506252579 09/15/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6299324

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TAKASHI KUBARA	08/25/2020
YOSUKE KAWAUCHI	09/03/2020
YUICHI HATASE	08/21/2020

RECEIVING PARTY DATA

Name:	PANASONIC I-PRO SENSING SOLUTIONS CO., LTD.	
Street Address:	4-1-62 MINOSHIMA, HAKATA-KU, FUKUOKA-SHI	
City:	FUKUOKA	
State/Country:	JAPAN	
Postal Code:	812-8531	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16981019

CORRESPONDENCE DATA

Fax Number: (703)716-1180

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.

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Email: gbpatent@gbpatent.com

Correspondent Name: GREENBLUM & BERNSTEIN, P.L.C. Address Line 1: 1950 ROLAND CLARKE PLACE

Address Line 4: RESTON, VIRGINIA 20191

ATTORNEY DOCKET NUMBER:	P61466
NAME OF SUBMITTER:	STEVEN B. POLLICOFF
SIGNATURE:	/Steven B. Pollicoff/
DATE SIGNED:	09/15/2020

Total Attachments: 4

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> PATENT REEL: 053776 FRAME: 0574

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DISCLAIMER PAGE:

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PATENT REEL: 053776 FRAME: 0575

PIPS Reft: SP908251US01	Application Serial No.
US Firm Name*: GREENBLUM (* mon he felled)	US Firm Ref:

ASSIGNMENT

WHEREAS, the undersigned has thave) invented the invention entitled:				
86×1				
Title of Invention:				
CAMERA MODULE, CAMERA, AND CABLE CONNECT	ION METHOD FOR C/	NMERA MODULE		
1. For use when signing Declaration prev to filing (1. For use when signing Declaration prior to fling U.S. patent application (check only one box before)			
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(a)⊟for which an application for U.S. patent has been executed by the undersigned concurrently herewith, or				
(b) to for which an application for U.S. patent has been executed on the following date(s):, or, or,				
19 Declaration & Assuprated are sopred on the same day, eleck (a) and make in energ in the blank, it the Declaration was rigined before this Assignment, emorghe directs) on which you regard the Declaration.				
(c) sfor which an International Application has been filed as:		7.077(1704.1410.1704.7		
the the FCF-US national entities check only see and other PCT application member in the rigid;	PCT Application No.	PCT/JP2019/015032 and,		
2. For use when signing Declaration after filing U.S. patent application				
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(d)⊡for which an application for U.S. patent has been filed on:	Application Filing Date	and.		
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WHEREAS, PANASONIC I-PRO SENSING SOLUTIONS CO., LTD., 4-1-62, MINOSHIMA, HAKATA-KU, FUKUOKA-SHI, FUKUOKA 812-8531 JAPAN, and

its/their heirs, successors, legal representatives and assigns (hereinafter designated as "Assignee(s)") is/are desirous of acquiring the entire right, little, and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged and intended to be legally bound hereby, the undersigned, by these presents, does self, assign and transfer unto said Assignes(s) the entire and exclusive right, title and interest in end to; (i) said invention in the United States of America, its territories, dependencies and possessions (hereinafter designated as the United States) and in all countries foreign to the United States; and (ii) this patent application and any and all related patent application(s) disclosing said invention, including provisionals, non-provisionals, conversions, divisions, continuations, continuations-in-part and reissues thereof in the United States and all countries foreign to the United States (hereinafter designated as "Related Applications"), along with all rights of priority created by this patent application under any treaty relating thereto; and (iii) any and all Letters Patent(s), including all renewals, extensions, reissues and reexamination certificates which may be granted therefore, and all rights to sue for past and future infringement thereunder, in the United States and in all countries foreign to the United States for the full term or terms thereof.

