# 504411651 06/13/2017

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4458351

SUBMISSION TYPE:		NEW ASSIGNMENT						
NATURE OF CONVEYANCE:		ASSIGNMENT						
CONVEYING PARTY	DATA							
		Name	Execution Date					
THE GOVERNING C	OUNCIL OF T	HE UNIVERSITY OF TORONTO	11/24/2005					
RECEIVING PARTY								
Name:		EDWARD SARGENT						
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City:	NEWAR	<						
State/Country:	CALIFOF	RNIA						
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Name:	GERASI	GERASIMOS KONSTANTATOS						
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Name:	IAN HOWARD							
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Postal Code:	94560	94560						
Name:	ETHAN K	ETHAN KLEM						
Street Address:	7979 GA	7979 GATEWAY BOULEVARD, SUITE 240						
City:	NEWAR	<						
State/Country:	CALIFOF	RNIA						
Postal Code:	94560							

**PROPERTY NUMBERS Total: 1** 

Due view to a Trans		NI		
Property Type		Number		
Application Number:	1336	3747		
CORRESPONDENCE DATA				
Fax Number:				
		e-mail address first; if that is pat is unsuccessful, it will be		
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ATTORNEY DOCKET NUMBER:		3154.002US2		
NAME OF SUBMITTER:		TAMERAE ROBINSON		
SIGNATURE:		/Tamerae Robinson/		
DATE SIGNED:		06/13/2017		
Total Attachments: 13				
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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. 2. Name and address of receiving party(ies): 1. Name of conveying party(ies): Name: Edward Sargent, Jason, Clifford, Gerasimos The Governing Council of the University of Toronto Konstantatos, Ian Howard, Ethan Klem Street Address: 7979 Gateway Boulevard, Suite 240 Additional name(s) of conveying party(ies) attached? [ ]Yes [X]No City: Newark State: CA Zip: 94560 Country: United States of America 3. Nature of conveyance: Additional name(s) & address(es) attached? []Yes [X]No [X] Assignment | | Merger [] Security Agreement [] Change of Name [] Other Execution Date: November 24, 2005 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) B. Patent No.(s) Serial No. 13/368,747 Additional numbers attached? [ ]Yes [X]No 6. Total number of applications and patents involved: 1 5. Name and address of party to whom correspondence concerning document should be mailed: 7. Total fee (37 CFR 3.41):\$ 0.00 Name: Bradley W. Scheer [[Enclosed] Authorized to be charged to deposit account Address: 19-0743 Schwegman Lundberg & Woessner, P.A. P.O. Box 2938 8. Please charge any additional fees or credit any over Minneapolis, MN 55402--0938 payments to our Deposit Account No.: 19-0743 DO NOT USE THIS SPACE 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. June 13, 2017 Bradley W. Scheer/Reg. No. 47,059 Name of Person Signing Date Signature Total number of pages including cover sheet: 13

Mail documents to be recorded with required cover sheet information to: Commissioner of Patents and Trademarks Mail Stop Assignment Recordation Services P.O. Box 1450 Alexandria, VA 22313-1450



OFFICE OF THE VICE-PRESIDENT, RESEARCH AND ASSOCIATE PROVOST

# ASSIGNMENT OF RIGHTS FROM THE UNIVERSITY OF TORONTO

In consideration of the terms and mutual covenants hereinafter contained and other good and valuable consideration in the sum of Two Dollars (\$2.00) of lawful money of Canada paid by each of the parties to the other, the receipt and sufficiency of which are hereby acknowledged, **The Governing Council of the University of Toronto**, its successors and assigns (collectively the **"Assignor"**), and **Edward Sargent**, **Jason Clifford**, their heirs, executors, administrators and assigns (collectively the **"Assignee"**) covenant and agree as follows:

#### 1. Definitions

The following terms have the following meanings in this Assignment:

- (a) "Net Revenue" means the royalty, licensing and other revenue the Assignee receives directly or indirectly from all of the Assignee's rights in the Invention, less legal and other fees that the Assignee incurs directly in the process of establishing and maintaining the legal protection of those rights.
- (b) **"Equivalent Revenue"** means the fair market value of non-cash consideration the Assignee receives directly or indirectly from all of the Assignee's rights in the Invention.
- (c) "Invention" means the "Efficient, High-detectivity Photodetectors Based on a Combination of Differently-treated Solution-processed Quantum Dots" described in the confidential intellectual property disclosure attached as Appendix A, but does not include any improvements, enhancements, derivatives or other modifications thereto created after the date of execution of this Assignment.
- (d) "Aggregate Revenue" means the aggregate of Net Revenue plus Equivalent Revenue.

#### 2. Assignment of Rights

The Assignor assigns to the Assignee all right, title and interest, whatever the same may be (but without any representation or warranty as to the nature, extent or validity thereof), that the Assignor has or may in the future have in the Invention, including without limitation all copyrights, trade secrets and the right to apply for patents in every country, the right to receive any letters patent that may issue from any such applications and the right to sell or license the Invention subject to the University Collaboration Agreement between the Ontario Centres of Excellence Inc. and the University of Toronto effective April 1, 2004.

> Simcoe Hall, Room 133S, 27 King's College Circle, Toronto ON, M5S 1A1 2416.978.7833 
> 416.978.5821 
> 9 paul.mcarthur@utoronto.ca

#### 3. Licence to Use

Notwithstanding the rights granted above, the Assignor retains a perpetual, irrevocable, royalty-free, non-exclusive licence to use the Invention for research, educational and administrative purposes.

#### 4. Assignor's Share of Revenue

In consideration for the rights granted to the Assignee above, the Assignee shall pay the Assignor 25% of the Aggregate Revenue (the "Assignor's Share of Revenue").

#### 5. Payments

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#### 6. Annual Report

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#### 8. Indemnity

The Assignee shall indemnify and save the Assignor harmless from and against any loss arising out of or pursuant to any claims or demands in connection with the Invention and all costs, damages and expenses (including reasonable legal fees) incurred by the Assignor in connection therewith, except where such claims or demands are caused by the Assignor's use of the Invention under section 3 above.

#### 9. Release

Save and except for the right to enforce the terms of this Assignment, the Assignor releases the Assignee from any and all claims that the Assignor may now have or may in future have in respect of the Invention.

Notwithstanding anything in this Assignment, the Assignee shall not assign or license any or all of the Assignee's rights to the Invention, or amend any such agreements, without the Assignor's prior written consent, such consent not to be unreasonably withheld. Any such purported assignment, license or amendment made without the Assignor's consent shall be void and of no force or effect.

#### 11. Use of Name

The Assignce shall not use the name of the Assignor or any part thereof, nor any modification or abbreviation thereof, or cause or permit the same to be used in any way in association or connection with the Invention or in the development, exploitation, sale or licensing thereof, without the Assignor's prior express written consent.

#### 12. Miscellaneous

Titles used in this Assignment are for purposes of convenience only and shall not be used in the interpretation of this Assignment. The attached appendix forms part of this Assignment.

Executed at Toronto, Ontario this 24 day of November, 2005.

The Governing Council of the University of Toronto

John R.G. Challis, F.R.S.C. Vice-President, Research and Associate Provost

Louis R. Charpentier, Secretary

Inventors

Edward Sargept

Jason Clifford

PATENT REEL: 042697 FRAME: 0518

Witness

OFFICE OF THE VICE PRESIDENT, RESEARCH AND ASSOCIATE PROVOST

# ASSIGNMENT OF RIGHTS FROM THE UNIVERSITY OF TORONTO

In consideration of the terms and mutual covenants hereinafter contained and other good and valuable, consideration in the sum of Two Dellars (\$2.00) of lawful moriey of Canada paid by each of the parties to the other, the receipt and sufficiency of which are hereby acknowledged. The Governing Council of the University of Toronto, its successors and assigns (collectively the "Assigner"), and Jason Clifford, Edward Sargent, their heirs, executors, administrators and assigns (collectively the "Assignee") covenant and agree as follows:

#### **Definitions**

The following terms have the following meanings in this Assignment:

"Net Revenue" means the reveally, licensing and other revenue the Assigned receives directly or melineerly from all of the Assigned's rights in the Invention, less legal and other fees that the Assignee incurs directly in the process of establishing and maintaining the legal protection of those rights.

