

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5083827

|                                                                                                                                                                                                 |                                                          |                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-----------------------|
| <b>SUBMISSION TYPE:</b>                                                                                                                                                                         | NEW ASSIGNMENT                                           |                       |
| <b>NATURE OF CONVEYANCE:</b>                                                                                                                                                                    | ASSIGNMENT                                               |                       |
| <b>CONVEYING PARTY DATA</b>                                                                                                                                                                     |                                                          |                       |
|                                                                                                                                                                                                 | <b>Name</b>                                              | <b>Execution Date</b> |
|                                                                                                                                                                                                 | TYCO ELECTRONICS (SHANGHAI) CO., LTD.                    | 02/26/2016            |
| <b>RECEIVING PARTY DATA</b>                                                                                                                                                                     |                                                          |                       |
| <b>Name:</b>                                                                                                                                                                                    | ADC TELECOMMUNICATIONS (SHANGHAI) DISTRIBUTION CO., LTD. |                       |
| <b>Street Address:</b>                                                                                                                                                                          | PART A 15, FLOOR B1, NO. 88, TAIGU ROAD                  |                       |
| <b>Internal Address:</b>                                                                                                                                                                        | WAI GAO QIAO FREE TRADE ZONE                             |                       |
| <b>City:</b>                                                                                                                                                                                    | SHANGHAI                                                 |                       |
| <b>State/Country:</b>                                                                                                                                                                           | CHINA                                                    |                       |
| <b>PROPERTY NUMBERS Total: 1</b>                                                                                                                                                                |                                                          |                       |
|                                                                                                                                                                                                 | <b>Property Type</b>                                     | <b>Number</b>         |
|                                                                                                                                                                                                 | Application Number:                                      | 15324971              |
| <b>CORRESPONDENCE DATA</b>                                                                                                                                                                      |                                                          |                       |
| <b>Fax Number:</b>                                                                                                                                                                              | (612)332-9081                                            |                       |
| <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>                                                                                                                                                                                   | 6123325300                                               |                       |
| <b>Email:</b>                                                                                                                                                                                   | cmanthie@merchantgould.com                               |                       |
| <b>Correspondent Name:</b>                                                                                                                                                                      | STEVEN C. BRUESS                                         |                       |
| <b>Address Line 1:</b>                                                                                                                                                                          | P.O. BOX 2903                                            |                       |
| <b>Address Line 2:</b>                                                                                                                                                                          | MERCHANT & GOULD P.C.                                    |                       |
| <b>Address Line 4:</b>                                                                                                                                                                          | MINNEAPOLIS, MINNESOTA 55402                             |                       |
| <b>ATTORNEY DOCKET NUMBER:</b>                                                                                                                                                                  | 02316.4494USWO                                           |                       |
| <b>NAME OF SUBMITTER:</b>                                                                                                                                                                       | STEVEN C. BRUESS                                         |                       |
| <b>SIGNATURE:</b>                                                                                                                                                                               | /Steven C. Bruess/                                       |                       |
| <b>DATE SIGNED:</b>                                                                                                                                                                             | 08/06/2018                                               |                       |
| <b>Total Attachments: 11</b>                                                                                                                                                                    |                                                          |                       |
| source=Assignment_ TE (Shanghai) to ADCT (Shanghai) Distribution Co Ltd#page1.tif                                                                                                               |                                                          |                       |
| source=Assignment_ TE (Shanghai) to ADCT (Shanghai) Distribution Co Ltd#page2.tif                                                                                                               |                                                          |                       |
| source=Assignment_ TE (Shanghai) to ADCT (Shanghai) Distribution Co Ltd#page3.tif                                                                                                               |                                                          |                       |
| source=Assignment_ TE (Shanghai) to ADCT (Shanghai) Distribution Co Ltd#page4.tif                                                                                                               |                                                          |                       |
| source=Assignment_ TE (Shanghai) to ADCT (Shanghai) Distribution Co Ltd#page5.tif                                                                                                               |                                                          |                       |

source=Assignment\_ TE (Shanghai) to ADCT (Shanghai) Distribution Co Ltd#page6.tif  
source=Assignment\_ TE (Shanghai) to ADCT (Shanghai) Distribution Co Ltd#page7.tif  
source=Assignment\_ TE (Shanghai) to ADCT (Shanghai) Distribution Co Ltd#page8.tif  
source=Assignment\_ TE (Shanghai) to ADCT (Shanghai) Distribution Co Ltd#page9.tif  
source=Assignment\_ TE (Shanghai) to ADCT (Shanghai) Distribution Co Ltd#page10.tif  
source=Assignment\_ TE (Shanghai) to ADCT (Shanghai) Distribution Co Ltd#page11.tif

