### 504389544 05/31/2017

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 EPAS ID: PAT4436241

Stylesheet Version v1.2

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Hsin-Chia Chen	05/26/2017
Sen-Huang Huang	05/26/2017
Wei-Chung Wang	05/26/2017
Chao-Chien Huang	05/26/2017
Ting-Yang Chang	05/26/2017
Chun-Wei Chen	05/26/2017

#### **RECEIVING PARTY DATA**

Name:	PixArt Imaging Inc.
Street Address:	5F, No. 5, Innovation Road I, Science-Based Industrial Park
City:	Hsin-Chu City
State/Country:	TAIWAN

### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	15609023

### **CORRESPONDENCE DATA**

**Fax Number:** (703)997-4517

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:** 3027291562

Email: Patent.admin.uspto.cr@naipo.com

Correspondent Name: WINSTON HSU

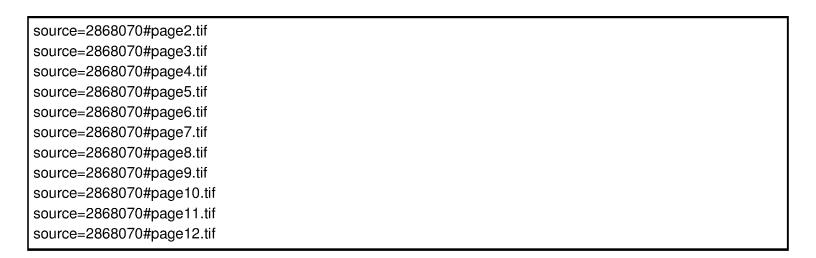
Address Line 1: 5F., NO.389, FUHE RD., YONGHE DIST.,

Address Line 4: NEW TAIPEI CITY, TAIWAN

ATTORNEY DOCKET NUMBER:	PIIP0387USA
NAME OF SUBMITTER:	SIBYL YU
SIGNATURE:	/SIBYL YU/
DATE SIGNED:	05/31/2017

**Total Attachments: 12** source=2868070#page1.tif

PATENT 504389544 REEL: 042534 FRAME: 0461



PATENT REEL: 042534 FRAME: 0462

# Title of Invention: OPTICAL FLOW SENSOR, METHODS, REMOTE CONTROLLER DEVICE, AND ROTATABLE ELECTRONIC DEVICE

As the below named inventor, I herel This declaration is directed to:	والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة			
This deciaration is directed to:	by declare that:			
☑ The attached application, or				
□ United States application nur	mber	filed o	n	, or
□ PCT International application	number	file	d on	
The above-identified application was	made or authorized to	be made by me.		-
I believe that I am the original invento application.	or or an original joint i	ventor of a claimed	l invention in t	he:
I hereby acknowledge that any willful under18 U.S.C. 1001 by fine or impri	I false statement made isonment of not more	in this declaration than five (5) years,	is punishable or both.	
In consideration of the payment by	PixArt Imaging In	c.	having a pos	tal address of
5F, No. 5, Innovation Road I, S	Science-Based Inc	lustrial Park, Hs	in-Chu City	300, Talwan,
(referred to as "ASSIGNEE"below) to acknowledged, andfor other good ar	o I of the sum of One I nd valuable considerat	Dollar (\$ 1,00), the lion.	eceipt of whic	h is hereby
I hereby sell, assign and transfer to the entire right, title and interest in a invention as above-identified application by the above application o substitutes, or extensions thereof, at	nd to any and all impro ation and, in and to, all r'any continuations, or nd as to Letters Paten	ovements which are Letters Patent to b onlinuation-in-part, t any reissue or re-	e disclosed in e obtained for divisions, rene examination to	the said ewals, nereof.
I hereby covenant that no assignme entered into which would conflict with		encumbrance has	been or will b	e made or
I further covenant that ASSIGNEE wand documents relating to said inveknown and accessible to I and will to related thereto and will promptly exe	ntion and said Letters estify as to the same in	Patent and legal ed any interference,	μίναlents as r litigation proce	nay be
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NPO#PII-P0387-USA:0

CUST#PLX-US-1314

PATENT REEL: 042534 FRAME: 0463

LEGAL NAME OF INVENTOR(ASSIGNOR)

Inventor:

Hsin-Chia Chen

hia Chan

Date:

MAY 2 6 2017

Signature:

Page 2 of 12

F#NPO-P0002E-US1201 DSB0-106U012041

NPO#PII-P0387-USA:0 CUST#PIX-US-1314

> PATENT REEL: 042534 FRAME: 0464

### Title of Invention:

OPTICAL FLOW SENSOR, METHODS, REMOTE CONTROLLER DEVICE, AND ROTATABLE ELECTRONIC DEVICE

As the below named inventor, I herel This declaration is directed to:	by declare that:		
☑ The attached application, or			
☐ United States application nur	mber	filed on	, or
□ PCT international application	number	filed on	
The above-identified application was	made or authorized to be mad	e by me.	
l believe that I am the original invent application.	or or an original joint inventor o	f a claimed invention in the	
l hereby acknowledge that any willfu under18 U.S.C. 1001 by fine or impr			
In consideration of the payment by	PixArt Imaging Inc.	having a postal	address of
5F, No. 5, Innovation Road I, S	Science-Based Industrial	Park, Hsin-Chu City 30	00, Taiwan,
(referred to as "ASSIGNEE"below) to acknowledged, andfor other good ar		1.00), the receipt of which is	s hereby
I hereby sell, assign and transfer to a the entire right, title and interest in a invention as above-identified applica- invention by the above application o substitutes, or extensions thereof, an	nd to any and all improvements ttion and, in and to, all Letters F r any continuations, continuatio	s which are disclosed in the Patent to be obtained for sai n-in-part, divisions, renewa	id Is,
I hereby covenant that no assignme entered into which would conflict wit	nt, sale, agreement or encumb h this assignment;	rance has been or will be m	ade or
I further covenant that ASSIGNEE wand documents relating to said inverse known and accessible to I and will to related thereto and will promptly exercise.	ntion and said Letters Patent are estify as to the same in any inte	nd legal equivalents as may erference, litigation proceedi	be
representatives any and all papers, maintain, issue and enforce said ap equivalents thereof which may be no IN WINTNESS WHEREOF, I have h	plication, said invention and sa ecessary or desirable to carry o	id Letters Patent and said out the proposes thereof.	ate of signing)
Note: An application data sheet (PT inventive entity, must accompany the			

Page 3 of 12

NPO#PII-P0387-USA:0 CUST#PIX-US-1314

LEGAL NAME OF INVENTOR(ASSIGNOR)						
Inventor:	Sen-Huang Huang	Date:	MAY 2 6 2017			
Signature:	- The surenty.	fumly				

Page 4 of 12

### Title of Invention:

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I hereby acknowledge that any willful under18 U.S.C. 1001 by fine or impri	I false statement made in this de sonment of not more than five (	eclaration is punishable 5) years, or both.	
In consideration of the payment by	PixArt Imaging Inc.	having a po	stal address of
5F, No. 5, Innovation Road I, S R.O.C.	Science-Based Industrial I	Park, Hsin-Chu Cit	y 300, Taiwan,
(referred to as "ASSIGNEE"below) to acknowledged, andfor other good an	o I of the sum of One Dollar (\$ 1 d valuable consideration.	.00), the receipt of whi	ch is hereby
I hereby sell, assign and transfer to A the entire right, title and interest in ar invention as above-identified applica invention by the above application or substitutes, or extensions thereof, ar	nd to any and all improvements tion and, in and to, all Letters Pa any continuations, continuation	which are disclosed in atent to be obtained fo n-in-part, divisions, ren	the r said ewals,
I hereby covenant that no assignment entered into which would conflict with		ance has been or will b	e made or
I further covenant that ASSIGNEE w and documents relating to said inver known and accessible to I and will te related thereto and will promptly exe	ntion and said Letters Patent and estify as to the same in any inter	d legal equivalents as ference, litigation proc	may be
representatives any and all papers, i maintain, issue and enforce said app equivalents thereof which may be no IN WINTNESS WHEREOF, I have h	plication, said invention and said ecessary or desirable to carry or	Letters Patent and sa	
Note: An application data sheet (PTo inventive entity, must accompany this			

