PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4998255

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SHREE K. NAYAR	05/24/2018
DANIEL SIMS	05/31/2018
MIKHAIL FRIDBERG	04/04/2018

RECEIVING PARTY DATA

Name:	THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK	
Street Address:	535 WEST 116TH STREET	
Internal Address:	412 LOW MEMORIAL LIBRARY	
City:	NEW YORK	
State/Country:	NEW YORK	
Postal Code:	10027	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15538556

CORRESPONDENCE DATA

Fax Number: (212)931-8521

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: 2125098800

Email: info@byrnepoh.com MATTHEW T. BYRNE **Correspondent Name:**

Address Line 1: 11 BROADWAY **SUITE 760** Address Line 2:

Address Line 4: NEW YORK, NEW YORK 10004

ATTORNEY DOCKET NUMBER: 0315120.331-US2 **NAME OF SUBMITTER:** MATTHEW T. BYRNE **SIGNATURE:** /Matthew T Byrne/ **DATE SIGNED:** 06/08/2018

Total Attachments: 4 source=00192950#page1.tif

source=00192950#page2.tif source=00189984.PDF#page1.tif source=00189984.PDF#page2.tif

App. No.: PCT/US16/12509 Filed: 01/07/2016

ASSIGNMENT

WHEREAS, we, the undersigned ("the Assignors"), are the inventors of a certain new and useful invention and discovery entitled "CIRCUITS FOR SELF-POWERED IMAGE SENSORS" ("the Invention") for which a patent application was filed with the United States Patent and Trademark Office on January 7, 2016 as International Application Number PCT/US16/12509 ("the Application").

WHEREAS, The Trustees of Columbia University in the City of New York, existing under the laws of New York, having its principal office at 412 Low Memorial Library, 535 West 116th Street, New York, NY 10027, which together with its successors and assigns (collectively "the Assignee") is desirous of acquiring the title, rights, benefits, and privileges hereinafter recited.

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignors hereby assign to Assignee all of Assignors' rights, titles, and interests in and to the Invention, all improvements therein, the Application and all priority rights arising therefrom, and any applications and/or patents, and any reissues and extensions thereof, which issue in any country upon any patent applications which correspond with any of the following: the Application; any application that claims priority from the Application (including utility applications, divisionals, continuations, continuations-in-part, international applications, and/or foreign regional and/or national applications); any applications from which the Application claims priority (including provisional applications, non-provisional applications, international applications, foreign regional applications, and/or foreign national applications); or any application based in whole or in part on any of the foregoing.

Assignors agree that such Assignors and Assignors' heirs and legal representatives will, without further consideration, cooperate with Assignee in the prosecution of all of the above applications, execute, verify, acknowledge, and deliver all such further papers, including applications for patents and for reissues and extensions therefor, and instruments of assignment and transfer thereof, and will communicate any facts known to Assignors relating to the Invention, to obtain or maintain or enforce patents for the Invention and improvements therein in any and all countries and to vest title thereto in Assignee. Assignors further agree that such Assignors will, without further compensation to Assignors during the term of such Assignors' employment by Assignee and thereafter for reasonable compensation as determined by Assignee, perform such other acts as may be reasonably required when requested by Assignee, including attending depositions, preparing and executing declarations and affidavits and testifying as a witness, to obtain or maintain or enforce patents for the Invention and improvements therein in any and all countries and to vest title thereto in Assignee.

15 Lyndon Road Sharon, MA 02067

App. No.: PCT/US16/12509

Filed: 01/07/2016 I hereby represent and warrant that I have full power to make this assignment and that the rights, titles, and interests assigned are not encumbered by any grant, license, or right heretofore given. --- DocuSigned by: Date: _____ Shree K. Nayar 464 Riverside Drive Apt. 82 New York, NY 10027 I hereby represent and warrant that I have full power to make this assignment and that the rights, titles, and interests assigned are not encumbered by any grant, license, or right heretofore given. DocuSigned by: Daniel Sims 5/18/2018 2:56:43 PM PDT --46039161451641B Date: _____ Daniel Sims 1203 Green Hill Manor Drive Franklin Park, NJ 08823 I hereby represent and warrant that I have full power to make this assignment and that the rights, titles, and interests assigned are not encumbered by any grant, license, or right heretofore given. ~ DocuSigned by: Mikhail Fridberg ---- D9A2AC8C19DC467... Mikhail Fridberg

App. No.: PCT/US16/12509 Filed: 01/07/2016

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For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignors hereby assign to Assignee all of Assignors' rights, titles, and interests in and to the Invention, all improvements therein, the Application and all priority rights arising therefrom, and any applications and/or patents, and any reissues and extensions thereof, which issue in any country upon any patent applications which correspond with any of the following: the Application; any application that claims priority from the Application (including utility applications, divisionals, continuations, continuations-in-part, international applications, and/or foreign regional and/or national applications); any applications from which the Application claims priority (including provisional applications, non-provisional applications, international applications, foreign regional applications, and/or foreign national applications); or any application based in whole or in part on any of the foregoing.

Assignors agree that such Assignors and Assignors' heirs and legal representatives will, without further consideration, cooperate with Assignee in the prosecution of all of the above applications, execute, verify, acknowledge, and deliver all such further papers, including applications for patents and for reissues and extensions therefor, and instruments of assignment and transfer thereof, and will communicate any facts known to Assignors relating to the Invention, to obtain or maintain or enforce patents for the Invention and improvements therein in any and all countries and to vest title thereto in Assignee. Assignors further agree that such Assignors will, without further compensation to Assignors during the term of such Assignors' employment by Assignee and thereafter for reasonable compensation as determined by Assignee, perform such other acts as may be reasonably required when requested by Assignee, including attending depositions, preparing and executing declarations and affidavits and testifying as a witness, to obtain or maintain or enforce patents for the Invention and improvements therein in any and all countries and to vest title thereto in Assignee.

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Filed:

App. No.: PCT/US16/12509

01/07/2016

I hereby represent and warrant that I have full power to make this assignment and that the rights, titles, and interests assigned are not encumbered by any grant, license, or right heretofore given.		
Shree K. Nayar 464 Riverside Drive Apt. 82 New York, NY 10027	Date:	
I hereby represent and warrant that I have full power to make this assignment and that the rights, titles, and interests assigned are not encumbered by any grant, license, or right heretofore given.		
Daniel Sims Daniel Sims 1575 Anderson Road Apt. 214 McLean, VA 22102	Date: 5/31/2018 5:42:49 PM PDT	
I hereby represent and warrant that I have full power to make this assignment and that the rights, titles, and interests assigned are not encumbered by any grant, license, or right heretofore given.		
Mikhail Fridberg 15 Lyndon Road Sharon, MA 02067	Date:	

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