

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT4718571

|                                   |                                                      |
|-----------------------------------|------------------------------------------------------|
| <b>SUBMISSION TYPE:</b>           | NEW ASSIGNMENT                                       |
| <b>NATURE OF CONVEYANCE:</b>      | SECOND LIEN INTELLECTUAL PROPERTY SECURITY AGREEMENT |
| <b>CONVEYING PARTY DATA</b>       |                                                      |
| <b>Name</b>                       | <b>Execution Date</b>                                |
| EXCELITAS TECHNOLOGIES CORP.      | 12/01/2017                                           |
| <b>RECEIVING PARTY DATA</b>       |                                                      |
| <b>Name:</b>                      | ROYAL BANK OF CANADA, AS COLLATERAL AGENT            |
| <b>Street Address:</b>            | 200 VESEY STREET                                     |
| <b>City:</b>                      | NEW YORK                                             |
| <b>State/Country:</b>             | NEW YORK                                             |
| <b>Postal Code:</b>               | 10281-8098                                           |
| <b>PROPERTY NUMBERS Total: 62</b> |                                                      |
| <b>Property Type</b>              | <b>Number</b>                                        |
| Patent Number:                    | 6047643                                              |
| Patent Number:                    | 6274970                                              |
| Patent Number:                    | 6178888                                              |
| Patent Number:                    | 6158347                                              |
| Patent Number:                    | 6400067                                              |
| Patent Number:                    | 6181084                                              |
| Patent Number:                    | 6230625                                              |
| Patent Number:                    | 6114842                                              |
| Patent Number:                    | 6316867                                              |
| Patent Number:                    | 6602104                                              |
| Patent Number:                    | 6597087                                              |
| Patent Number:                    | 6376993                                              |
| Patent Number:                    | 6483240                                              |
| Patent Number:                    | 6470802                                              |
| Patent Number:                    | 6546837                                              |
| Patent Number:                    | 6806627                                              |
| Patent Number:                    | 7300185                                              |
| Patent Number:                    | 7679096                                              |
| Patent Number:                    | 7176633                                              |
| Patent Number:                    | 7372201                                              |

PATENT

| Property Type       | Number   |
|---------------------|----------|
| Patent Number:      | 7301262  |
| Patent Number:      | 7067967  |
| Patent Number:      | 7291981  |
| Patent Number:      | 7217022  |
| Patent Number:      | 7157710  |
| Patent Number:      | 7172320  |
| Patent Number:      | 7209373  |
| Patent Number:      | 7141927  |
| Patent Number:      | 7637629  |
| Patent Number:      | 7675244  |
| Patent Number:      | 9534875  |
| Patent Number:      | 8033683  |
| Patent Number:      | 7859872  |
| Patent Number:      | 7923748  |
| Patent Number:      | 8616785  |
| Patent Number:      | 8408772  |
| Patent Number:      | 8096677  |
| Patent Number:      | 8475009  |
| Patent Number:      | 8467208  |
| Patent Number:      | 8616751  |
| Patent Number:      | 8651695  |
| Patent Number:      | 9222628  |
| Patent Number:      | 9748086  |
| Patent Number:      | 9576785  |
| Patent Number:      | 9373494  |
| Patent Number:      | 9741553  |
| Patent Number:      | 9791636  |
| Patent Number:      | D537550  |
| Patent Number:      | D629947  |
| Patent Number:      | D693501  |
| Application Number: | 13895943 |
| Application Number: | 14296564 |
| Application Number: | 15069242 |
| Application Number: | 15232161 |
| Application Number: | 15288063 |
| Application Number: | 15333634 |
| Application Number: | 15340067 |
| Application Number: | 15352652 |

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 15409702 |
| Application Number: | 15584318 |
| Application Number: | 15604925 |
| Application Number: | 62443222 |

