504150740 12/22/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4197413

SUBMISSION TYPE:		N	EW ASSIGNMENT		
NATURE OF CONVEYANCE:		A	ASSIGNMENT		
CONVEYING PARTY D	ΟΑΤΑ	•			
			ame	Execution Date	
GABRIELE GIACOMIN	I			12/19/2016	
CLAUDIO PIEMONTE				12/19/2016	
DAISUKE MATSUNAG	A			12/19/2016	
RECEIVING PARTY D	ΑΤΑ				
Name: HORIBA, LTI					
Street Address:	2, MIY	2, MIYANOHIGASHI-CHO, KISSHOIN, MINAMI-KU			
City:		KYOTO-SHI, KYOTO			
State/Country:	JAPAN	JAPAN			
Postal Code:	601-85	601-8510			
PROPERTY NUMBERS	S Total: 1	1			
Property Type			Number		
Application Number: 153		153878	37809		
CORRESPONDENCE	DATA				
Fax Number:	_	• •	501-3526		
			nail address first; if that is un ' is unsuccessful, it will be se		
Phone:	F		501-5700		
Email:		docket@	et@cdfslaw.com, kdugo@cdfslaw.com		
Correspondent Name: CAR			TER, DELUCA, FARRELL & SCHMIDT, LLP		
Address Line 1:445 E		-	BROAD HOLLOW ROAD		
Address Line 2:		SUITE 420			
Address Line 4:		MELVIL	LE, NEW YORK 11747		
ATTORNEY DOCKET NUMBER:			44584-1007		
NAME OF SUBMITTER:			ROBERT P. MICHAL		
SIGNATURE:			/Robert P. Michal/		
DATE SIGNED:		1:	12/22/2016		
		Т	his document serves as an Oat	h/Declaration (37 CFR 1.63).	
Total Attachments: 3		I			

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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: SEMICONDUCTOR DETECTOR, RADIATION DETECTOR AND RADIATION DETECTION APPARATUS

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 ______ filed on ______

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.

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.

WHEREAS, I, the below-identified Inventor, have invented certain new and useful improvements in the Invention identified above and described in the above-identified patent application(s) and/or patent(s) (hereinafter "Invention");

WHEREAS, HORIBA, Ltd., (hereinafter "Assignee") having place of business at: 2. Mivanohigashi-cho. Kisshoin. Minami-ku, Kyoto-shi, Kyoto 601-8510 Japan 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 or its territorial possessions;

NOW, this indenture witnesseth, that in consideration of the sum of ONE DOLLAR (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration;

I hereby assign, sell and transfer my above-identified rights, title and interest in said invention, said application(s) as identified above, including any divisions, continuations, and continuations-in-part 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 reissues and reexaminations thereof, which may be granted or have granted for said Invention, and in and to any and all priority rights, Convention rights, and other benefits accruing or to accrue to us with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, unto said Assignee;

And I hereby authorize and request the Commissioner of Patents and Trademarks to issue any Untied States Letters Patent which my issue for said Invention to said Assignee, as assignee of the whole right, title and interest thereto;

And I further agree to sign and execute all necessary and lawful further documents, including applications for foreign patents, for filing divisions, continuations, and continuations-in-part 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 the Assignee or its successors and designees may from time to time require and prepare at its own expense.

The undersigned hereby grants the firm of CARTER, DELUCA, FARRELL & SCHMIDT, LLP, located at 445 Broad Hollow Road, Suite 420, Melville, New York 11747, 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 United States Patent Office for recordation of this document.

LEGAL NAME	Inventor: Gabriele Giaco	mini	Date: De ambu 19420/6
OF INVENTOR	Signature:	le farourin	
	1	1	

CARTER, DELUCA, FARRELL & SCHMIDT, LLP 445 BROAD HOLLOW ROAD, SUITE 420 MELVILLE, NEW YORK 11747

PATENT REEL: 041175 FRAME: 0367

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	SEMICONDUCTOR DETECTOR, RADIA	TION DETECTOR AND			
INVENTION:	RADIATION DETECTION APPARATUS				
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 filed on					
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.					
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NOW, this indenture witnesseth, that in consideration of the sum of ONE DOLLAR (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration;					
I hereby assign, sell and transfer my above-identified rights, title and interest in said Invention, said application(s) as identified above, including any divisions, continuations, and continuations-in-part 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 reissues and reexaminations thereof, which may be granted or have granted for said Invention, and in and to any and all priority rights, Convention rights, and other benefits accruing or to accrue to us with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, unto said Assignee;					
And I hereby authorize and request the Commissioner of Patents and Trademarks to issue any Untied States Letters Patent which my issue for said Invention to said Assignee, as assignee of the whole right, title and interest thereto;					
And I further agree to sign and execute all necessary and lawful further documents, including applications for foreign patents, for filing divisions, continuations, and continuations-in-part 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 the Assignee or its successors and designees may from time to time require and prepare at its own expense.					
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OF INTENTOD	iventor: Claudio Piemonte	Date: 19/12/16			

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PATENT REEL: 041175 FRAME: 0368

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TITLE OF SEMICONDUCTOR DETECTOR, RADIATION DETECTOR AND RADIATION DETECTION APPARATUS **INVENTION:**

As the below named inventor, I hereby declare that:

This declaration is directed to:

The attached application, or International application number filed on filed on the second se

The above-identified application was made or authorized to be made by me.

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And I hereby authorize and request the Commissioner of Patents and Trademarks to issue any Untied States Letters Patent which my issue for said Invention to said Assignee, as assignee of the whole right, title and interest thereto;

And I further agree to sign and execute all necessary and lawful further documents, including applications for foreign patents, for filing divisions, continuations, and continuations-in-part 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 the Assignee or its successors and designees may from time to time require and prepare at its own expense.

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LEGAL NAME	Inventor: Daisuke Matsunaga	She Brandard
OF INVENTOR	Signature: Daiwho materingon	Date: <u>12//9/2016</u>

CARTER, DELUCA, FARRELL & SCHMIDT, LLP 445 BROAD HOLLOW ROAD, SUITE 420 MELVILLE, NEW YORK 11747

> PATENT REEL: 041175 FRAME: 0369

RECORDED: 12/22/2016