The undersigned agree(s) to execute all papers necessary in connection with this application and any and all Related Applications thereof, all papers and documents and perform any act which may be necessary in connection with claims or provisions of the Internetional Convention for Protection of Industrial Property or similar agreements, all papers necessary in connection with any interference which may be declared concerning this application or any and all Related Applications thereof and to cooperate with the Assignee(s) in every way possible in obtaining and producing evidence and proceeding with such interference, and for any and all litigations regarding, or for the purpose of protecting the right, title and interest in and to said invention, this application and any and all Related Applications or Letters Patent(s) therefore, and to testify in any legal proceeding relating thereto and in support thereof, for the benefit of Assignee(s), and also to execute separate assignments in connection with such applications as the Assignee(s) may deem necessary or expedient.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States and any foreign patent(s) to the Assignee(s) and to vest all rights hereby conveyed to the Assignee(s) as fully and entirely as the same would have been held by the undersigned if this Assignment had not been made.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents, and officials of all foreign countries, whose duty is to issue patents, to issue any and all Letters Patent(s) resulting from said application or any and all Related Applications thereof to said Assignee(s) and hereby covenants that the undersigned has (have) full right to convey the entire interest herein assigned, and that the undersigned has (have) not executed, and will not execute, any assignment, sale, agreement or encumbrances in conflict herewith.

The undersigned hereby does sell, assign and transfer unto said Assignee(s) the full and exclusive authority for revoking power of attorney(s) executed by the undersigned in connection with this application and for appointing a new power of attorney in place thereof. The undersigned hereby grant(s) the Assignee(s) and the appointed U.S. patent attorneys and agents the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent Office for recordation of this

The undersigned hereby agree(s) that the above obligations shall apply to the undersigned both individually and collectively.

The undersigned hereby agree(s) that this Assignment shall be construed in accordance with the law of the appropriate jurisdiction within the United States.

IN WITNESS WHEREOF, executed by the undersigned on the date(s) following the undersigned name(s) and signature(s).

Box2	(Each Inventor, please Sign and Date b	elow)	
	(e) First Name, Last Name	(f) Signature	(g) Date signed
(3)	Takashi KUBARA	Takashi Kulara	мольт. Сове. чеж A ug. 25, 2020
(2)	Yousuke KAWAUCHI		Moretti, Dato, Your
(3)	Yuichi HATASE		Month, Delle, Year
(4)			Month, Date, Year

Check if additional paper(s) is/are attached. Total of _1_page(s) are submitted.

PIPS Ref*: <u>SP900261US01</u>	Application Serial No
US Firm Name*: GREENBLUM	US Firm Ref:

ASSIGNMENT

WHEREAS, the undersigned has (have) invented the invention entitled:		
Box 1		
Title of Invention:		
CAMERA MODULE, CAMERA, AND CABLE CONNECT	ION METHOD FOR CA	MERA MODULE
1. For use when signing Declaration prior to filing t	J.S. patent application (check on	ly one box below)
(a)□for which an application for U.S. patent has been executed	by the undersigned concu	rrently herewith, or
(b) or which an application for U.S. patent has been executed on the following date(s):, or (if Declaration & Assignment are signed on the same day check (a) and make no entry in the blank; if the Declaration was signed before this Assignment, enter the date(s) on which you signed the Declaration)		
(c) Mofor which an International Application has been filed as: (for the PCT-US national entry; these soft) (e) and enter PCT application manher in the rigid;	PCT Application No.	PCT/JP2019/015032 and,
2. For use when signing Declaration after filing U.S. patent application		
(d)⊡for which an application for U.S. patent has been filed on:	Application Filing Date	and,

