PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT3730870

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
EDWARD HARTLEY SARGENT	11/11/2014
GHADA KOLEILAT	11/12/2014
LARISSA LEVINA	11/11/2014

RECEIVING PARTY DATA

Name:	INVISAGE TECHNOLOGIES, INC.
Street Address:	990 HAMILTON AVENUE
City:	MENLO PARK
State/Country:	CALIFORNIA
Postal Code:	94025

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15018321

CORRESPONDENCE DATA

Fax Number: (612)339-3061

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: request@slwip.com
Correspondent Name: SCHWEGMAN LUNDBERG & WOESSNER, P.A.
Address Line 1: P.O. BOX 2938
Address Line 4: MINNEAPOLIS, MINNESOTA 55402

ATTORNEY DOCKET NUMBER:	3154.006US7
NAME OF SUBMITTER:	FARAH O'SULLIVAN
SIGNATURE:	/Farah O'sullivan/
DATE SIGNED:	02/08/2016

Total Attachments: 18
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ASSIGNMENT

WHEREAS, Edward Hartley Sargent, Ghada Koleilat and Larissa Levina (hereinafter the "Undersigned") have made one or more inventions and other subject matter (hereinafter collectively referred to as the "Invention") which are described in a patent application filed on August 11, 2014, which application was assigned US patent application serial number 14/456,214, and which is titled PHOTODETECTORS AND PHOTOVOLTAICS BASED ON SEMICONDUCTOR NANOCRYSTALS; which are described in a patent application filed on September 8, 2011, which application was assigned US application serial number 13/228,197, and which is titled PHOTODETECTORS AND PHOTOVOLTAICS BASED ON SEMICONDUCTOR NANOCRYSTALS; which are described in a patent application filed on April 20, 2009, which application was assigned US application serial number 12/426,854, and which is titled PHOTODETECTORS AND PHOTOVOLTAICS BASED ON SEMICONDUCTOR NANOCRYSTALS; which are described in a patent application filed on May 8, 2008, which application was assigned US application serial number 61/051,445, and which is titled Synthesis of CIGS Nanoparticles: Achieving Monodispersity, Crystallinity, and Phase-Purity; which are described in a patent application filed on April 28, 2008, which application was assigned US application serial number 61/048,453, and which is titled Efficient, Stable Infrared Photovoltaics Based on Solution-Cast Colloidal Quantum Dots; which are described in a patent application filed on April 18, 2008, which application was assigned US application serial number 61/046,379, and which is titled Materials, Systems and Methods for Optoelectronic Devices; which are described in a patent application filed on April 18, 2008, which application was assigned US application serial number 12/106,256, and which is titled MATERIALS, SYSTEMS AND METHODS FOR OPTOELECTRONIC DEVICES; which are described in a patent application filed on April 18, 2008, which application was assigned US application serial number 61/046,390, and which is titled Schottky-Quantum Dot Photovoltaics for Efficient Infrared Power Conversion; which are described in a patent application filed on February 13, 2008, which application was assigned US application serial number 61/028,481, and which is titled Smooth-morphology (< 1% roughness) ultrasensitive solution-processed photodetectors; which are described in a patent application filed on February 6, 2008, which application was assigned US application serial number 61/026,650, and which is titled Fast, Sensitive, Spectrally-Tunable Solution-Processed Photodetectors; which are described in a patent application filed on February 5, 2008, which application was assigned US application serial number 61/026,440, and which is titled Photoconductive photodetectors and method of controlling temporal response of photoconductive photodetectors via selective introduction of surface trap states; which are described in a patent application filed on September 5, 2007, which application was assigned US application serial number 60/970,211, and which is titled Sensitive low-dark-current photoconductive photodetectors; which are described in a patent application filed on July 9, 2007, which application was assigned US application serial number 60/958,846, and which is titled Devices with quantum dot films; which are described in a patent application filed on April 18, 2007, which application was assigned US application serial number 60/912,581, and which is titled DEVICES WITH QUANTUM DOT FILMS.

