504418353 06/16/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4465053

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
RONALD D. BLUM	01/19/2015
SOPHIE ADAMS	01/27/2015
DAVID BOYD	01/04/2015
JOSHUA HADDOCK	12/29/2014
VENKI IYER	01/06/2015
WILLIAM KOKONASKI	01/13/2015
CHARLES WILLEY	01/17/2015

RECEIVING PARTY DATA

Name:	PIXELOPTICS, INC.
Street Address:	5241 VALLEY PARK DRIVE
City:	ROANOKE
State/Country:	VIRGINIA
Postal Code:	24019

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15226621

CORRESPONDENCE DATA

Fax Number: (202)371-2540

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: (202) 371-2540

Email: UBhansali@skgf.com,TTOPSSecretary1@skgf.com
Correspondent Name: STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C

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ATTORNEY DOCKET NUMBER:	3955.0040006
NAME OF SUBMITTER:	JOHN P. MCGROARY
SIGNATURE:	/John McGroarty 41186/
DATE SIGNED:	06/16/2017

PATENT 504418353 REEL: 042859 FRAME: 0817

Total Attachments: 21 source=3955_ASSIGNMENT_INVENTORS_TO_PIXEL#page1.tif source=3955 ASSIGNMENT INVENTORS TO PIXEL#page2.tif source=3955 ASSIGNMENT INVENTORS TO PIXEL#page3.tif source=3955_ASSIGNMENT_INVENTORS_TO_PIXEL#page4.tif source=3955 ASSIGNMENT INVENTORS TO PIXEL#page5.tif source=3955 ASSIGNMENT INVENTORS TO PIXEL#page6.tif source=3955_ASSIGNMENT_INVENTORS_TO_PIXEL#page7.tif source=3955_ASSIGNMENT_INVENTORS_TO_PIXEL#page8.tif source=3955 ASSIGNMENT INVENTORS TO PIXEL#page9.tif source=3955 ASSIGNMENT INVENTORS TO PIXEL#page10.tif source=3955_ASSIGNMENT_INVENTORS_TO_PIXEL#page11.tif source=3955 ASSIGNMENT INVENTORS TO PIXEL#page12.tif source=3955 ASSIGNMENT INVENTORS TO PIXEL#page13.tif source=3955_ASSIGNMENT_INVENTORS_TO_PIXEL#page14.tif source=3955_ASSIGNMENT_INVENTORS_TO_PIXEL#page15.tif source=3955_ASSIGNMENT_INVENTORS_TO_PIXEL#page16.tif source=3955 ASSIGNMENT INVENTORS TO PIXEL#page17.tif source=3955 ASSIGNMENT INVENTORS TO PIXEL#page18.tif source=3955 ASSIGNMENT INVENTORS TO PIXEL#page19.tif source=3955 ASSIGNMENT INVENTORS TO PIXEL#page20.tif source=3955 ASSIGNMENT INVENTORS TO PIXEL#page21.tif

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventor(s): Ronald D. BLUM, Sophie ADAMS, David BOYD, Richard CLOMPUS, Mark GRAHAM, Joshua HADDOCK, Robert HALL, Venki IYER, William KOKONASKI, Charles WILLEY, Yongping WANG, and Claudio DALLA LONGA, hereby confirm the sale and assignment to PixelOptics, Inc., a corporation formed under the laws of Delaware, having an office and place of business at 5241 Valleypark Drive, Roanoke, Virginia 24019 (hereafter referred to as the "Assignee"), of his/her entire right, title and interest for the United States of America (as defined in 35 U.S.C. § 100), and throughout the world, including the right to sue for past infringement and to collect for all past, present and future damages, as follows,

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- (b) in any and all applications that claim the benefit of the patent application listed above in part (a), including non-provisional applications, continuing (continuation, divisional, or continuation-in-part) applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and
- (c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

WHEREAS, a recordable document is needed to demonstrate the assignment of the application(s) or any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof;

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Signature of Inventor:

Page 2 of 3

Ronald D. BLUM

Date:	Signature of Inventor:	
	Signature of Inventor:Sophic ADAMS	
Date:	Signature of Inventor:	
	Signature of Inventor:	
Date:	Signature of Inventor: Richard CLOMPUS	
	Richard CLOMPUS	
Date:	Signature of Inventor:Mark GRAHAM	
	Mark GRAHAM	
Date:	Signature of Inventor:	
	Joshua HADDOCK	
Date:	Signature of Inventor:Robert HALL	
	Robert HALL	
Date:	Signature of Inventor: Venki IYER	
	VenkiiYER	
Date:	Signature of Inventor:William KOKONASKI	,»
	1ASANOAOA manii w	
Date:	Signature of Inventor:Charles WILLEY	
Date:	Signature of Inventor:Yongping WANG	******
	Yongping WANG	
Date:	Signature of Inventor:	
	Claudio DALLA LONGA	
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Page 2 of 3

Date: 37 / 271 / 270 (\$	Signature of Inventor:	Same Fireman
		Sophie ADAMS
Date:	Signature of Inventor:	
		David BOYD
Date:	Signature of Inventor:	
		Richard CLOMPUS
Date:	Signature of Inventor:	
		Mark GRAHAM
Date:	Signature of Inventor:	
		Joshua HADDOCK
Date:	Signature of Inventor:	D) (1) 1 1 1
		Robert HALL
Date:	Signature of Inventor:	Venki IYER
		VCRKITYEK
Date:	Signature of Inventor:	William KOKONASKI
Date:	Signature of Inventor:	Charles WILLEY
Date:	Signature of Inventor:	Yongping WANG
Date:	Signature of Inventor:	Claudio DALLA LONGA
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Page 3 of 3

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IN WITNESS WHEREOF executed by the undersioned inventor(s) on the date

Appl. No. 13/916,480 Atty. Docket No. 3585.0040005

Date:	Signature of Inventor:	
		Sophie ADAMS A
Date: 1 - 4 - 20/5	Signature of Inventor:	David BOYD
Date:		Richard CLOMPUS
Date:	Signature of Inventor:	Mark GRAHAM
Date:		
Sau-		Joshua HADDOCK
Date:	Signature of Inventor:	Robert HALL
Date:	Signature of Inventor:	Venki IYER
Date:	Signature of Inventor:	William KOKONASKI
		William KOKONASKI
Date:	Signature of Inventor:	Charles WILLEY
Parto	Signatura of Invantor	
Date:	Digitature of myemon.	Yongping WANG
Date:	Signature of Inventor:	
		Claudio DALLA LONGA

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Ronald D. BLUM

Date:

Signature of Inventor:

Sophie ADAMS

Date:

Signature of Inventor:

David BOYD

Date:

Signature of Inventor:

Richard CLOMPUS

Date:

Signature of Inventor:

Mark GRAHAM

Date: 12/29/2014

Signature of Inventor:

Joshua HADDOCK

Date:

Signature of Inventor:

Robert HALL

Date:

Signature of Inventor:

Venki IYER

Date:

Signature of Inventor:

William KOKONASKI

Date:

Signature of Inventor:

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Date:

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- (b) in any and all applications that claim the benefit of the patent application listed above in part (a), including non-provisional applications, continuing (continuation, divisional, or continuation-in-part) applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and
- (c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

WHEREAS, a recordable document is needed to demonstrate the assignment of the application(s) or any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof;

NOW, THEREFORE, the undersigned inventor(s) do hereby confirm, pursuant to an employment agreement including an obligation to assign, and for good and valuable consideration received at the time, that he/she assigned and transferred to Assignee, its representatives, successors, and assigns, his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages, in the United States and throughout the world, (a) in the application(s), in any and all applications thereon, and in any and all Letters Patent(s) therefor, and (b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing applications, reissues, extensions, renewals and reexaminations of the patent applications or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and (c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable; all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the undersigned inventor(s) had this assignment and sale not been made.

The undersigned inventor(s) agree to execute all papers necessary in connection with the applications and Letters Patents as above, and any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned inventor(s) agree to perform all affirmative acts at Assignee's request and expense that may be necessary to obtain or ensure a grant of a valid patent to the Assignee.

The undersigned inventor(s) hereby represent that Assignor has full right and authority to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

The undersigned inventor(s) hereby grant the patent practitioners associated with CUSTOMER NUMBER 115626 the power to insert in this assignment any further information that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by the undersigned inventor(s) on the date opposite his/her name.