WHEREAS, PANASONIC I-PRO SENSING SOLUTIONS CO., LTD., 4-1-62 MINOSHIMA, HAKATA-KU, FUKUOKA-SHI, FUKUOKA 812-8531 JAPAN, and

its/their heirs, successors, legal representatives and assigns (hereinafter designated as "Assignee(s)") is/are desirous of acquiring the entire right, title, and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged and intended to be legally bound hereby, the undersigned, by these presents, does sell, assign and transfer unto said Assignee(s) the entire and exclusive right, title and interest in and to; (i) said invention in the United States of America, its territories, dependencies and possessions (hereinafter designated as the United States) and in all countries foreign to the United States; and (ii) this patent application and any and all related patent application(s) disclosing said invention, including provisionals, non-provisionals, conversions, divisions, continuations, continuations-in-part and reissues thereof in the United States and all countries foreign to the United States (hereinafter designated as "Related Applications"), along with all rights of priority created by this patent application under any treaty relating thereto; and (iii) any and all Letters Patent(s), including all renewals, extensions, reissues and reexamination certificates which may be granted therefore, and all rights to sue for past and future infringement thereunder, in the United States and in all countries foreign to the United States for the full term or terms thereof.

The undersigned agree(s) to execute all papers necessary in connection with this application and any and all Related Applications thereof, all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements, all papers necessary in connection with any interference which may be declared concerning this application or any and all Related Applications thereof and to cooperate with the Assignee(s) in every way possible in obtaining and producing evidence and proceeding with such interference, and for any and all litigations regarding, or for the purpose of protecting the right, title and interest in and to said invention, this application and any and all Related Applications or Letters Patent(s) therefore, and to testify in any legal proceeding relating thereto and in support thereof, for the benefit of Assignee(s), and also to execute separate assignments in connection with such applications as the Assignee(s) may deem necessary or expedient.

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The undersigned hereby grant(s) the Assignee(s) and the appointed U.S. patent attorneys and agents the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent Office for recordation of this document.

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The undersigned hereby agree(s) that this Assignment shall be construed in accordance with the law of the appropriate jurisdiction within the United States.

IN WITNESS WHEREOF, executed by the undersigned on the date(s) following the undersigned name(s) and signature(s).

Box2	(Each Inventor, please Sign and Date be	elow)	
	(e) First Name, Last Name	* (f) Signature	(g) Date signed
(1)	Takashi KUBARA		Month, Dafe, Year
(2)	Yosuke KAWAUCHI	Yosuko Kowaucki	Month, Date, Year Sep. 3, 2020
(3)	Yuichi HATASE		Month, Date, Year
(4)			Month, Date, Year

□Check if additional paper(s) is/are attached. Total of _1_ page(s) are submitted.

PIPS Ref": <u>SP800261US01</u>	Application Serial No.
US Firm Name*: <u>GREENBLUM</u>	US Firm Ref:

ASSIGNMENT

WHEREAS, the undersigned has (have) invented the invention entitled:				
Sox 1				
Title of Invention:				
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(a) Differ which an application for U.S. patent has been executed $\boldsymbol{\theta}$	by the undersigned concu	rrently herewith, or		
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(c) \$\$ for which an International Application has been filed as: the PCFUS national cutry check only by and true PCF upditional moder in the right	PCY Application No.	PCT/JP2019/015032 and, 1		
2. For use when signing Declaratin	n after filing U.S. patent applicate	207		
(d)Ofor which an application for U.S. patent has been filed on:	Application Filing Date	and.		

WHEREAS, <u>Panasonic LPRO Sensing Solutions CO., LTD., 4-1-82, Minoshima, Hakata-ku, Fukucka-shi, Fukuoka</u> 812-8531 JAPAN, and

its/their trains, successors, legal representatives and assigns (hereinafter designated as "Assignee(s)") is/are destrous of acquiring the entire right, title, and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor.

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	(e) First Name, Last Name	(f) Signature	(g) Date signed	
(1)	Takashi KUBARA			
(2)	Yousuke KAWAUCHI		Month, Osig, Year	
(3)	Yulchi HATASE	Guide Minae	Month, Dare, Year Aug, 21, 2-02-0	
(4)			Month, Dale, Year	

CiCheck if additional paper(s) is/are attached. Total of 11 page(s) are submitted.

RECORDED: 09/15/2020

PATENT REEL: 053776 FRAME: 0578