#### CORRESPONDENCE DATA

**Fax Number:** (212)751-4864

***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:** 212-906-1216

**Email:** angela.amaru@lw.com

**Correspondent Name:** LATHAM & WATKINS LLP C/O ANGELA M. AMARU

**Address Line 1:** 885 THIRD AVENUE

**Address Line 4:** NEW YORK, NEW YORK 10022

|                                |                     |
|--------------------------------|---------------------|
| <b>ATTORNEY DOCKET NUMBER:</b> | 045494-0215         |
| <b>NAME OF SUBMITTER:</b>      | ANGELA M. AMARU     |
| <b>SIGNATURE:</b>              | /S/ Angela M. Amaru |
| <b>DATE SIGNED:</b>            | 12/05/2017          |

#### Total Attachments: 13

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## SECOND LIEN INTELLECTUAL PROPERTY SECURITY AGREEMENT

This SECOND LIEN INTELLECTUAL PROPERTY SECURITY AGREEMENT (as amended, amended and restated, supplemented or otherwise modified from time to time, this “**IP Security Agreement**”), dated as of December 1, 2017, is among the Persons listed on the signature pages hereof (collectively, the “**Grantors**”) and Royal Bank of Canada, as collateral agent (the “**Collateral Agent**”) for the ratable benefit of the Secured Parties (as defined in the Credit Agreement referred to below).

WHEREAS, EXC Holdings III Corp., a Delaware corporation (the “**Borrower**”), has entered into the Second Lien Credit Agreement, dated as of December 1, 2017 (as amended, amended and restated, supplemented or otherwise modified from time to time, the “**Credit Agreement**”), with EXC Holdings II Corp., a Delaware corporation, each Lender from time to time party thereto, and Royal Bank of Canada, as Administrative Agent and as Collateral Agent.

WHEREAS, as a condition precedent to the making of the Loans by the Lenders under the Credit Agreement, each Grantor has executed and delivered that certain Second Lien Security Agreement, dated as of December 1, 2017, among the Grantors from time to time party thereto and the Collateral Agent (as amended, amended and restated, supplemented or otherwise modified from time to time in accordance with the terms thereof, the “**Security Agreement**”). Terms defined in the Credit Agreement or the Security Agreement and not otherwise defined herein are used herein as defined in the Credit Agreement or the Security Agreement, as applicable.

WHEREAS, under the terms of the Security Agreement, the Grantors have granted to the Collateral Agent, for the ratable benefit of the Secured Parties, a security interest in, among other property, certain intellectual property of the Grantors, and have agreed as a condition thereof to execute this IP Security Agreement for recording with the U.S. Patent and Trademark Office, the United States Copyright Office and any other appropriate governmental authorities.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each Grantor agrees as follows:

SECTION 1. Grant of Security. Each Grantor hereby grants to the Collateral Agent, for the ratable benefit of the Secured Parties, a security interest in all of such Grantor’s right, title and interest in and to the following (the “**Collateral**”):

(i) all Patents, patent applications and utility models, all inventions and improvements claimed therein and the right to claim any inventions disclosed but unclaimed therein, including, without limitation, the Patents and Patent applications set forth in Schedule A hereto;

(ii) all Trademarks, service marks, domain names, trade dress, logos, designs, slogans, trade names, business names, corporate names and other source identifiers, whether registered or unregistered, together, in each case, with the goodwill of the business connected with the use thereof and symbolized thereby, including, without limitation, the Trademark and service mark registrations and applications set forth in Schedule B hereto (provided that no security interest shall be granted in United States intent-to-use Trademark applications, prior to the filing and acceptance of a “Statement of Use” or an “Amendment to Allege Use” with respect thereto, solely to the extent that, and solely during the period in which, the grant of a security interest therein would impair the validity or enforceability of such intent-to-use Trademark applications or any registrations that issue therefrom under applicable federal law);

(iii) all Copyrights, including, without limitation, Copyrights in Computer Software, internet web sites and the content thereof, whether registered or unregistered, including, without limitation, the Copyright registrations set forth in Schedule C hereto;