**PATENT ASSIGNMENT AGREEMENT**

This PATENT ASSIGNMENT AGREEMENT (the "Assignment"), effective as of February 26, 2016 (the "Effective Date"), is entered into by and between Tyco Electronics (Shanghai) Co. Ltd., a company incorporated under Chinese law having an address at Units F and G, 1st Floor, No.15 Building, No.999 Ying Lun Road, China (Shanghai) Pilot Free Trade Zone ("Assignor") and ADC Telecommunications (Shanghai) Distribution Co., Ltd., addressed at Part A 15, Floor B1, No. 88, Taigu Road, Wai Gao Qiao Free Trade Zone, Shanghai, China ("Assignee"). Capitalized terms used but not defined herein shall have the meaning set forth in the Purchase Agreement (defined below).

**RECITALS**

**WHEREAS**, TE Connectivity Ltd., a Swiss Corporation (the "Seller"), CommScope Holding Company, Inc., a Delaware corporation ("Holdings") and CommScope, Inc., a Delaware corporation (the "Purchaser") have entered into a Stock and Asset Purchase Agreement dated as of January 27, 2015 (the "Purchase Agreement");

**WHEREAS**, pursuant to Section 2.11(b) and (c) of the Purchase Agreement, the Seller and the Purchaser have agreed to enter into an agreement pursuant to which certain Patents owned by the Seller or other Asset Selling Entities are assigned to the Purchaser or its Permitted Designees;

**WHEREAS**, Assignor owns the Patents set forth on Schedule 1 hereto ("Assigned Patents") and desires to assign, convey, transfer, deliver and vest all of its right, title and interests in and to the Assigned Patents for all jurisdictions throughout the world, including all countries and political entities, to and in Assignee;

**WHEREAS**, Assignee desires to accept from Assignor the Assigned Patents.

**NOW, THEREFORE**, for good and valuable consideration provided for in the Purchase Agreement, the receipt and sufficiency of which are hereby acknowledged, the parties hereto agree as follows:

1. Assignment. Assignor hereby irrevocably assigns, conveys, transfers and delivers to Assignee, and Assignee hereby accepts, all of Assignor's entire, worldwide (for all jurisdictions throughout the world, including all countries and political entities) right, title and interest in and to the Assigned Patents, together with all corresponding counterpart patents and patent applications thereof, and including all continuation, divisional, continuation-in-part, continued prosecution applications, and provisional applications, any patents or reissued or re-examined patents resulting from any of the foregoing in any jurisdiction and any extensions thereof, and the priority rights thereto for all jurisdictions, for Assignee's own use and enjoyment, and for the use and enjoyment of Assignee's successors, assigns or other legal representatives, as fully and entirely as the same would have been held and enjoyed by Assignor if this Assignment had not been made, together with all income, royalties or payments due, accrued, or payable as of the Effective Date or thereafter, including, without limitation, any and

all claims or causes of action for profits and damages by reason of past, present or future infringement or other unauthorized use of any of the Assigned Patents, with the right to enforce and sue for, and recover or collect the same for Assignee's own use and enjoyment and for the use and enjoyment of its successors, assigns or other legal representatives.

2. Governing Law. This Assignment shall be governed by and construed in accordance with the Laws of the State of Delaware, without regard to the conflicts of law principles of such state.

3. Successors and Assigns. This Assignment shall be binding upon and shall inure to the benefit of the parties hereto and their respective successors and assigns.

4. Counterparts. This Assignment may be executed in one or more counterparts and delivered via facsimile, pdf, or other electronic means, each of which shall be deemed an original as against the party that signed it and all of which shall together constitute one and the same agreement, and shall become effective when one or more counterparts have been signed by each of the Parties and delivered to the other Party, it being understood that all Parties need not sign the same counterpart.