(b)

"Equivalent Revenue" means the fair market value of non-cash consideration the Assignee receives directly or indirectly from all of the Assignee's rights in the Invention.

(c) "Invention" means the "Efficient, High-detectivity Photodetectors Based on a Combination of Two Types of Solution-processed Quantum Dots, Each Composed of a Distinct Semiconductor Material" described in the confidential intellectual property disclosure attached as Appendix A, but does not include any improvements, enhancements, derivatives or other modifications thereto created after the date of execution of this Assignment.

(d) "Aggregate Revenue" means the aggregate of Net Revenue plus Equivalent Revenue.

#### 2. Assignment of Rights

The Assignor assigns to the Assignee all right, title and interest, whatever the same may be (but without any representation or warranty as to the nature, extent or validity thereof), that the Assignor has or may in the future have in the Invention, including without limitation all copyrights, trade secrets and the right to apply for patents in every country, the right to receive any letters patent that may issue from any such applications and the right to sell or license the Invention subject to the University Collaboration Agreement between the Ontario Centres of Excellence Inc. and the University of Toronto effective April 1, 2004.

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#### 3. Licence to Use

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## Assignor's Share of Revenue

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#### 5. Payments

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#### 6. Annual Report

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#### Lecounting Records

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#### 9. <u>Release</u>

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Notwithstanding anything in this Assignment, the Assignce shall not assign or license any or all of the Assignce's sights to the Invention, or amend any such agreements, without the Assignm's prior written content, such content not to be unreasonably withheld. Any such purported assignment, license or amendment made without the Assigner's consent shall be void and of no loves or effect.

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#### 12. Miscellancous

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Executed at Toronto, Ontario this  $\frac{24}{24}$ day of Monton

The Governing Council of the University of Toronto

Jahn R.G. Challis, F.R.S.C. Vice-President, Research and Associate Provost

1/s

Louis R. Charpentie Secretary

Inventors

Jason/Clifford

Edward Sargent

PATENT REEL: 042697 FRAME: 0521

Witness

# ASSIGNMENT OF RIGHTS FROM THE UNIVERSITY OF TORONTO

OFFICE OF THE VICE PREDIDENT, RESEARCH AND ASSOCIATE PROVOST

In consideration of the terms and mutual covenants hereinafter contained and other good and valuable consideration in the sum of Two Dollars (\$2,00) of lawful money of Canada paid by each of the parties to the other, the receipt and sufficiency of which are hereby acknowledged. The Governing Council of the University of Toronto, its successors and assigns (collectively the "Assignor"), and Edward Sargent, Juson Clifford, their heirs, executors, administrators and assigns (collectively the "Assignee") covenant and agree as follows:

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(c) "Invention" means the "A Method of Sensitizing an Electronic Read-out Integrated Circuit into the Infrared Spectral Range Using Spin-coated Quantum Dot Nanocrystals" described in the confidential intellectual property disclosure attached as Appendix A, but does not include any improvements, enhancements, derivatives or other modifications thereto created after the date of execution of this Assignment.

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The Governing Council of the University of Toronto

John R.G. Challis, F.R.S.C. Vice-President, Research and Associate Provost

Louis R. Charpentier Secretary

Witness

Inventors Edward Sargen Jason Clifford



OFFICE OF THE VICE-PRESIDENT, RESEARCH AND ASSOCIATE PROVOST

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Inventors

**Edward Sargent** 

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Gerasimos konstantatos

Ian Howard

Ethan Klem

## PATENT REEL: 042697 FRAME: 0527

### **RECORDED: 06/13/2017**

Witness