(iv) all registrations and applications for registration for any of the foregoing;

(v) all agreements, permits, consents, orders and franchises relating to the license, development, use or disclosure of any of the foregoing to which such Grantor, now or hereafter, is a party or a beneficiary, including, without limitation, the agreements granting any exclusive right to the Grantor in or to any registered Copyright set forth in Schedule D hereto;

(vi) all reissues, divisions, continuations, continuations-in-part, extensions, renewals and reexaminations of any of the foregoing, all rights in the foregoing provided by international treaties or conventions, all rights corresponding thereto throughout the world and all other rights of any kind whatsoever of such Grantor accruing thereunder or pertaining thereto;

(vii) any and all claims for damages, other payments and/or injunctive relief for past, present and future infringement, dilution, misappropriation, violation, misuse or breach with respect to any of the foregoing, with the right, but not the obligation, to sue for and collect, or otherwise recover, such damages, payments or other relief; and

(viii) any and all Proceeds of, collateral for, income, royalties and other payments now or hereafter due and/or payable with respect to, and supporting obligations relating to, any and all of the foregoing, and, to the extent not otherwise included, all payments under insurance (whether or not the Collateral Agent is the loss payee thereof), or any indemnity, warranty or guaranty, payable by reason of loss or damage or otherwise with respect to any of the foregoing.

provided that, notwithstanding anything to the contrary contained in the foregoing clauses (i) through (viii), the security interest created hereby shall not extend to, and the term "Collateral" shall not include, any lease, license or other agreement to the extent that a grant of a security interest therein would violate or invalidate such lease, license or agreement, or create a right of termination in favor of any other party thereto (other than any Grantor or any Subsidiary of any Grantor), in each case to the extent not rendered unenforceable pursuant to the applicable provisions of the Uniform Commercial Code or other applicable law and so long as the applicable provision giving rise to such violation or invalidity or such right of termination was not incurred in anticipation of the entering into of the Credit Agreement; provided, further, that (x) the Collateral includes Proceeds and receivables of any property excluded under this provision, the assignment of which is expressly deemed effective under the Uniform Commercial Code notwithstanding such prohibition and (y) such excluded lease, license or other agreement shall otherwise be subject to the security interest created by the Security Agreement upon receiving any necessary approvals or waivers permitting the assignment thereof.

SECTION 2. Security for Obligations. The grant of a security interest in the Collateral by each Grantor under this IP Security Agreement secures the payment and performance of all Obligations of such Grantor now or hereafter existing under or in respect of the Loan Documents (as such Loan Documents may be amended, amended and restated, supplemented, replaced, refinanced, re-tranched, extended, increased or otherwise modified from time to time (including any extensions of maturity dates and increases of the principal amount outstanding thereunder)), including, without limitation, any extensions, increases, modifications, substitutions, amendments, refinancings, refundings,

replacements or renewals of any or all of the foregoing Obligations (whether or not such action is committed, contemplated or provided for by the Loan Documents on the date hereof), whether direct or indirect, absolute or contingent, and whether for principal, reimbursement obligations, interest, fees, premiums, penalties, indemnifications, contract causes of action, costs, expenses or otherwise.

SECTION 3. Recordation. Each Grantor authorizes and requests that the Register of Copyrights, the Commissioner for Patents and the Commissioner for Trademarks and any other applicable government officer record this IP Security Agreement.

SECTION 4. Grants, Rights and Remedies. This IP Security Agreement has been entered into in conjunction with the provisions of the Security Agreement. Each Grantor does hereby acknowledge and confirm that the grant of the security interest hereunder to, and the rights and remedies of, the Collateral Agent with respect to the Collateral are more fully set forth in the Security Agreement, the terms and provisions of which are incorporated herein by reference as if fully set forth herein. In the event that any provision of this IP Security Agreement is deemed to conflict with the Security Agreement, the provisions of the Security Agreement shall control.