5. Further Assurances. Assignor agrees that from time to time, at the reasonable request of Assignee and at Assignee's expense, Assignor shall execute and deliver such other documents and take such other actions as Assignee may reasonably request to effectuate Assignor's assignment, transfer, and conveyance of the Assigned Patents of this Assignment and the transactions contemplated by this Assignment (including any documentation to perfect and record the rights granted hereunder in the Assigned Patents in any jurisdiction through the world). Assignor acknowledges and agrees that Assignee may perfect and record this Assignment or such other documentation in any jurisdiction throughout the world, and that Assignor shall cooperate therewith. The Assignee hereby requests and the Assignor hereby grants to the Assignee and its legal representatives all rights necessary to record this Assignment or such other documentation with the United States Patent and Trademark Office and any similar intellectual property office or government agency in any jurisdiction throughout the world. Assignor does hereby make, constitute and appoint Assignee (and any officer or agent of Assignee as Assignee may select in its exclusive discretion) as Assignor's true and lawful attorney-in-fact, with the power to endorse Assignor's name on all applications, documents, papers and instruments solely as necessary to implement and effect fully the express intentions, purposes and provisions of this Assignment, including, but not limited to, the filing of any instrument of assignment and documents related thereto to effect such assignment in the United States Patent and Trademark Office and other patent offices and intellectual property governmental offices in any jurisdiction throughout the world; provided, however, that Assignee shall only be entitled to exercise its rights under this power of attorney with respect to any of the foregoing actions to the extent that Assignor has failed to take such action at the request of Assignee and following ten (10) days prior written notice to Assignor of the exercise of such rights. This power of attorney shall be irrevocable.

IN WITNESS WHEREOF, the parties hereto have caused this Assignment to be executed as of the date first set forth above.

ASSIGNOR:

TYCO ELECTRONICS (SHANGHAI) CO.  
LTD.

By:

Name: *Jonah Huang*  
Title: *Legal Representative*

[Company chop, if a CN entity]

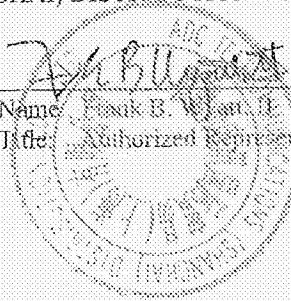
ASSIGNEE:

ADC TELECOMMUNICATIONS  
(SHANGHAI) DISTRIBUTION CO., LTD.

By:

Name: Frank B. W. [Signature]  
Title: Authorized Representative

[Seal]



