisonm	rni o
LÉGAL NAN	ME OF INVENTO)R					***************************************				 5	******
inventor:	ATSUSHLSI	JZUKI					Date		02.0,	07,	14	*****
Signature	Atushi	Su	zuki									

RECORDED: 07/12/2023