SECTION 5. Execution in Counterparts. This IP Security Agreement may be executed in any number of counterparts, each of which when so executed shall be deemed to be an original and all of which taken together shall constitute one and the same agreement. Delivery of an executed counterpart of a signature page to this IP Security Agreement by telecopier or other electronic method shall be effective as delivery of an original executed counterpart of this IP Security Agreement.

SECTION 6. Notices, Etc. All notices and other communications provided for hereunder shall be in writing (including telegraphic, telecopy or telex communication or facsimile transmission) and mailed, telegraphed, telecopied, telexed, faxed or delivered, if to any Grantor, addressed to it in care of the Borrower at the Borrower's address specified in Section 10.02 of the Credit Agreement, or if to the Collateral Agent, to its address specified in Section 10.02 of the Credit Agreement. All such notices and other communications shall be deemed to be given or made at such time as shall be set forth in Section 10.02 of the Credit Agreement. Delivery by telecopier of an executed counterpart of any amendment or waiver of any provision of this IP Security Agreement or Schedule hereto shall be effective as delivery of an original executed counterpart thereof.

SECTION 7. Governing Law. This IP Security Agreement shall be governed by, and construed in accordance with, the laws of the State of New York.

SECTION 8. Intercreditor Agreement. Notwithstanding anything herein to the contrary, (i) the liens and security interests granted to the Collateral Agent on behalf of the Secured Parties pursuant to this IP Security Agreement are expressly subject and subordinate to the liens and security interests granted in favor of the Senior Priority Secured Parties (as defined in the Closing Date Intercreditor Agreement), including liens and security interests granted to JPMorgan Chase Bank, N.A., as collateral agent, pursuant or in connection with the First Lien Credit Agreement and (ii) the exercise of any right or remedy by the Collateral Agent or any other secured party hereunder is subject to the limitations and provisions contained in the Closing Date Intercreditor Agreement. In the event of any conflict between the provisions of any Intercreditor Agreement and the provisions of this agreement, the provisions of such Intercreditor Agreement shall control.

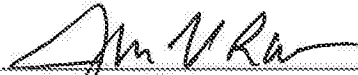
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IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be duly executed and delivered as of the date first above written.

GRANTOR:

EXCELITAS TECHNOLOGIES CORP.

By:



Name: James V. Rao

Title: Executive Vice President, Chief  
Financial Officer and Treasurer

ROYAL BANK OF CANADA, as Collateral Agent

By: \_\_\_\_\_

Name:

Title:

  
Susan, Khokher  
Manager, Agency

[Signature Page to Second Lien Intellectual Property Security Agreement]

