

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT3429963

|   |                                |
|---|--------------------------------|
| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT                 |
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT                     |
| <b>CONVEYING PARTY DATA</b>   |                                |
|   |                                |
| <b>Name</b>   | <b>Execution Date</b>          |
| SETH COE-SULLIVAN   | 12/20/2007                     |
| MARSHALL COX  | 12/20/2007                     |
| CAROLINE J. ROUSH   | 06/20/2007                     |
| JONATHAN S. STECKEL   | 12/20/2007                     |
| <b>RECEIVING PARTY DATA</b>   |                                |
| <b>Name:</b>  | QD VISION, INC.                |
| <b>Street Address:</b>  | 29 HARTWELL AVENUE             |
| <b>City:</b>  | LEXINGTON                      |
| <b>State/Country:</b>   | MASSACHUSETTS                  |
| <b>Postal Code:</b>   | 02421                          |
| <b>PROPERTY NUMBERS Total: 1</b>  |                                |
|   |                                |
| <b>Property Type</b>  | <b>Number</b>                  |
| <b>Application Number:</b>  | 14732772                       |
| <b>CORRESPONDENCE DATA</b>  |                                |
| <b>Fax Number:</b>  | (781)372-3281                  |
| <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>Phone:</b>   | 781-652-7400                   |
| <b>Email:</b>   | qdvip@qdvision.com             |
| <b>Correspondent Name:</b>  | MARTHA ANN FINNEGAN            |
| <b>Address Line 1:</b>  | 29 HARTWELL AVENUE             |
| <b>Address Line 4:</b>  | LEXINGTON, MASSACHUSETTS 02421 |
| <b>ATTORNEY DOCKET NUMBER:</b>  | QDV053/054USC1                 |
| <b>NAME OF SUBMITTER:</b>   | HEATHER TANASHIAN              |
| <b>SIGNATURE:</b>   | /Heather Tanashian/            |
| <b>DATE SIGNED:</b>   | 07/08/2015                     |
| <b>Total Attachments: 16</b>  |                                |
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JOINT INVENTION

ASSIGNMENT

(Worldwide Rights)

**WHEREAS** We, the undersigned (herein after referred to as "Assignors" or "We"), are named as inventors in the patent application entitled:

**LIGHT-EMITTING DEVICES AND DISPLAYS WITH IMPROVED PERFORMANCE**

for which International Patent Application No. **PCT/US2007/13152** was filed on **4 June 2007**, and

**WHEREAS, QD Vision, Inc.**, a corporation of Delaware (U.S.A.), whose post office address is 313 Pleasant Street, 4<sup>th</sup> Floor, Watertown, Massachusetts 02472 (hereby referred to as Assignee), is desirous of securing the entire right, title, and interest throughout the world in and to the inventions and improvements which are the subject of the above identified application;

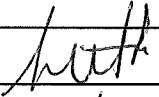
**NOW THEREFORE**, be it known that for good and valuable consideration, the receipt and sufficiency of which from Assignee is hereby acknowledged, We, as Assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, the entire right, title, and interest throughout the world in and to the inventions and improvements which are the subject of said application, this assignment including said application, all utility applications claiming priority from said application, divisions, continuations-in-part, and continuations of the foregoing, any and all Letters Patent of the United States which may be granted for any of said inventions and improvements, any and all reissues thereof, any and all foreign patents, utility models, and design registrations granted for any of said inventions and improvements in any foreign country, any and all extensions, renewals, and reissues thereof, all rights to claim priority based on the filing date of said application, including the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other statutes and treaties of like purpose; and We authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models and design registrations and like rights of exclusion and for inventor's certificates for said inventions and improvements; and We hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

**AND, WE HEREBY** covenant that We have the full right to convey the interest assigned by this Assignment, and We have not executed and will not execute any agreement in conflict with this Assignment;

**AND, WE HEREBY** further covenant and agree for ourselves and our respective heirs, legal representatives and assigns that We will, without further compensation, perform such lawful acts as Assignee may reasonably request to effectuate fully this assignment, including, but not limited to, communicating with Assignee, its successors and assigns, any facts known to us respecting said inventions and improvements, testifying in any legal proceeding, signing all lawful papers when called upon to do so, executing and delivering any and all papers that may be necessary or desirable to perfect the title to said inventions and improvements in said Assignee, its successors and assigns, executing said application and all further applications, making all rightful oaths and generally performing other lawful acts reasonably requested by Assignee, its successors and assigns, to obtain and

enforce proper patent and other rights in and to said inventions and improvements in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

**IN WITNESS WHEREOF**, I hereto set my hand:

|  |   |
|--|---|
| FULL NAME OF FIRST ASSIGNOR: <b>SETH A. COE-SULLIVAN</b> |   |
| Address: 60 Harriett Road, Belmont, MA 02478             |   |
| Signature:   |  |
| Date:  | 12/20/87  |

**IN WITNESS WHEREOF**, I hereto set my hand:

|  |  |
|--|--|
| FULL NAME OF SECOND ASSIGNOR: <b>DORAI RAMPRASAD</b> |  |
| Address: 316 N. 41st Street, Allentown, PA 18104     |  |
| Signature:   |  |
| Date:  |  |

