PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4350561

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HUSHAN CUI	03/17/2017
JINJUAN XIANG	03/17/2017
XIAOBIN HE	03/17/2017
TAO YANG	03/17/2017
JUNFENG LI	03/17/2017
CHAO ZHAO	03/17/2017

RECEIVING PARTY DATA

Name:	INSTITUTE OF MICROELECTRONICS, CHINESE ACADEMY OF SCIENCES
Street Address:	NO. 3 BEITUCHENG WEST ROAD
City:	CHAOYANG DISTRICT, BEIJING
State/Country:	CHINA
Postal Code:	100029

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15477191

CORRESPONDENCE DATA

Fax Number:

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.

Email: patentdc@goodwinlaw.com

Correspondent Name: GOODWIN

Address Line 1:901 NEW YORK AVENUEAddress Line 4:WASHINGTON, D.C. 20001

ATTORNEY DOCKET NUMBER:	IME-042
NAME OF SUBMITTER:	CE LI
SIGNATURE:	/CE LI/
DATE SIGNED:	04/03/2017

Total Attachments: 8

source=Executed Assignment#page1.tif	
source=Executed Assignment#page2.tif	
source=Executed Assignment#page3.tif	
source=Executed Assignment#page4.tif	
source=Executed Assignment#page5.tif	
source=Executed Assignment#page6.tif	
source=Executed Assignment#page7.tif	
source=Executed Assignment#page8.tif	
0 1 0	

ASSIGNMENT

WHEREAS, We/I, Hushan CUI (citizen of China), residing at No. 3 Beitucheng West Road, Chaoyang District Beijing 100029, P. R., China; Jinjuan XIANG (citizen of China), residing at No. 3 Beitucheng West Road, Chaoyang District, Beijing 100029, P.R., China; Xiaobin HE (citizen of China), residing at No. 3 Beitucheng West Road, Chaoyang District, Beijing 100029, P.R., China; Tao YANG (citizen of China), residing at No. 3 Beitucheng West Road, Chaoyang District, Beijing 100029, P.R., China; Junfeng LI (citizen of China), residing at No. 3 Beitucheng West Road, Chaoyang District, Beijing 100029, P.R., China; and Chao ZHAO (citizen of Belgium), residing at 276 Platte lostraat, Kessel-lo B-3010, Belgium, have invented certain new and useful improvements in and to the subject matter of:

METHOD OF MONOLITHIC INTEGRATION OF HYPERSPECTRAL IMAGE SENSOR

described in an application for United States Letters Patent, filed on <u>April 3, 2017</u>, and accorded Application No. <u>15477191</u>, which claims priority to Chinese App. No. <u>201610214392.0</u>, filed on <u>April 7, 2016</u>;

AND, WHEREAS, INSTITUTE OF MICROELECTRONICS, CHINESE ACADEMY OF SCIENCES, organized under the laws of China, having a place of business located at No. 3 Beitucheng West Road, Chaoyang District, Beijing 100029, China, (hereinafter "ASSIGNEE"), is desirous of acquiring certain rights to the improvements and under the application;

NOW, THEREFORE, in consideration of good and valuable consideration, receipt of which is hereby acknowledged, We/I do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, our/my entire right, title and interest in and throughout the United States of America (including its territories and dependencies) and all countries foreign thereto in and to said improvements, said United States application, any other United States applications, including provisional, divisional, renewal, substitute, continuation, reexamination and reissue applications, based in whole or in part on said United States application or in whole or in part on said improvements, any foreign applications, including international and regional applications, based in whole or in part on any of the aforesaid United States applications or in whole or in part on said improvements, and in and to any and all letters patent, including extensions thereof, of any country which have been or may be granted on any of the aforesaid applications or on said improvements or any parts thereof;

AND We/I hereby authorize and request our/my agents, Goodwin Procter LLP, whose address is 901 New York Ave., N.W.; Washington, DC 20001, to insert hereon any identification necessary or desirable for recordation of this document, including the filing date and application number of said application when known.

