

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4458338

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
EDWARD SARGENT	09/23/2005
JASON CLIFFORD	09/23/2005
GERASIMOS KONSTANTATOS	09/23/2005
IAN HOWARD	09/23/2005
ETHAN KLEM	09/23/2005
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	UNIVERSITY OF TORONTO
<b>Street Address:</b>	SIMCOE HALL, ROOM 133S,
<b>Internal Address:</b>	27 KING'S COLLEGE CIRCLE
<b>City:</b>	TORONTO
<b>State/Country:</b>	CANADA
<b>Postal Code:</b>	M5S 1A1
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	13368747
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>	
<b>Email:</b>	request@slwip.com
<b>Correspondent Name:</b>	SCHWEGMAN LUNDBERG & WOESSNER, P.A.
<b>Address Line 1:</b>	P.O. BOX 2938
<b>Address Line 4:</b>	MINNEAPOLIS, MINNESOTA 55402
<b>ATTORNEY DOCKET NUMBER:</b>	3154.002US2
<b>NAME OF SUBMITTER:</b>	TAMERAE ROBINSON
<b>SIGNATURE:</b>	/Tamerae Robinson/
<b>DATE SIGNED:</b>	06/13/2017
<b>Total Attachments: 5</b>	
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RECORDATION FORM COVER SHEET  
PATENTS ONLY

Atty Ref/Docket No.: 3154.002US2

Patent and Trademark Office

To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Edward Sargent, Jason Clifford, Gerasimos  
Konstantatos, Ian Howard, Ethan Klem

Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other

Execution Date: September 23, 2005, September  
23, 2005, September 23, 2005, September 23, 2005,  
September 23, 2005,

2. Name and address of receiving party(ies):

Name: University of Toronto

Street Address: Simcoe Hall, Room 133S,  
27 King's College Circle

City: Toronto State: ON Zip: M5S 1A1

Country: Canada

Additional name(s) & address(es) attached? ☐ Yes  
☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

Serial No. 13/368,747

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence  
concerning document should be mailed:

Name: Bradley W. Scheer

Address:

Schwegman Lundberg & Woessner, P.A.  
P.O. Box 2938  
Minneapolis, MN 55402--0938

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$ 0.00

☐ Enclosed

☐ Authorized to be charged to deposit account  
19-0743

8. Please charge any additional fees or credit any over  
payments to our Deposit Account No.: 19-0743

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy  
of the original document.

Bradley W. Scheer/Reg. No. 47,059

Name of Person Signing

  
Signature

June 13, 2017

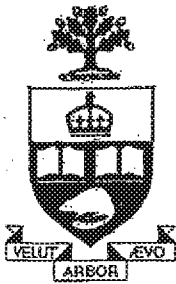
Date

Total number of pages including cover sheet: 5

Mail documents to be recorded with required cover sheet information to:

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Mail Stop Assignment Recordation Services  
P.O. Box 1450  
Alexandria, VA 22313-1450

PATENT  
REEL: 042697 FRAME: 0458



# University of Toronto

OFFICE OF THE VICE-PRESIDENT, RESEARCH AND ASSOCIATE PROVOST

## ASSIGNMENT OF RIGHTS TO THE UNIVERSITY OF TORONTO BY THE INVENTOR

In consideration of the sum of two dollars (\$2.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, **Edward Sargent, Jason Clifford, and their heirs, executors, administrators and assigns** (collectively the "Assignor") hereby sell, assign and transfer to The Governing Council of the University of Toronto, its successors and assigns (collectively the "Assignee") all right, title and interest which the Assignor now has or may hereafter have in an invention described as

**Efficient, High-detectivity Photodetectors Based on a Combination of Differently-treated Solution-processed Quantum Dots**

in Appendix A annexed hereto, (the "Invention")

including, without limitation, the right to apply for patents in Canada, the United States of America and any other country, the right to receive any letters patent that may be issued from any such applications, the right to have any letters patent that have been granted transferred into the name of the Assignee, and the right to sell, license or assign the Invention or the rights thereto.

The Assignor hereby releases the Assignee from any and all manner of claims and demands which the Assignor may now have or may in future have in respect of the Invention or in connection with the patenting, sale or licensing thereof.