**PATENT**

**REEL: 044695 FRAME: 0787**

## **SCHEDULE A**

### **Patents**

| <b>Patent Title</b>                                                                     | <b>Application Number<br/>Application Date</b> | <b>Patent Number<br/>Grant Date</b> | <b>Status</b> |
|-----------------------------------------------------------------------------------------|------------------------------------------------|-------------------------------------|---------------|
| HERMETICALLY SEALED LASER<br>ACTUATOR/DETONATOR AND METHOD OF<br>MANUFACTURING THE SAME | 08989544<br>12/12/1997                         | 6047643<br>4/11/2000                | Issued        |
| IMPROVED ARC LAMP                                                                       | 09000704<br>12/30/1997                         | 6274970<br>8/14/2001                | Issued        |
| DETONATOR                                                                               | 09009784<br>1/20/1998                          | 6178888<br>1/30/2001                | Issued        |
| DETONATOR                                                                               | 09017283<br>2/2/1998                           | 6158347<br>12/12/2000               | Issued        |
| HIGH POWER SHORT ARC DISCHARGE LAMP<br>WITH HEAT SINK                                   | 09170269<br>10/13/1998                         | 6400067<br>6/4/2002                 | Issued        |
| BALLAST CIRCUIT FOR HIGH INTENSITY<br>DISCHARGE LAMPS                                   | 09258003<br>2/25/1999                          | 6181084<br>1/30/2001                | Issued        |
| DISARMABLE FIRING MODULE                                                                | 09286522<br>4/6/1999                           | 6230625<br>5/15/2001                | Issued        |
| PRECISION VOLTAGE REGULATOR FOR<br>CAPACITOR-CHARGING POWER SUPPLY                      | 09427221<br>10/26/1999                         | 6114842<br>9/5/2000                 | Issued        |
| LOW-COST XENON ARC LAMP WITH<br>IMPROVED MOUNTING MEANS FOR<br>CATHODE AND ANODE        | 09427851<br>10/26/1999                         | 6316867<br>11/13/2001               | Issued        |
| SIMPLIFIED MINIATURE XENON ARC LAMP                                                     | 09525996<br>3/15/2000                          | 6602104<br>8/5/2003                 | Issued        |
| MINIATURE XENON ARC LAMP WITH<br>CATHODE SLOT-MOUNTED TO STRUT                          | 09789878<br>2/20/2001                          | 6597087<br>7/22/2003                | Issued        |
| POWER SUPPLY TO XENON ARC LAMP<br>INTERFACE                                             | 09789951<br>2/20/2001                          | 6376993<br>4/23/2002                | Issued        |

| Patent Title                                              | Application Number<br>Application Date | Patent Number<br>Grant Date | Status                                                                                             |
|-----------------------------------------------------------|----------------------------------------|-----------------------------|----------------------------------------------------------------------------------------------------|
| COMPACT AND STABILIZED ARC HIGH-PRESSURE MERCURY LAMP     | 09801085<br>3/6/2001                   | 6483240<br>11/19/2002       | Issued                                                                                             |
| MULTILAYER CHIP SLAPPER                                   | 09885146<br>6/20/2001                  | 6470802<br>10/29/2002       | Issued                                                                                             |
| DUAL LOAD CHARGE MANUFACTURING METHOD AND PRESS THEREFORE | 10002550<br>11/2/2001                  | 6546837<br>4/15/2003        | Issued                                                                                             |
| PROBE STABILIZED ARC DISCHARGE LAMP                       | 10120975<br>4/11/2002                  | 6806627<br>10/19/2004       | Issued                                                                                             |
| QUADRILATERAL SYMMETRICAL LIGHT SOURCE                    | 10612612<br>7/2/2003                   | 7300185<br>11/27/2007       | Issued                                                                                             |
| INTEGRATED LED HEAT SINK                                  | 10645474<br>8/21/2003                  | 7679096<br>3/26/2010        | Issued (Will be abandoned in due course; Grantor does not intend to pay required maintenance fees) |
| ARC LAMP WITH AN INTERNALLY MOUNTED FILTER                | 10732787<br>12/9/2003                  | 7176633<br>2/13/2007        | Issued                                                                                             |
| SUB-MINIATURE ARC LAMP                                    | 10732792<br>12/9/2003                  | 7372201<br>5/13/2008        | Issued                                                                                             |
| METHOD AND AN APPARATUS FOR COOLING AN ARC LAMP           | 10850135<br>5/19/2004                  | 7301262<br>11/27/2007       | Issued                                                                                             |
| AN ARC LAMP HAVING WINDOW FLANGE WITH SLOTS               | 10890968<br>7/13/2004                  | 7067967<br>6/27/2006        | Issued                                                                                             |
| SHORT ARC LAMP WITH IMPROVED MANUFACTURABILITY            | 10891956<br>7/13/2004                  | 7291981<br>11/6/2007        | Issued                                                                                             |
| OPTIC FIBER LED LIGHT SOURCE                              | 10930283<br>8/31/2004                  | 7217022<br>5/15/2007        | Issued                                                                                             |
| CORONA DISCHARGE DETECTION                                | 10988052<br>11/12/2004                 | 7157710<br>1/2/2007         | Issued                                                                                             |
| LOW PROFILE MODULE AND FRAME ASSEMBLY FOR ARC LAMPS       | 11001984<br>12/1/2004                  | 7172320<br>2/6/2007         | Issued                                                                                             |