AND We/I hereby agree for ourselves/myself and our/my heirs, executors and administrators to execute without further consideration any further documents and instruments which may be necessary, lawful and proper in the prosecution of said above-referenced application or in the preparation or prosecution of any continuing, substitute, divisional, renewal, reexamination or reissue application or in any amendments, extensions or interference

PATENT APPLICATION CLIENT REF. NO. CP0016-01-0060

proceedings, or other applications for patents of any region or country, that may be necessary to secure to ASSIGNEE its interest and title in and to said improvements or any parts thereof, and in and to said several patents or any of them;

AND We/I hereby covenant for ourselves/myself and our/my legal representatives, and agree with said ASSIGNEE, its successors and assigns, that We/I have granted no right or license to make, use, sell or offer to sell said improvements, to anyone except said ASSIGNEE, that prior to the execution of this deed, our/my right, title and interest in said improvements had not been otherwise encumbered, and that We/I have not and will not execute any instrument in conflict therewith;

AND We/I do hereby authorize and request the Director of the United States Patent and Trademark Office to issue any and all letters patent which may be granted upon said United States applications, or upon said improvements or any parts thereof when granted, to said ASSIGNEE;

AND I hereby declare:

- a) The above-identified application was made or authorized to be made by me.
- b) I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.
- c) 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.

IN WITNESS WHEREOF, We/I have hereunto set our/my hands and seals.

[signatures start on next page]

PATENT APPLICATION CLIENT REF. No. CP0016-01-0060

Date		Ĩ	Iushan Cui	4
appeared Hush	an Cui, to me k	mown and know	wn to me to be the	, 2017, before me personall person of that name, who signe to be of his free act and deed.
; ;	* * *	s A	Witnessed t	y <u>Fan YANG</u> (Signature)
У — — — — — — — — — — — — — — — — — — —	et k		8	(Print Name) Yang
9 	4 8	÷	Witnessed b	oy Zhoner Ja- (Signature)
e v	-0	yes a	8	Zhangping Far

017 3月 17	1:47 HP Fax	53	95:65	页 4	70	* ×
	e	10 to	et et	totake again to	¢.	
		* **	4	e k	e.	9 V 9
		×	5.	6 3c	V	i de la companya de l
, , , , , , , , , , , , , , , , , , ,	W 6 2 10 10		: :	. 587	* 6	en e
,	7 () () () () () () () () () (y Maria Barana Maria Maria Maria Maria	ैं क क			ENT APPLICATION CP0016-01-0060
Į.	e Na	er William	::	and a gradient and a second and		
	and the second s	a de la companya de l	:	and the second s	e e e e e e e e e e e e e e e e e e e	
. · ·	3/1	7/2017		Jiguan Xian	Ą	2 ° ₹
43	Date			Jinjuan Xiang	i kapi	**************************************
	,	34			xi	8 8 8 7 7 8
4		8	81 g	% 		* ,
w	appeared Jiz	On this/_7 Juan Xiang, to n	day of the known as	March ad known to me to , and acknowledged	, 2017, before the person of	that name, who
	deed.	caten me totekomi	k manameni	, min accinomication	i ine sunie 10 de c	I his ifee act and
231		St. B. C. St. C.	- R -e- s.			7. 7.
		e 6	•	9		
				Witnessed	by For	yan.
		\$- -			(Signature)	J
					Fan	YANG
e e		ę c	¥!	w · · · · · · · · · · · · · · · · · · ·	(Print Name)	
*		94	9	34 N	3. M	· · · · · · · · · · · · · · · · · · ·
		1000 1100 - W	6	Witnessed	by Sherry	~ fa~
				Williegged	(Signature)	
		er i	W.		The second second	ira Fan
3 *	1	: : S	**.	A A A A A A A A A A A A A A A A A A A	Zheng (Print Name)	
		* *	g 4	t	(Timi ivaine)	
i is w		5				* *
e de la companya de l	*			*	× .	•
	<i>,</i> [file.	4. 290		A.	* * *
			\$ a 	**************************************	*	164 5
v			2.	*		
e sa			1.	8		e M
A		÷		4	8	
. 98 		₹ ·		ik. V	N. 90	ė.
*	* 34 s				4	業
ne ne		.4	÷.		to the state of th	•
**	12	e.				790
9		v	21	5-		* ***
		8		**	W and the second	
3		*		٠	S .	
					9	4

CLIENT REF. NO. CP0016-01-0060

Date

On this 17 th day of March, 2017, before me personally appeared Xiaobin He, to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and acknowledged the same to be of his free act and deed.