Executed at Toronto, Ontario this 23<sup>rd</sup> day of SEPTEMBER, 2005.

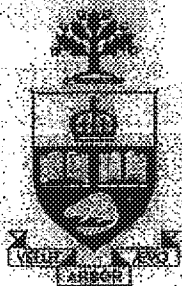
Witness

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\_\_\_\_\_  
\_\_\_\_\_

Inventors

  
\_\_\_\_\_  
Edward Sargent

  
\_\_\_\_\_  
Jason Clifford



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**Efficient, High-detectivity Photodetectors Based on a Combination of Two Types of Solution-processed Quantum Dots, Each Composed of a Distinct Semiconductor Material**

in Appendix A annexed hereto, (the "Invention")

including, without limitation, the right to apply for patents in Canada, the United States of America and any other country, the right to receive any letters patent that may be issued from any such applications, the right to have any letters patent that have been granted transferred into the name of the Assignee, and the right to sell, license or assign the Invention or the rights thereto.

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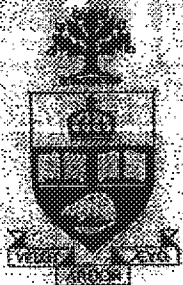
Executed at Toronto, Ontario this 23<sup>rd</sup> day of September, 2005

Witness

Inventors

Jason Clifford

Edward Sargent



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OFFICE OF THE VICE PRESIDENT, RESEARCH AND ASSOCIATE PROVOST

## ASSIGNMENT OF RIGHTS TO THE UNIVERSITY OF TORONTO BY THE INVENTOR

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### A Method of Sensitizing an Electronic Read-out Integrated Circuit into the Infrared Spectral Range Using Spin-coated Quantum Dot Nanocrystals

in Appendix A annexed hereto, (the "Invention")

including, without limitation, the right to apply for patents in Canada, the United States of America and any other country, the right to receive any letters patent that may be issued from any such applications, the right to have any letters patent that have been granted transferred into the name of the Assignee, and the right to sell, license or assign the Invention or the rights thereto.


The Assignor hereby releases the Assignee from any and all manner of claims and demands which the Assignor may now have or may in future have in respect of the Invention or in connection with the patenting, sale or licensing thereof.

Executed at Toronto, Ontario this 23<sup>rd</sup> day of SEPTEMBER, 2005.

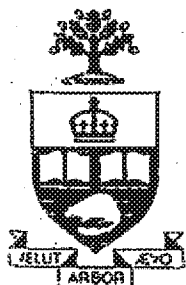
Witness

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\_\_\_\_\_

Inventors

  
Edward Sargent

  
Jason Clifford



# University of Toronto

OFFICE OF THE VICE-PRESIDENT, RESEARCH AND ASSOCIATE PROVOST

## ASSIGNMENT OF RIGHTS TO THE UNIVERSITY OF TORONTO BY THE INVENTOR

In consideration of the sum of two dollars (\$2.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Edward Sargent, Gerasimos Konstantatos, Ian Howard, Ethan Klem, and their heirs, executors, administrators and assigns (collectively the "Assignor") hereby sell, assign and transfer to The Governing Council of the University of Toronto, its successors and assigns (collectively the "Assignee") all right, title and interest which the Assignor now has or may hereafter have in an invention described as

**Efficient, High-detectivity Photodetectors Based on Solution-processed Quantum Dots with Subsequent Solution-phase and Vapour-phase Thermal Processing**

in Appendix A annexed hereto, (the "Invention")

including, without limitation, the right to apply for patents in Canada, the United States of America and any other country, the right to receive any letters patent that may be issued from any such applications, the right to have any letters patent that have been granted transferred into the name of the Assignee, and the right to sell, license or assign the Invention or the rights thereto.

The Assignor hereby releases the Assignee from any and all manner of claims and demands which the Assignor may now have or may in future have in respect of the Invention or in connection with the patenting, sale or licensing thereof.

Executed at Toronto, Ontario this 23<sup>rd</sup> day of SEPTEMBER, 2015.

Witness

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\_\_\_\_\_  
\_\_\_\_\_

Inventors

[Signature]  
Edward Sargent

[Signature]  
Gerasimos Konstantatos

[Signature]  
Ian Howard

[Signature]  
Ethan Klem

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PATENT

RECORDED: 06/13/2017

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