**SCHEDULE 1**  
**ASSIGNED PATENTS**

**SEE ATTACHED.**

| Patent #  | Country | Application #     | Filing Date | Publication Date | Patent #  | Issue Date | Title                                                                                                        |
|-----------|---------|-------------------|-------------|------------------|-----------|------------|--------------------------------------------------------------------------------------------------------------|
| 2318.3898 | WO      | PCT/CN2014/070514 | 13-Jan-14   |                  |           |            | FIBER OPTIC CONNECTOR                                                                                        |
| 2318.4438 | WO      | 14/818.556        | 05-Aug-15   |                  |           |            | CONTRACTOR ASSEMBLY AND CONTROL CIRCUIT                                                                      |
| CC-009884 | CN      | 200910052290.3    | 27-May-09   | 101900853        | 01-Dec-10 | ZL2009100  | Fiber Optic Filter                                                                                           |
| NT-00377  | CN      | 201220064310.6    | 24-Feb-12   | 104103916        | 15-Oct-14 | ZL2012200  | Communication Tray, Drawer and Communication Shelf                                                           |
| NT-00421  | CN      | 201310122332.2    | 10-Apr-13   |                  |           |            | Communication Cable Termination Assembly, Termination Tool and Method                                        |
| NT-00421  | CN      | 201320176383.9    | 10-Apr-13   |                  |           | ZL2013200  | Communication Cable Termination Assembly, Termination Tool and Method                                        |
| NT-00421  | CN      | 1820141060229     | 27-Mar-14   | WO2014/1         | 16-Oct-14 | ZL2013200  | Communication Cable Termination Assembly, Tool and Method for Assembling the Same                            |
| NT-00422  | CN      | 201320396020.8    | 04-Jul-13   |                  |           |            | Distribution Frame for Electrical Cable and Optical Cable                                                    |
| NT-00424  | CN      | 201310482238.6    | 18-Oct-13   |                  |           | ZL2013200  | Terminating Apparatus, Pressing Tool, Tool Kit and Method of Terminating Conductors to Communication Modular |
| NT-00424  | CN      | 201320845590.4    | 18-Oct-13   |                  |           | ZL2013200  | Terminating Apparatus, Pressing Tool, Tool Kit and Method of Terminating Conductors to Communication Modular |
| NT-00424  | WO      | 1820141065463     | 20-Oct-14   |                  |           |            | Terminating Apparatus, Pressing Tool, Tool Kit and Method for Terminating Wires to Communication Module      |
| NT-00429  | CN      | 201520080559.X    | 04-Feb-15   |                  |           | ZL2015200  | Connector & Connector Assembly                                                                               |
| NT-00430  | CN      | 201530202726.9    | 18-Jun-15   |                  |           |            | Connector & Connector Assembly                                                                               |
| NT-00430  | CN      | 201520424509.9    | 18-Jun-15   |                  |           |            | XSLL Splitter                                                                                                |
| TO-00310  | CN      | 200910197339.4    | 15-Oct-09   | 102043214        | 04-May-11 | ZL2009101  | Optical Fiber Cable Attachment Device                                                                        |
| TO-00310  | KR      | 10-2010-0098845   | 13-Oct-10   | 2011-0041        | 21-Apr-11 | ZL2009101  | Optical Fiber Cable Holding Assembly                                                                         |
| TO-00321  | CN      | 200920210532.2    | 27-Sep-09   |                  |           | ZL2009200  | Dummy Rod                                                                                                    |
| TO-00321  | KR      | 20-2010-0099955   | 27-Sep-10   | 2011-0003        | 04-Apr-11 | ZL2009200  | Optical Fiber Connection Box                                                                                 |
| TO-00322  | CN      | 200920210487.0    | 25-Sep-09   |                  |           | ZL2009200  | Optical Fiber Connection Box                                                                                 |
| TO-00322  | KR      | 20-2010-0099957   | 27-Sep-10   | 2011-0003        | 31-Mar-11 | ZL2009200  | Optical Cable enclosure                                                                                      |
| TO-00323  | US      | 12/925304         | 19-Oct-10   | 2011/02668       | 03-Nov-11 | 8657504    | Optical Fiber Connection Device having a Rotating and Fixing Mechanism and a Positioning Member              |