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency, and adequacy of which are hereby acknowledged by the Undersigned, the Undersigned do hereby irrevocably and unconditionally:

CONVEY, ASSIGN, AND TRANSFER to InVisage Technologies, Inc. (the "Assignee"), a corporation of the State of Delaware, having a place of business at 990 Hamilton Ave, Menlo Park, CA 94025, the Undersigned's entire right, title, and interest for the United States and all foreign countries and jurisdictions in and to:

the invention which is disclosed in the above-identified application or applications;

such application or applications, and all divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other applications for a patent or patents which have been or shall be filed in the United States (including all provisional and non-provisional applications), and in all foreign countries and jurisdictions based in whole or in part on any of such Invention (including any application for a utility model or an innovation patent application);

all original and reissued patents which have been or shall be issued in the United States and all foreign countries and jurisdictions based in whole or in part on any of such Invention;

including the right to claim priority to the above-identified patent application or applications in relation to subject matter based in whole or in part on the above-identified patent application or applications and any of the foregoing including the right to file foreign applications under the provisions of any convention or treaty;

and including the right to all causes of action, remedies, and other enforcement rights related to the above-identified application or applications, including without limitation the right to sue for past, present, or future infringement, misappropriation, or violation of any and all rights related to the above-identified patent application or applications and any of the foregoing, including the right to obtain and collect damages for past, present, or future infringement;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such Invention to the Assignee;

AUTHORIZE AND REQUEST that any attorney associated with U.S. Patent and Trademark Office (USPTO) Customer No. 21186 may (directly or through his/her designee) delete, insert, or alter any information related to the above-identified patent application or applications or any of the foregoing, after execution of this Assignment;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or shall be made to others by the Undersigned, and that the full right to convey the same as herein expressed is possessed by the Undersigned;

COVENANT, that when requested and without compensation, but at the expense of the Assignee, in order to carry out in good faith the intent and purpose of this Assignment, the Undersigned shall (1) execute all provisional, non-provisional, divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other patent applications for the Invention; (2) execute all rightful oaths,

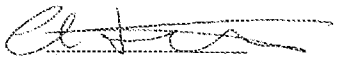
declarations, assignments, powers of attorney and other papers for the Invention; (3) communicate to the Assignee all facts known to the Undersigned relating to the Invention and the history thereof; (4) cooperate with the Assignee in any interference, reexamination, reissue, opposition, dispute, or litigation involving any of the applications or patents for the Invention; and (5) take such further actions as the Assignee shall reasonably consider necessary or desirable for vesting title to such Invention in the Assignee, or for securing, maintaining and enforcing proper patent protection for the Invention;

COVENANT, that should any provision of this agreement be held unenforceable by an authority of competent jurisdiction, such a ruling shall not affect the validity and enforceability of the remaining provisions. To the extent that any such provision is found to be unenforceable, the Undersigned, when requested and without compensation shall act in good faith to substitute for such provision a new provision with content and purpose as close as possible to the provision deemed unenforceable.

THIS AGREEMENT IS TO BE BINDING on the heirs, assigns, representatives, and successors of the Undersigned, and is to extend to the benefit of the successors, assigns, and nominees of the Assignee.

AGREED as of the date of my signature below:

Assignor:

(Signature): 

Name: **Edward Hartley Sargent**

City/State: **Toronto, Ontario**

Date: November 11, 2014

Assignor:

(Signature): _____

Name: **Ghada Koleilat**
City/State: **Toronto, Ontario**

Date: _____

Assignor:

(Signature): _____

Name: **Larissa Levina**
City/State: **Toronto, Ontario**

Date: _____

ASSIGNMENT

WHEREAS, Edward Hartley Sargent, Ghada Koleilat and Larissa Levina (hereinafter the "Undersigned") have made one or more inventions and other subject matter (hereinafter collectively referred to as the "Invention") which are described in a patent application filed on August 11, 2014, which application was assigned US patent application serial number 14/456,214, and which is titled PHOTODETECTORS AND PHOTOVOLTAICS BASED ON SEMICONDUCTOR NANOCRYSTALS; which are described in a patent application filed on September 8, 2011, which application was assigned US application serial number 13/228,197, and which is titled PHOTODETECTORS AND PHOTOVOLTAICS BASED ON SEMICONDUCTOR NANOCRYSTALS; which are described in a patent application filed on April 20, 2009, which application was assigned US application serial number 12/426,854, and which is titled PHOTODETECTORS AND PHOTOVOLTAICS BASED ON SEMICONDUCTOR NANOCRYSTALS; which are described in a patent application filed on May 8, 2008, which application was assigned US application serial number 61/051,445, and which is titled Synthesis of CIGS Nanoparticles: Achieving Monodispersity, Crystallinity, and Phase-Purity; which are described in a patent application filed on April 28, 2008, which application was assigned US application serial number 61/048,453, and which is titled Efficient, Stable Infrared Photovoltaics Based on Solution-Cast Colloidal Quantum Dots; which are described in a patent application filed on April 18, 2008, which application was assigned US application serial number 61/046,379, and which is titled Materials, Systems and Methods for Optoelectronic Devices; which are described in a patent application filed on April 18, 2008, which application was assigned US application serial number 12/106,256, and which is titled MATERIALS, SYSTEMS AND METHODS FOR OPTOELECTRONIC DEVICES; which are described in a patent application filed on April 18, 2008, which application was assigned US application serial number 61/046,390, and which is titled Schottky-Quantum Dot Photovoltaics for Efficient Infrared Power Conversion; which are described in a patent application filed on February 13, 2008, which application was assigned US application serial number 61/028,481, and which is titled Smooth-morphology (< 1% roughness) ultrasensitive solution-processed photodetectors; which are described in a patent application filed on February 6, 2008, which application was assigned US application serial number 61/026,650, and which is titled Fast, Sensitive, Spectrally-Tunable Solution-Processed Photodetectors; which are described in a patent application filed on February 5, 2008, which application was assigned US application serial number 61/026,440, and which is titled Photoconductive photodetectors and method of controlling temporal response of photoconductive photodetectors via selective introduction of surface trap states; which are described in a patent application filed on September 5, 2007, which application was assigned US application serial number 60/970,211, and which is titled Sensitive low-dark-current photoconductive photodetectors; which are described in a patent application filed on July 9, 2007, which application was assigned US application serial number 60/958,846, and which is titled Devices with quantum dot films; which are described in a patent application filed on April 18, 2007, which application was assigned US application serial number 60/912,581, and which is titled DEVICES WITH QUANTUM DOT FILMS.

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency, and adequacy of which are hereby acknowledged by the Undersigned, the Undersigned do hereby irrevocably and unconditionally:

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the Invention which is disclosed in the above-identified application or applications;

such application or applications, and all divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other applications for a patent or patents which have been or shall be filed in the United States (including all provisional and non-provisional applications), and in all foreign countries and jurisdictions based in whole or in part on any of such Invention (including any application for a utility model or an innovation patent application);

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and including the right to all causes of action, remedies, and other enforcement rights related to the above-identified application or applications, including without limitation the right to sue for past, present, or future infringement, misappropriation, or violation of any and all rights related to the above-identified patent application or applications and any of the foregoing, including the right to obtain and collect damages for past, present, or future infringement;

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AGREED as of the date of my signature below:

Assignor:

(Signature): _____

Name: **Edward Hartley Sargent**
City/State: **Toronto, Ontario**

Date: _____

Assignor:

(Signature): _____

Name: Ghada Koleilat

City/State: Toronto, Ontario

Date: 11/12/14

Assignor:

(Signature): _____

Name: **Larissa Levina**

City/State: **Toronto, Ontario**

Date: _____

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AGREED as of the date of my signature below:

Assignor:

(Signature): _____

Name: **Edward Hartley Sargent**
City/State: **Toronto, Ontario**

Date: _____

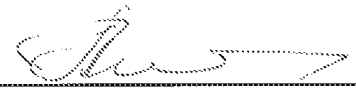
Assignor:

(Signature): _____

Name: **Ghada Koleilat**
City/State: **Toronto, Ontario**

Date: _____

Assignor:

(Signature): 

Name: **Larissa Levina**

City/State: **Toronto, Ontario**

Date: Nov 1, 2014