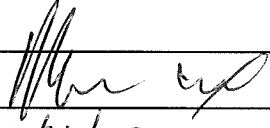
**IN WITNESS WHEREOF**, I hereto set my hand:

|  |  |
|--|--|
| FULL NAME OF THIRD ASSIGNOR: <b>IOANNIS KYMISSIS</b> |  |
| Address: 526 W113th Street, #43, New York, NY 10023  |  |
| Signature:   |  |
| Date:  |  |

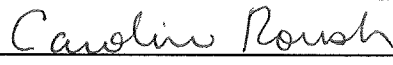
**IN WITNESS WHEREOF**, I hereto set my hand:

|   |
|---|
| FULL NAME OF FOURTH ASSIGNOR: <b>VLADIMIR BULOVIC</b> |
| Address: 16 Lillian Road, Lexington, MA 02420         |
| Signature:  |
| Date:   |


IN WITNESS WHEREOF, I hereto set my hand:

|   |
|---|
| FULL NAME OF FIFTH ASSIGNOR: <b>MARSHALL COX</b>  |
| Address: <del>43 Allen Street, Cambridge, MA 02140</del><br>41 Marion Street, 3rd fl. Melford, MA 02155 |
| Signature:             |
| Date: 12/20/07  |

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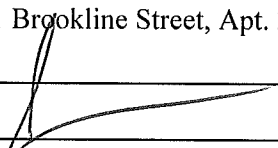
|  |
|--|
| FULL NAME OF SIXTH ASSIGNOR: <b>CAROLINE J. ROUSH</b>  |
| Address: 20 Appleton Street, #2, Somerville, MA 02144  |
| Signature:  |
| Date: 6/20/07  |

IN WITNESS WHEREOF, I hereto set my hand:

|  |
|--|
| FULL NAME OF SEVENTH ASSIGNOR: <b>PETER T. KAZLAS</b>  |
| 29 PILGRIMS PATH <sup>file 7/20/2009</sup>   |
| Address: <del>405 Dutton Street</del> , Sudbury, MA 01776                                      |
| Signature:  |

Date: 7/20/2009

IN WITNESS WHEREOF, I hereto set my hand:

|   |   |
|---|---|
| FULL NAME OF EIGHTH ASSIGNOR: <b>JONATHAN S. STECKEL</b>    |   |
| Address: 231 Brookline Street, Apt. 3L, Cambridge, MA 02139 |   |
| Signature:  |  |
| Date:   | 12/20/07  |

JOINT INVENTION

**ASSIGNMENT**

(Worldwide Rights)

**WHEREAS** We, the undersigned (herein after referred to as "Assignors" or "We"), are named as inventors in the patent application entitled:

**LIGHT-EMITTING DEVICES AND DISPLAYS WITH IMPROVED PERFORMANCE**

for which International Patent Application No. **PCT/US2007/13152** was filed on **4 June 2007**, and

**WHEREAS, QD Vision, Inc.**, a corporation of Delaware (U.S.A.), whose post office address is 313 Pleasant Street, 4<sup>th</sup> Floor, Watertown, Massachusetts 02472 (hereby referred to as Assignee), is desirous of securing the entire right, title, and interest throughout the world in and to the inventions and improvements which are the subject of the above identified application;

**NOW THEREFORE**, be it known that for good and valuable consideration, the receipt and sufficiency of which from Assignee is hereby acknowledged, We, as Assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, the entire right, title, and interest throughout the world in and to the inventions and improvements which are the subject of said application, this assignment including said application, all utility applications claiming priority from said application, divisions, continuations-in-part, and continuations of the foregoing, any and all Letters Patent of the United States which may be granted for any of said inventions and improvements, any and all reissues thereof, any and all foreign patents, utility models, and design registrations granted for any of said inventions and improvements in any foreign country, any and all extensions, renewals, and reissues thereof, all rights to claim priority based on the filing date of said application, including the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other statutes and treaties of like purpose; and We authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models and design registrations and like rights of exclusion and for inventor's certificates for said inventions and improvements; and We hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

**AND, WE HEREBY** covenant that We have the full right to convey the interest assigned by this Assignment, and We have not executed and will not execute any agreement in conflict with this Assignment;

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| Address: <del>316 N. 41st Street, Allentown, PA 18104</del> #137, 10635 GRAMERCY PLACE<br>COLUMBIA MD 21044 |
| Signature: <i>Dorai Ramprasad</i>   |
| Date: 6/15/2009   |

IN WITNESS WHEREOF, I hereto set my hand:

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| FULL NAME OF THIRD ASSIGNOR: <b>IOANNIS KYMISSIS</b> |
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Docket No. QDV053054\_PCT

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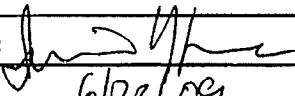
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Docket No. QDV053054\_PCT

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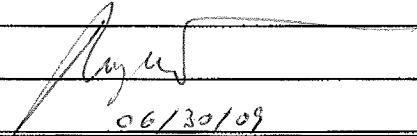
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| Address: 405 Dutton Street, Sudbury, MA 01776         |  |
| Signature:  |  |

Date:

IN WITNESS WHEREOF, I hereto set my hand:

|   |
|---|
| FULL NAME OF EIGHTH ASSIGNOR: <b>JONATHAN S. STECKEL</b>    |
| Address: 231 Brookline Street, Apt. 3L, Cambridge, MA 02139 |
| Signature:  |
| Date:   |