| TO-00323  | EP      | 10187831.2        | 18-Oct-10   | 2312356          | 20-Apr-11 |            | Optical Fiber Connection Device                                                                              |
| TO-00323  | AU      | 2010235899        | 18-Oct-10   |                  |           |            | Optical Fiber Connection Device                                                                              |
| TO-00323  | CN      | 200910197541.7    | 19-Oct-09   |                  |           | ZL2009101  | Fiber Optic Connection Device                                                                                |
| TO-00333  | US      | 13/520379         | 03-Jul-12   |                  |           |            | A Safeguard Device for an Interface of a Fibre Adapter                                                       |
| TO-00333  | EP      | 10816328.8        | 23-Dec-10   | 2521932          | 14-Nov-12 |            | A Safeguard Device for an Interface of a Fibre Adapter                                                       |
| TO-00333  | AU      | 2010337853        | 23-Dec-10   |                  |           |            | A Safeguard Device for an Interface of a Fibre Adapter                                                       |
| TO-00333  | CN      | 201010001501.3    | 04-Jan-10   | 102116906        | 06-Jul-11 | ZL2010100  | A Safeguard Device for Connection of Optical Fiber Connectors                                                |
| TO-00333  | KR      | 10-2012-1020514   | 23-Dec-10   | 10-2012-01       | 13-Sep-12 |            | A Safeguard Device for an Interface of a Fibre Adapter                                                       |
| TO-00333  | JP      | 2012-546539       | 23-Dec-10   |                  |           | 5669279    | A Safeguard Device for an Interface of a Fibre Adapter                                                       |
| TO-00333  | WO      | 182010056052      | 23-Dec-10   | WO2011/0         | 07-Jul-11 |            | A Safeguard Device for an Interface of a Fibre Adapter                                                       |
| TO-00335  | CN      | 201010108857.7    | 05-Feb-10   | 102147507        | 10-Aug-11 | ZL2010101  | A Safeguard Device for an Interface of a Fibre Adapter                                                       |
| TO-00336  | CN      | 201020173331.2    | 28-Apr-10   |                  |           | ZL2010200  | 17-Jul-13 Safety Device for an Optical Fiber Adapter                                                         |
| TO-00337  | CN      | 201020173330.8    | 23-Apr-10   |                  |           | ZL2010200  | Electric Connector                                                                                           |
| TO-00346  | CN      | 201030139291.5    | 25-Mar-10   |                  |           | ZL2010300  | 26-Jan-11 Electric Connector                                                                                 |
| TO-00346  | JP      | 2010-022732       | 22-Sep-10   |                  |           | 1432509    | 27-Oct-10 Sealing Module at end of Fibre Optic Junction Box                                                  |
| TO-00348  | CN      | 201010153048.8    | 16-Apr-10   |                  |           | ZL2010101  | Sealing Module at end of Fibre Optic Junction Box                                                            |
| TO-00348  | JP      | 2013-504367       | 06-Apr-11   | 2013-5258        | 20-Jun-13 |            | 17-Jul-13 Fiber Cable Junction Box                                                                           |
| TO-00348  | WO      | 182011051484      | 08-Apr-11   | WO2011/1         | 20-Oct-11 |            | Optical Fiber Cable Junction Box                                                                             |
| TO-00350  | EP      | 11168779.4        | 06-Jun-11   | 2393272          | 07-Dec-11 |            | Optical Fiber Cable Junction Box                                                                             |
| TO-00350  | CN      | 201020218836.6    | 07-Jun-10   |                  |           | ZL2010200  | Signal Splitting Circuit and Signal Splitter                                                                 |
| TO-00351  | EP      | 11168778.6        | 06-Jun-11   | 2393271          | 07-Dec-11 |            | Signal Splitting Circuit and Signal Splitter                                                                 |
| TO-00351  | CN      | 201020218838.5    | 07-Jun-10   |                  |           | ZL2010200  | Signal Splitting Circuit and Signal Splitter                                                                 |
| TO-00359  | CN      | 201020260298.1    | 13-Jul-10   |                  |           | ZL2010200  | 26-Jan-11 Signal Splitting Circuit and Signal Splitter                                                       |