| Patent Title                                                                                                                      | Application Number<br>Application Date | Patent Number<br>Grant Date | Status |
|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-----------------------------|--------|
| HIGH VOLTAGE PULSE GENERATOR                                                                                                      | 11023851<br>12/28/2004                 | 7209373<br>4/24/2007        | Issued |
| ARC LAMP WITH INTEGRATED SAPPHIRE ROD                                                                                             | 11031213<br>1/7/2005                   | 7141927<br>11/28/2006       | Issued |
| THREADED-STUD XENON SHORT-ARC LAMP<br>SYSTEM                                                                                      | 11400706<br>4/6/2006                   | 7637629<br>12/29/2009       | Issued |
| SYSTEM AND METHOD FOR POWER SUPPLY<br>FOR LAMP WITH IMPROVED CONSTANT<br>POWER MODE CONTROL AND IMPROVED<br>BOOST CURRENT CIRCUIT | 11444716<br>6/1/2006                   | 7675244<br>3/9/2010         | Issued |
| INITIATOR                                                                                                                         | 11977068<br>10/23/2007                 | 9534875<br>1/3/2017         | Issued |
| STAGGERED LED BASED HIGH-INTENSITY<br>LIGHT                                                                                       | 12370793<br>2/13/2009                  | 8033683<br>10/11/2011       | Issued |
| LOAD VOLTAGE-INDEPENDENT ACTIVE<br>POWER CONTROL OF POWER CONVERTERS                                                              | 12471390<br>5/24/2009                  | 7859872<br>12/28/2010       | Issued |
| INTEGRATED LED HEAT SINK                                                                                                          | 12649631<br>12/30/2009                 | 7923748<br>4/12/2011        | Issued |
| FIBER OPTIC COUPLER                                                                                                               | 12705392<br>2/12/2010                  | 8616785<br>12/31/2013       | Issued |
| LED ILLUMINATION DEVICE                                                                                                           | 12705411<br>2/12/2010                  | 8408772<br>4/2/2013         | Issued |
| STAGGERED LED BASED HIGH-INTENSITY<br>LIGHT                                                                                       | 12771505<br>4/30/2010                  | 8096677<br>1/17/2012        | Issued |
| TAILORED SIDE-EMITTER PERIMETER<br>BEACON                                                                                         | 12832216<br>7/8/2010                   | 8475009<br>7/2/2013         | Issued |
| INPUT VOLTAGE-INDEPENDENT ACTIVE<br>POWER CONTROL OF DC TO AC POWER<br>CONVERTERS                                                 | 12978809<br>12/27/2010                 | 8467208<br>6/18/2013        | Issued |
| LIGHT GUIDE FOR COUPLING DIFFERENTLY<br>SHAPED LIGHT SOURCE AND RECEIVER                                                          | 13045111<br>3/10/2011                  | 8616751<br>12/31/2013       | Issued |
| LED BASED HIGH-INTENSITY LIGHT WITH<br>SECONDARY DIFFUSER                                                                         | 13053649<br>3/22/2011                  | 8651695<br>2/18/2014        | Issued |