Witnessed by $\frac{F \otimes n}{\text{(Signature)}}$

Witnessed by

7 3月 17 1:	48 HP Fax	:			页 6				
	$a = 8^{3}$	8							
-	6		W _i		¥.				
		8		,			3a - 46		25.
540	30	4		49	ē.				. ₹*
		7			by a comp	15 ST	Sec. 27	register.	, k
	3. 36			*			I Client Ref.		PLICATION 16-01-0060
8 .			20		g r			21	
		9 ×		4,	e e e	4 4			78
52 B	ŵ	7 . - 50: - 4:54	6 544	. 5 . *	-r .	. √ .):):	
	` ,	117 /20	47	-60	la				
	Date		and a	ý.	Tao Y	ang U			
÷ +				15	R.				d de
÷ .					*	4	2.		
		On this	7	the same	of	ar d	2017 15	ofome ma	merennally
	annaarar	auu uv t was Vasti	o me kı	uay	known to t	M// ne to be the p		auro mo friame u	personany Ana sioned
	appoates and seak	ed the foregoin	no instri	iment an	d acknowled	lged the same	to be of his	free act a	nd deed.
								A-10-10-10-10-10-10-10-10-10-10-10-10-10-	
			ŧ	۶.					
46 ·		w w				and the second	C.	. 10.	ist Nachman
*	·	14.4	*)-			Witnessed by	/	in Ya	27
							(Signature)	1
5 X Y Z		š: .		5 R	· .		Fo	m Y	ING
X		48					(Print Na	me)	
					2.		47 3 313 3 3 463	us)	
	il.			a	à.	e	-	s. 1	7
1	43	4 4				Witnessed by	,	m-	fa-
		\$ 140	42			and the second of the second o	(Signatur	2)	:
ļ.	v 34		- A	35	200				-1 ex
	9	A .					Zhengi		ar-
	v. 4	9			54		(Print Na	me)	*
	ė.			St.	# "	. 5.	3		
i i					™ o		5 6		
di					4				
# 1 N		er pro		v		¥:			e **
	<i>i</i>	9	is .						•
7 8		5							
ACC	v.							3 7	
								14	
) e 8							
	10) 		ţ.		26	; k		*,
	12	9 6 8 7	n	ţ.		2.	К		4.
	w.		8			8	8 8 8		4,
		30 Sec. 13	8 .a. .b.			× ×	8 8 3		a.
			8			% %	# # # # # # # # # # # # # # # # # # #	e enge	4
			8			% % 8	# 8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Treated to the second s	
			8			% * *	# # # # # # # # # # # # # # # # # # #		5
			8		w.	% 8 2	# # # # # # # # # # # # # # # # # # #		5
			* *	*	w.	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	# # # # # # # # # # # # # # # # # # #		is the second se
			* *		er K	% 8 2			х.
			* *	*	** *	% 8 2	# 39 % ***		S.
			* *	*		% 8 2			is the second se
			* *	*	* * 6	% 8 2			K.
			* *	*	** ** 6	% 8 2			e e