| TO-00360  | CN      | 201010228118.1    | 13-Jul-10   | 102331608        | 25-Jan-12 |            | 30-Mar-11 Optical Fiber Splice Closure                                                                       |
| TO-00360  | CN      | 201020260297.2    | 13-Jul-10   |                  |           | ZL2010100  | Optical Fiber Splice Closure                                                                                 |
| TO-00360  | WO      | 182011053109      | 12-Jul-11   | WO2012/0         | 19-Jan-12 |            | Optical Fiber Splice Closure                                                                                 |
| TO-00366  | US      | 13/825283         | 20-Mar-13   |                  |           |            | Optical Fiber Splice Closure                                                                                 |
| TO-00366  | CN      | 201020543727.1    | 20-Sep-10   |                  |           | ZL2010200  | Optical Fiber Splice Closure                                                                                 |
| TO-00366  | WO      | 182011053972      | 12-Sep-11   | WO2012/0         | 29-Mar-12 |            | Optical Fiber Splice Closure                                                                                 |
| TO-00368  | US      | 13/207181         | 10-Aug-11   | 2012/00338       | 16-Feb-12 |            | Optical Fiber Splice Closure                                                                                 |
| TO-00368  | ZA      | 10-105850         | 10-Aug-11   |                  |           | 2011/0565  | Cable-Connector Enclosure Assembly                                                                           |
| TO-00368  | EP      | 201020289808.8    | 08-Aug-10   |                  |           | ZL2010200  | Cable Junction Box Assembly                                                                                  |
| TO-00368  | EP      | 11176966.8        | 08-Aug-10   | 2418744          | 15-Feb-12 |            | Cable-Connector Enclosure Assembly                                                                           |
| TO-00369  | US      | 13/212677         | 18-Aug-11   |                  |           | ZL2010200  | Seal Device for Sealing a Connector                                                                          |
| TO-00369  | CN      | 201020299236.7    | 18-Aug-10   |                  |           | ZL2010200  | Seal Device for Sealing a Connector                                                                          |
| TO-00369  | ZA      | 101/06044         | 17-Aug-11   | 2012/00443       | 23-Feb-12 | 2011/0604  | Seal Device for Sealing a Connector                                                                          |
| TO-00369  | EP      | 11177882.5        | 18-Aug-11   | 2421109          | 22-Feb-12 |            | Splice Closure                                                                                               |
| TO-00370  | CN      | 2010202628659.3   | 09-Sep-10   |                  |           | ZL2010200  | Splice Closure                                                                                               |
| TO-00370  | PE      | 000402-2013/DIN   | 08-Sep-11   |                  |           |            | North Separation Means, Line Distribution Module & Telecommunication Lines Distribution Assembly             |
| TO-00370  | WO      | 182011053387      | 08-Sep-11   | WO2012/0         | 16-Jan-12 |            | Socket Separating Device, Line Distribution Module and Telecommunication Line Distribution Assembly          |
| TO-00371  | CN      | 2010202628675.2   | 09-Sep-10   |                  |           | ZL2010200  | Socket Separating Device, Line Distribution Module and Telecommunication Line Distribution Assembly          |
| TO-00371  | PE      | 000401-2013/DIN   | 31-Aug-11   |                  |           |            | Telecommunication Lines Distribution Assembly                                                                |
| TO-00371  | WO      | 182011053389      | 31-Aug-11   | WO2012/0         | 15-Mar-12 |            | Telecommunication Lines Distribution Assembly                                                                |
| TO-00376  | CN      | 2010202656754.2   | 28-Sep-10   |                  |           | ZL2010200  | Telecommunication Line Distribution Assembly                                                                 |
| TO-00384  | CN      | 201020568384.X    | 28-Oct-10   |                  |           | ZL2010200  | Protector Module and Communication Module                                                                    |
|           |         |                   |             |                  |           |            | Cable Splicing Enclosure                                                                                     |