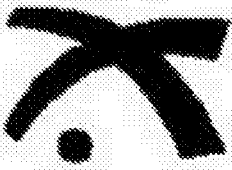
| Patent Title                                                                           | Application Number<br>Application Date | Patent Number<br>Grant Date | Status                       |
|----------------------------------------------------------------------------------------|----------------------------------------|-----------------------------|------------------------------|
| COLOR TEMPERATURE TUNABLE LED-BASED LAMP MODULE                                        | 13886703<br>5/3/2013                   | 9222628<br>12/29/2015       | Issued                       |
| VISIBLE LIGHT PHOTO-DISINFECTION PATCH                                                 | 13895943<br>5/16/2013                  | ---                         | Pending                      |
| ILLUMINATION DEVICE WITH INTEGRATED THERMAL IMAGING SENSOR                             | 14296564<br>6/5/2014                   | ---                         | Pending                      |
| LASER DRIVEN SEALED BEAM LAMP                                                          | 14712196<br>5/14/2015                  | 9748086<br>8/29/2017        | Issued                       |
| ELECTRODELESS SINGLE CW LASER DRIVEN XENON LAMP                                        | 14712304<br>5/14/2015                  | 9576785<br>2/21/2017        | Issued                       |
| SPARKER FOR FLASH LAMP                                                                 | 14739206<br>6/15/2015                  | 9373494<br>6/21/2016        | Issued                       |
| ELLIPTICAL AND DUAL PARABOLIC LASER DRIVEN SEALED BEAM LAMPS                           | 14938353<br>11/11/2015                 | 9741553<br>8/22/2017        | Issued                       |
| LASER DRIVEN SEALED BEAM LAMP WITH IMPROVED STABILITY                                  | 15069242<br>3/14/2016                  | ---                         | Pending                      |
| FIBER OPTIC FERRULE COUPLING SYSTEM                                                    | 15192184<br>6/24/2016                  | 9791636<br>10/17/2017       | Issued                       |
| APPARATUS AND A METHOD FOR OPERATING A SEALED BEAM LAMP CONTAINING AN IONIZABLE MEDIUM | 15232161<br>8/9/2016                   | ---                         | Pending                      |
| APPARATUS AND METHOD FOR DYNAMIC ADJUSTMENT OF THE BANDWIDTH OF A POWER CONVERTER      | 15288063<br>10/7/2016                  | ---                         | Pending<br>Not yet published |
| APPARATUS AND A METHOD FOR OPERATING A VARIABLE PRESSURE SEALED BEAM LAMP              | 15333634<br>10/25/2016                 | ---                         | Pending                      |
| LOAD SHARING BETWEEN PARALLEL CONNECTED POWER CONVERTERS                               | 15340067<br>11/1/2016                  | ---                         | Pending<br>Not yet published |
| INITIATOR                                                                              | 15352652<br>11/16/2016                 | ---                         | Pending                      |
| ELECTRODELESS SINGLE LOW POWER CW LASER DRIVEN                                         | 15409702<br>1/19/2017                  | ---                         | Pending                      |

| Patent Title                                                       | Application Number<br>Application Date | Patent Number<br>Grant Date | Status                                                 |
|--------------------------------------------------------------------|----------------------------------------|-----------------------------|--------------------------------------------------------|
| LUMINAIRE WITH INDEPENDENTLY-<br>CONTROLLABLE FOCUS-TUNABLE LENSES | 15584318<br>5/2/2017                   | ---                         | Pending<br>Not yet published                           |
| DUAL PARABOLIC LASER DRIVEN SEALED<br>BEAM LAMPS                   | 15604925<br>5/25/2017                  | ---                         | Pending                                                |
| OPTICAL FIBER LIGHT SOURCE HOUSING                                 | 29234527<br>7/19/2005                  | D537550<br>2/27/2007        | Issued                                                 |
| LED-BASED FIBER ILLUMINATOR                                        | 29332373<br>2/13/2009                  | D629947<br>12/28/2010       | Issued                                                 |
| LED BASED HAZARDOUS AREA FLOOD LIGHT                               | 29407031<br>11/22/2011                 | D693501<br>11/12/2013       | Issued                                                 |
| NOVEL LED ENCAPSULATION FOR<br>LUMINAIRE                           | 62443222<br>1/6/2017                   | ---                         | Pending<br>Provisional<br>application not<br>published |