3月 17	1:49 HP 9	ax	i sa ka k		页 7	5 ₄		e g	p.	De .
3 1	į.		3	:: •	· · · · · · · · · · · · · · · · · · ·	÷ ,				
	* 3		ř.	** **		5, 5,	36 91	* *	ř	
	· · · · · · · · · · · · · · · · · · ·			and the second	.51	e di Colonia		.4	e.	5 6 3
	**************************************				and the second of the second o	a 1871 in 1871 y Jacquetae	CLURNT		APPLICATIO 0016-01-00	
* .									2222	~~
				The State of the S	gradiji galekal Gradiji galekal	j		2 N	6 4 4 8 B	3. 2.
			· ·		, jar	7¢4		or or or or	5 0 v	5
7		117 / 0	<u>to//</u>	5 3	-					- 4.
	Date		gr	× **	Junfer	ig Li			y'a .	R
N.		in Alberta The State of the Sta	420		ತಿ ಕ ಕರೆತ್ ಜನ್	ed a	esser y	61 8	Ð	
		On	this	M day o	F N	ard	201	7. hefore n	ne personal	Tv.
	appeare	xi Junfeng	Li, to me	known and .	known to	me to be th	e person o	f that name	, who sign	ed
	and sea	iled the fore	going instr	ument, and	acknowled	iged the sa	ne to be of	his free ac	t and deed.	
	e.	te 20		X 0	e	w.*		52		
	, A 5.	S 2	f f	e .		en e	E	. V	wadi	: :
a s		1. W - 4.2. E - 1949	₽ 4 *	4		Witnessec	Sien	om 1 a ature)		3
· ·			4	s di			X	r 1	/ a a	
,44			6 °	60	de C		Drint	Fan) Name)	ANOT	
, , , <u>, , , , , , , , , , , , , , , , </u>		* 18 8 4 4 A		32 69 27	54 AB		67 3 1801	1 seme?	9	
e v		* a				ingeritäri.	>2	a a s and an a	Ta_	4
687		er er	e e E g	ei.	Fara .	Witnessec	l by <u>//</u> (Sign			
			4	4	* F *	ě	3.0	20	For	
6 5 5		en August Si		a F				Name)	1 ~~4~	
Sec.	\$			ا اگار خود	ag ¹	e.	(4 4 3334	reams)	**.	
ar i s		A Company	•		2	Ser.	y.	:# :-		*
i i i	N C	PER O	. 1965 3	¥ **	7 (9) 2 (9)	No:			50 50 50 50 50 50 50 50 50 50 50 50 50 5	
7 F	1, .	1 4 4 1 4 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1		**				wed Wij	*	2
			1 1	e e e	9	9		<i>S</i> :		
- 3		n in de la secondario de La secondario de la second		A.	- July 1	*	<i>r</i>	\$t		
8 P		* *	* . *	3		*		2. 21		
<i>\$</i> 1			e eg	i	195	*	9	· *	:	
- 49 - 19 - 17		d well			*				9 ⁶ *	
			* , *	La Company		9,	rer.	4	.6	
3 - 49 . 18		* ***	grand and the	*	,		-5			
x		þ.	and e		; 	13				
14				32						
4		e								
4		a (1)	9		2					
÷		*	*		*		ě		· A	
	b b	G.				58				2

						38
2017 3月 17 1:50	HP Fax		页 8			
1		- •		•		8
			• •		,	,
			* , *			
			•			
, `			See is	٠. دي د د دي	TENT APPLICATION	, . İ
	· · · · · · · · · · · · · · · · · · ·			Ci nace Rue Me	cent Application 5. CP0016-01-0060	
				enonemias Pormi, Také	v. Cx 00.10-01-0000	•
			1	: . ₽:		*,
			A)	(11/0).	•	
	3/17/2017			I I I	<i>,</i>	
		•		. 1		
D	ate		Chao Zhao		A STATE OF THE PERSON OF THE P	
•				* n		
	Our Mile	17 1 3	M	mm mare as an		`
	on one	17 M day of		2017, befo	re me personally	
	ppeared Chao Zhao, to nd scaled the foregoing	ro weren proven axi e shirtak 1971k	CONTRACTOR SERVICES AND	m norman an mari	ROUG WIND SIEDEO	
. 444	to sessor ore rerestoris	, instrument, and ac	micianionSon mio 2911	me to or of the ile	e act and deed.	
•					•	
<u> </u>				, 00*	1 e' v	
			Witnessed	by Fai	n VAN/s	
			• •	(Signature)	anne ann an air an Ann an	
	,			9004	YANG	
	•	7	•	Fou	* YANG	
			9	(Print Name)	
			•			
			, El		7	
· · ·			Witnessed		1	
-				(Signature)	A Company of the Comp	
	· · · · · · · · · · · · · · · · · · ·		* *	7/20000	ing .Far	
			i.			
				(Print Name)	
			• • •			
		,				•
				•		•
	***	•		ř		
	*		•	•		
				N	•	
	· · · · · · · · · · · · · · · · · · ·					
	•	•	•	•	•	
-		и				
		· *			· ·	
		•		•	•	
				• • •	•	
		,			t w i	
		-		,		
	,	•	• •	4		
			, ,			
		·				
		ū				
		• :			•	
						•
				•		
			8		·	•
1		**	, "			
				;		
•						
		•		and the second		
.			* · · · · · · · · · · · · · · · · · · ·		•	
***************************************	***************************************					