Page 5 of 12

NPO#PII-P0387-USA:0 CUST#PIX-US-1314

Inventor: Wei-Chung Wang

Signature: Wei-Chung Wang

Date: MAY 2 6 2017

Page 6 of 12

### Title of Invention:

OPTICAL FLOW SENSOR, METHODS, REMOTE CONTROLLER DEVICE, AND ROTATABLE ELECTRONIC DEVICE

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The above-identified application was	made or authorized to	be made by me.	
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In consideration of the payment by	PixArt Imaging Inc	hav	ing a postal address of
5F, No. 5, Innovation Road I, 8 R.O.C.	Science-Based Indu	strial Park, Hsin-C	thu City 300, Taiwan,
(referred to as "ASSIGNEE"below) to acknowledged, andfor other good are	o I of the sum of One Do nd valuable consideratio	ollar (\$ 1.00), the receip n.	ot of which is hereby
I hereby sell, assign and transfer to a the entire right, title and interest in a invention as above-identified applica- invention by the above application o substitutes, or extensions thereof, an	nd to any and all improv ation and, in and to, all L r any continuations, con	ements which are disc etters Patent to be obt tinuation-in-part, divisi	losed in the ained for said ons, renewals,
I hereby covenant that no assignme entered into which would conflict wit	nt, sale, agreement or e h this assignment;	ncumbrance has been	or will be made or
I further covenant that ASSIGNEE wand documents relating to said inverse known and accessible to I and will to related thereto and will promptly exercise.	ntion and said Letters Pa estify as to the same in a	atent and legal equival any interference, litigat	ents as may be
representatives any and all papers, maintain, issue and enforce said app equivalents thereof which may be no IN WINTNESS WHEREOF, I have h	plication, said invention a accessary or desirable to	and said Letters Paten carry out the proposes	t and said s thereof.
Note: An application data sheet (PT inventive entity, must accompany th			

Page 7 of 12

NPO#PII-P0387-USA:0 CUST#PIX-US-1314

LEGAL NA	ME OF INVENTOR(ASSIGNOR)			
Inventor:	Chao-Chien Huang	Date:	MAY 2 6 2017	
Signature:	Chao-Chien Husny			
	1			

Page 8 of 12

### Title of Invention:

OPTICAL FLOW SENSOR, METHODS, REMOTE CONTROLLER DEVICE, AND ROTATABLE ELECTRONIC DEVICE

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Note: An application data sheet (PT inventive entity, must accompany the	O/SB/14 or equivalent), i is form. Use this form for	ncluding naming t each additional in	he entire ventor.	

Page 9 of 12

NPO#PII-P0387-USA:0 CUST#PIX-US-1314

LEGAL NA	AL NAME OF INVENTOR(ASSIGNOR)			
Inventor:	Ting-Yang Chang	Date:	MAY 2 6 2017	
Signature:	Jing-yang Chang	· · · · · · · · · · · · · · · · · · ·		

Page 10 of 12

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(referred to as "ASSIGNEE"below) to I of the sum of One Doll acknowledged, andfor other good and valuable consideration	ar (\$ 1.00), the receipt of which is hereby
I hereby sell, assign and transfer to ASSIGNEE and the succe the entire right, title and interest in and to any and all improve invention as above-identified application and, in and to, all Le invention by the above application or any continuations, continuations, continuations, continuations, and as to Letters Patent and	ments which are disclosed in the tters Patent to be obtained for said
annauthreat of extensions mercol and as to reffers I dicite di	ny relissue or re-examination thereof.
I hereby covenant that no assignment, sale, agreement or en	ny relissue or re-examination thereof.
I hereby covenant that no assignment, sale, agreement or en- entered into which would conflict with this assignment; I further covenant that ASSIGNEE will, upon its request, be p	ny relssue or re-examination thereof.  cumbrance has been or will be made or  rovided promptly with all pertinent facts tent and legal equivalents as may be ny interference, litigation proceeding
I hereby covenant that no assignment, sale, agreement or entered into which would conflict with this assignment;  I further covenant that ASSIGNEE will, upon its request, be pland documents relating to said invention and said Letters Patknown and accessible to I and will testify as to the same in an	ny reissue or re-examination thereof.  cumbrance has been or will be made or  rovided promptly with all pertinent facts tent and legal equivalents as may be ny interference, litigation proceeding GNEE or its legal required to apply for; obtain, and said Letters Patent and said carry out the proposes thereof.
I hereby covenant that no assignment, sale, agreement or entered into which would conflict with this assignment;  I further covenant that ASSIGNEE will, upon its request, be present documents relating to said invention and said Letters Patknown and accessible to I and will testify as to the same in an related thereto and will promptly execute and deliver to ASSIGNEE will, upon its request, be presentatives any and all papers, instruments or affidavits maintain, issue and enforce said application, said invention a equivalents thereof which may be necessary or desirable to contents.	ny relssue or re-examination thereof.  cumbrance has been or will be made or rovided promptly with all pertinent facts tent and legal equivalents as may be ny interference, litigation proceeding GNEE or its legal required to apply for; obtain, and said Letters Patent and said carry out the proposes thereof, all this MAY 2 6 2017 (Date of signirectuding naming the entire
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Page 11 of 12

F#NPO-P0002E-US1201 DSB0-106U012041

NPO#PII-P0387-USA:0 CUST#PIX-US-1314

LEGAL NAME OF INVENTOR (ASSIGNOR)

Inventor:

Chun-Wei Chen

Date:

MAY 26 2017

Signature:

Page 12 of 12

F#NPO-P0002E-U\$1201 D\$B0-106U012041

PATENT REEL: 042534 FRAME: 0474

RECORDED: 05/31/2017

NPO#PII-P0387-USA:0

CUST#PIX-US-1314