

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT4570231

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
YAOWU MO	08/18/2017
WEIJIAN MA	08/17/2017
ZEXU SHAO	08/18/2017
CHEN XU	08/18/2017
ZHENGMIN ZHANG	08/18/2017
RECEIVING PARTY DATA	
Name:	SMARTSENS TECHNOLOGY (U.S.), INC.
Street Address:	NO. 900 YISHAN ROAD
Internal Address:	ROOM 1101, BUILDING A
City:	SHANGHAI
State/Country:	CHINA
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15678438
CORRESPONDENCE DATA	
Fax Number:	(800)949-0243
<i>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.</i>	
Phone:	800-949-0255
Email:	eric@karich.net
Correspondent Name:	ERIC KARICH
Address Line 1:	20 CRESTVIEW
Address Line 4:	ALISO VIEJO, CALIFORNIA 92656
NAME OF SUBMITTER:	ERIC KARICH
SIGNATURE:	/eric karich 41503/
DATE SIGNED:	08/29/2017
This document serves as an Oath/Declaration (37 CFR 1.63).	
Total Attachments: 10 source=Signed_Assign_Ma#page1.tif	

source=Signed_Assign_Ma#page2.tif
source=Signed_Assign_Mo#page1.tif
source=Signed_Assign_Mo#page2.tif
source=Signed_Assign_Shao#page1.tif
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source=Signed_Assign_Xu#page1.tif
source=Signed_Assign_Xu#page2.tif
source=Signed_Assign_Zhang#page1.tif
source=Signed_Assign_Zhang#page2.tif

Assignment of Invention and Patent Application

For good and valuable consideration the receipt and sufficiency of which is hereby acknowledged, Weijian Ma a citizen of China having a residence and post office address at Room 1101, Building A, No. 900 Yishan Road, Shanghai, China (hereinafter "Assignor"), hereby sells, assigns, transfers, and sets over unto SmartSens Technology (U.S.), Inc. having a place of business at Room 1101, Building A, No. 900 Yishan Road, Shanghai, China (hereinafter "Assignee"), one-hundred percent (100%) of Assignor's right, title and interest in and to the invention titled STACKED IMAGE SENSOR PIXEL CELL WITH DYNAMIC RANGE ENHANCEMENT AND SELECTABLE SHUTTER MODES AND IN-PIXEL CDS (hereinafter "Property") invented by Assignor. Co-inventors include Zexu Shao, Zhengmin Zhang, Chen Xu and Yaowu Mo. Patent filings for this invention have been made as follows (attorney is authorized to fill in numbers as they become available):

- Application number 15/678,438 _____, filed 08/16/2017 _____;
- Application number _____, filed _____;
- Application number _____, filed _____;
- Application number _____, filed _____.

This assignment includes all U.S. patent rights, including reissues, continuations, continuations-in-part, substitutes, divisions, designs, and other related applications. Assignor authorizes and requests that the Commissioner of Patents and Trademarks issue any patent(s) 100% to Assignee, to the full end of the term for which said patent may be granted, as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made. By this assignment, Assignor hereby warrants that to the best of his or her knowledge, he/she is the sole owner of the Property (subject to any rights of co-inventors described above), it is free of

encumbrances or licenses of any kind, the patent has not expired, and the patent is valid and fully enforceable to the best of Assignor's knowledge.

Assignor hereby further sells, assigns, transfers, and sets over unto Assignee Assignor's entire right, title and interest in and to said invention in each and every country foreign to the United States.

Assignor further convey to Assignee 100% of all priority rights resulting from the above-identified application for United States and foreign patents, and all rights to pursue past, present, and future infringement and collect all damages related thereto. Assignor agree to execute all papers, give any required testimony and perform other lawful acts, at Assignees expense, as Assignee may require to enable Assignee to perfect Assignee's interest in any resulting patent of the United States and countries foreign thereto, and to acquire, hold, enforce, convey, and uphold the validity of said patent and reissues and extensions thereof, and Assignee's interest therein.

In testimony whereof, Assignor hereby sets his/her hand and seal on the date below.