Date: ______ Signature of Inventor: ______ Ronald D. BLUM

Date:	Signature of inventor:	Sophie ADAMS
		•
Date:	Signature of Inventor: _	David BOYD
Date:	Signature of Inventor:	
Date	Signature of Inventor:	Richard CLOMPUS
Date:	Signature of Inventor:	Mark GRAHAM
Date:	Signature of Inventor:	Joshua HADDOCK
Date:	Signature of Inventor:	
		Robert HALL
Date: 01/06/2015	Signature of Inventor:	Venki TYER
is a larger street		
Date: 00/05/2005	Signature of inventor:	William KOKONASKI
Date:	Signature of Inventor:	Charles WILLEY
***************************************		Charles WILLEY
Date:	Signature of Inventor:	Yongping WANG
	G' / Classanton	
Date:	_ Signature of Inventor:	Claudio DALLA LONGA

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In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventor(s): Ronald D. BLUM, Sophie ADAMS, David BOYD, Richard CLOMPUS, Mark GRAHAM, Joshua HADDOCK, Robert HALL, Venki IYER, William KOKONASKI, Charles WILLEY, Yongping WANG, and Claudio DALLA LONGA, hereby confirm the sale and assignment to PixelOptics, Inc., a corporation formed under the laws of Delaware, having an office and place of business at 5241 Valleypark Drive, Roanoke, Virginia 24019 (hereafter referred to as the "Assignee"), of his/her entire right, title and interest for the United States of America (as defined in 35 U.S.C. § 100), and throughout the world, including the right to sue for past infringement and to collect for all past, present and future damages, as follows,

WHEREAS, pursuant to an employment agreement including an obligation to assign, the undersigned inventor(s) assigned and transferred to Assignee, June 12, 2013, all right, title, and interest, including the right to sue for past infringement and to collect for all past, present and future damages, for the United States of America (as defined in 35 U.S.C. § 100) and throughout the world, for good and valuable consideration received at that time,

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- (c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

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Appl. No. 13/916,480 Atty. Docket No. 3585,0040005

Date:	Signature of Inventor:	
		Sophie ADAMS
Date:	Signature of Inventor:	David BOYD
Date:	Signature of Inventor:	Richard CLOMPUS
Datas		
Date:	Signature of inventor.	Mark GRAHAM
Date:	Signature of Inventor:	Joshua HADDOCK
		Joshua HADDOCK
Date:	Signature of Inventor:	Robert HALL
Date:		Venki IYER
Date: 1 - 13 - 1 - 1	Signature of Inventor	William KOKONASKI
Duc.	orginature of inventor.	William KOKONASKI
Date:	Signature of Inventor:	
		Charles WILLEY
Date:	Signature of Inventor:	Yongping WANG
		01 0
Date:	Signature of Inventor: _	Claudio DALLA LONGA

1878359_1.DOC

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventor(s): Ronald D. BLUM, Sophie ADAMS, David BOYD, Richard CLOMPUS, Mark GRAHAM, Joshua HADDOCK, Robert HALL, Venki IYER, William KOKONASKI, Charles WILLEY, Yongping WANG, and Claudio DALLA LONGA, hereby confirm the sale and assignment to PixelOptics, Inc., a corporation formed under the laws of Delaware, having an office and place of business at 5241 Valleypark Drive, Roanoke, Virginia 24019 (hereafter referred to as the "Assignee"), of his/her entire right, title and interest for the United States of America (as defined in 35 U.S.C. § 100), and throughout the world, including the right to sue for past infringement and to collect for all past, present and future damages, as follows,

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IN	WITNESS	WHEREOF,	executed	by	the	undersigned	inventor(s)	on	the	date
opposite l	nis/her name.									

Date:	Signature of Inventor: Ronald D. BLUM
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Appl. No. 13/916,480 Atty. Docket No. 3585,0040005

Date:	Signature of inventor;	
	Signature of Inventor: Sophie ADAMS	
Date:	Signature of Inventor:	
	Signature of Inventor: David BOYD	
Date:	Signature of Inventor:	
	Richard CLOMPUS	
Date:	Signature of Inventor:Mark GRAHAM	
	Mark GRAHAM	
Date:	Signature of Inventor: Joshua HADDOCK	
	Joshua HADDOCK	
Date:	Signature of Inventor:Robert HALL	
	Robert HALL	
Date:	Signature of Inventor:Venki IYER	
	Venki IYER	
Date:	Signature of Inventor:	
(A Cham	William KOKONASKI	
Date: 196 Jan 2015	Signature of Inventor: Charles WILLEY	Å.
	Charles WILLEY	2
Date:	Signature of Inventor: Yongping WANG	
	Yongping WANG	
Date:	Signature of Inventor:	
	Claudio DALLA LONGA	

Page 3 of 3

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