## SCHEDULE B

### Trademarks

| Trademark/Image if any                                                                                        | Application Number<br>Application Date | Registration Number<br>Registration Date | Status     |
|---------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------------------|------------|
| ACULED                                                                                                        | 78740612<br>10/26/2005                 | 3309016<br>10/9/2007                     | Registered |
| A-ZOOM $\mu$<br>             | 86780956<br>10/7/2015                  | 4968340<br>5/31/2016                     | Registered |
| A-ZOOM2                                                                                                       | 76195088<br>1/17/2001                  | 2623658<br>9/24/2002                     | Registered |
| BLUE CHIP                                                                                                     | 87092025<br>7/2/2016                   | 5137530<br>2/7/2017                      | Registered |
| CERMAX                                                                                                        | 73392743<br>9/29/1982                  | 1267034<br>2/14/1984                     | Registered |
| CURX                                                                                                          | 86013126<br>7/17/2013                  | 4571014<br>7/22/2014                     | Registered |
| EXCELITAS                                                                                                     | 85226622<br>1/26/2011                  | 4518064<br>4/22/2014                     | Registered |
| EXCELITAS TECHNOLOGIES<br> | 85236364<br>2/8/2011                   | 4529883<br>5/13/2014                     | Registered |
| EXCELITAS TECHNOLOGIES                                                                                        | 85155171<br>10/18/2010                 | 4195259<br>8/21/2012                     | Registered |
| FETURA                                                                                                        | 77800926<br>8/10/2009                  | 3763102<br>3/23/2010                     | Registered |
| HELIX                                                                                                         | 87579659<br>8/22/2017                  | ---                                      | Pending    |
| LYNX                                                                                                          | 85700142<br>8/9/2012                   | 4526433<br>5/6/2014                      | Registered |

| Trademark/Image if any                                                                                                     | Application Number<br>Application Date | Registration Number<br>Registration Date | Status     |
|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------------------|------------|
| OMNIBLOCK                                                                                                                  | 76170113<br>11/24/2000                 | 2806940<br>1/20/2004                     | Registered |
| OPTEM                                                                                                                      | 75512679<br>7/2/1998                   | 2342423<br>4/18/2000                     | Registered |
| OPTIGRID                                                                                                                   | 75456029<br>3/24/1998                  | 2406738<br>11/21/2000                    | Registered |
| PAX-6                                                                                                                      | 78902923<br>6/7/2006                   | 3469652<br>7/15/2008                     | Registered |
| Q                                                                                                                          | 79106225<br>9/6/2011                   | 4370376<br>7/23/2013                     | Registered |
| QIOPTIQ<br>                               | 86478106<br>12/11/2014                 | 5018540<br>8/9/2016                      | Registered |
| QIOPTIQ<br>                              | 86477744<br>12/11/2014                 | 4961109<br>5/17/2016                     | Registered |
| QIOPTIQ                                                                                                                    | 78680577<br>7/28/2005                  | 3673051<br>8/25/2009                     | Registered |
| QIOPTIQ PHOTONICS FOR INNOVATION<br>    | 86478358<br>12/11/2014                 | 4961111<br>5/17/2016                     | Registered |
| QIOPTIQ PHOTONICS FOR<br>INNOVATION<br> | 86478343<br>12/11/2014                 | 4961110<br>5/17/2016                     | Registered |
| THE HIGH VOLTAGE POWER SUPPLIES<br>THAT WORK                                                                               | 75290991<br>5/13/1997                  | 2167468<br>6/23/1998                     | Registered |
| VIGI-LUX                                                                                                                   | 77018731<br>10/11/2006                 | 3481198<br>8/5/2008                      | Registered |
| X.<br>                                  | 86070626<br>9/20/2013                  | 4643511<br>11/25/2014                    | Registered |

**SCHEDULE C**

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None.