Assignor: Weijian Ma Date: 8/17/2017

Print name: Weijian Ma

Assignment of Invention and Patent Application

For good and valuable consideration the receipt and sufficiency of which is hereby acknowledged, Yaowu Mo a citizen of China having a residence and post office address at Room 1101, Building A, No. 900 Yishan Road, Shanghai, China (hereinafter "Assignor"), hereby sells, assigns, transfers, and sets over unto SmartSens Technology (U.S.), Inc. having a place of business at Room 1101, Building A, No. 900 Yishan Road, Shanghai, China (hereinafter "Assignee"), one-hundred percent (100%) of Assignor's right, title and interest in and to the invention titled STACKED IMAGE SENSOR PIXEL CELL WITH DYNAMIC RANGE ENHANCEMENT AND SELECTABLE SHUTTER MODES AND IN-PIXEL CDS (hereinafter "Property") invented by Assignor. Co-inventors include Zexu Shao, Weijian Ma, Zhengmin Zhang and Chen Xu. Patent filings for this invention have been made as follows (attorney is authorized to fill in numbers as they become available):

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In testimony whereof, Assignor hereby sets his/her hand and seal on the date below.

Assignor: Yaowu Mo Date: 8/12/2017
Print name: Yaowu Mo

Assignment of Invention and Patent Application

For good and valuable consideration the receipt and sufficiency of which is hereby acknowledged, **Zeru Shao** a citizen of China having a residence and post office address at Room 1101, Building A, No. 900 Yishan Road, Shanghai, China (hereinafter "Assignor"), hereby sells, assigns, transfers, and sets over unto **SmartSens Technology (U.S.), Inc.** having a place of business at Room 1101, Building A, No. 900 Yishan Road, Shanghai, China (hereinafter "Assignee"), one-hundred percent (100%) of Assignor's right, title and interest in and to the invention titled **STACKED IMAGE SENSOR PIXEL CELL WITH DYNAMIC RANGE ENHANCEMENT AND SELECTABLE SHUTTER MODES AND IN-PIXEL CDS** (hereinafter "Property") invented by Assignor. Co-inventors include, Yaowu Mo, Weijian Ma, Zhengmin Zhang and Chen Xu. Patent filings for this invention have been made as follows (attorney is authorized to fill in numbers as they become available):

Application number 15/678,438....., filed 08/16/2017.....;
Application number, filed,
Application number, filed,
Application number, filed

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In testimony whereof, Assignor hereby sets his/her hand and seal on the date below.

Assignor: Zexu Shao Date: 8/8/2017
Print name: Zexu Shao

Assignment of Invention and Patent Application

For good and valuable consideration the receipt and sufficiency of which is hereby acknowledged, **Chen Xu** a citizen of the United States having a residence and post office address at Room 1101, Building A, No. 900 Yishan Road, Shanghai, China (hereinafter "Assignor"), hereby sells, assigns, transfers, and sets over unto **SmartSens Technology (U.S.), Inc.** having a place of business at Room 1101, Building A, No. 900 Yishan Road, Shanghai, China (hereinafter "Assignee"), one-hundred percent (100%) of Assignor's right, title and interest in and to the invention titled **STACKED IMAGE SENSOR PIXEL CELL WITH DYNAMIC RANGE ENHANCEMENT AND SELECTABLE SHUTTER MODES AND IN-PIXEL CDS** (hereinafter "Property") invented by Assignor. Co-inventors include Zexu Shao, Weijian Ma, Zhengmin Zhang and Yaowu Mo. Patent filings for this invention have been made as follows (attorney is authorized to fill in numbers as they become available):

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- Application number _____, filed _____;
- Application number _____, filed _____;
- Application number _____, filed _____.

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In testimony whereof, Assignor hereby sets his/her hand and seal on the date below.

Assignor: Chen Xu Date: 8/12/2017

Print name: Chen Xu

Assignment of Invention and Patent Application

For good and valuable consideration the receipt and sufficiency of which is hereby acknowledged, Zhengmin Zhang a citizen of China having a residence and post office address at Room 1101, Building A, No. 900 Yishan Road, Shanghai, China (hereinafter "Assignor"), hereby sells, assigns, transfers, and sets over unto SmartSens Technology (U.S.), Inc. having a place of business at Room 1101, Building A, No. 900 Yishan Road, Shanghai, China (hereinafter "Assignee"), one-hundred percent (100%) of Assignor's right, title and interest in and to the invention titled STACKED IMAGE SENSOR PIXEL CELL WITH DYNAMIC RANGE ENHANCEMENT AND SELECTABLE SHUTTER MODES AND IN-PIXEL CDS (hereinafter "Property") invented by Assignor. Co-inventors include Zexu Shao, Weijian Ma, Chen Xu and Yaowu Mo. Patent filings for this invention have been made as follows (attorney is authorized to fill in numbers as they become available):

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- Application number _____, filed _____.

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In testimony whereof, Assignor hereby sets his/her hand and seal on the date below.

Assignor: Zhengmin Zhang Date: 8/19/2017
Print name: Zhengmin Zhang