| Patent # | Country | Application #    | Filing Date | Publication Date | Patent # | Issue Date | Title                                                                                           |
|----------|---------|------------------|-------------|------------------|----------|------------|-------------------------------------------------------------------------------------------------|
| TO-00417 | CN      | 201120168230.7   | 20-May-11   |                  | ZL201120 | 01-Feb-12  | Signal Splitter and Signal Splitter Assembly                                                    |
| TO-00417 | PE      | 002557-2013/DIN  | 16-May-12   | 10-Nov-14        |          |            | Signal Splitter and Signal Splitter Assembly                                                    |
| TO-00417 | CO      | 102557-2013/DIN  | 16-May-12   | 20-Jan-14        |          |            | Signal Splitter and Signal Splitter Assembly                                                    |
| TO-00417 | CL      | 3286-2013        | 16-May-12   | 29-Aug-14        |          |            | Signal Splitter and Signal Splitter Assembly                                                    |
| TO-00417 | BR      | BR112013028413-7 | 16-May-12   |                  |          |            | Signal Splitter and Signal Splitter Assembly                                                    |
| TO-00417 | WO      | IB2012052442     | 16-May-12   | WO2012/1         |          |            | Signal Splitter and Signal Splitter Assembly                                                    |
| TO-00418 | TH      | 1301007470       | 27-Jun-12   |                  |          |            | Optical Fiber Splicing Assembly and Fiber Optic Connector Having the Same                       |
| TO-00418 | RU      | 2014103463       | 27-Jun-12   |                  |          |            | Optical Fiber Splicing Assembly and Fiber Optic Connector Having the Same                       |
| TO-00418 | CN      | 201110184521.3   | 01-Jul-11   | 102854576        |          |            | Optical Fiber Splicing Assembly and Fiber Optic Connector Having the Same                       |
| TO-00418 | CN      | 201120231222.6   | 01-Jul-11   |                  | ZL201120 | 21-Mar-12  | Optical Fiber Splicing Assembly and Optical Fiber Connector Having the Same                     |
| TO-00418 | PH      | 1-2014-500002    | 27-Jun-12   |                  |          |            | Optical Fiber Splicing Assembly and Optical Fiber Connector Having the Same                     |
| TO-00418 | MY      | P12013702590     | 27-Jun-12   |                  |          |            | Optical Fiber Splicing Assembly and Fiber Optic Connector Having the Same                       |
| TO-00418 | ID      | W400201306128    | 27-Jun-12   |                  |          |            | Optical Fiber Splicing Assembly and Fiber Optic Connector Having the Same                       |
| TO-00418 | WO      | IB2012053240     | 27-Jun-12   | WO2013/0         |          |            | Optical Fiber Splicing Assembly and Fiber Optic Connector Having the Same                       |
| TO-00419 | TH      | 1301007469       | 27-Jun-12   |                  |          |            | Optical Fiber Connector                                                                         |
| TO-00419 | RU      | 2014103464       | 27-Jun-12   |                  |          |            | Optical Fiber Connector                                                                         |
| TO-00419 | CN      | 201110184263.9   | 01-Jul-11   | 102854575        |          |            | Optical Fiber Connector                                                                         |
| TO-00419 | CN      | 201120231697.5   | 01-Jul-11   |                  | ZL201120 | 21-Mar-12  | Optical Fiber Connector                                                                         |
| TO-00419 | PH      | 1-2014-500003    | 27-Jun-12   |                  |          |            | Optical Fiber Connector                                                                         |
| TO-00419 | MY      | P12013702589     | 27-Jun-12   |                  |          |            | Optical Fiber Connector                                                                         |
| TO-00419 | ID      | W400201306127    | 27-Jun-12   |                  |          |            | Optical Fiber Connector                                                                         |
| TO-00419 | WO      | IB2012053239     | 27-Jun-12   | WO2013/0         |          |            | Optical Fiber Connector                                                                         |
| TO-00445 | CN      | 201110281494.1   | 23-Sep-11   | 103018845        |          |            | Plug of an Optical Fiber Connector                                                              |
| TO-00445 | CN      | 201120606048.7   | 23-Sep-11   |                  | ZL201120 | 04-Jul-12  | Plug of an Optical Fiber Connector                                                              |
| TO-00445 | WO      | IB2012054811     | 06-Sep-12   | WO2013/0         |          |            | Fiber Optic Connector with Shutter                                                              |
| TO-00446 | TH      | 1203001074       | 25-Sep-12   |                  | 8929     | 18-Jun-14  | Fiber Splicing Box                                                                              |
| TO-00446 | CN      | 201120363873.0   | 25-Sep-11   |                  | ZL201120 | 04-Jul-12  | Fiber Drop Closure with Fiber Guide                                                             |
| TO-00446 | ID      | S-00201200172    | 25-Sep-12   |                  |          |            | Fiber Splicing Box                                                                              |
| TO-00447 | TH      | 1203001073       | 25-Sep-12   |                  | 8928     | 18-Jun-14  | Fiber Splicing Box                                                                              |
| TO-00447 | CN      | 201120363239.4   | 25-Sep-11   |                  | ZL201120 | 25-Jul-12  | Fiber Splicing Box                                                                              |
| TO-00447 | ID      | S-00201200173    | 25-Sep-12   |                  |          |            | Fiber Splicing Box                                                                              |
| TO-00450 | CN      | 201110286534.1   | 23-Sep-11   | 103018844        |          |            | Plug of an Optical Fiber Connector                                                              |
| TO-00450 | CN      | 201120353394.X   | 23-Sep-11   |                  | ZL201120 | 04-Jul-12  | Plug of an Optical Fiber Connector                                                              |
| TO-00450 | WO      | IB2012054610     | 06-Sep-12   | WO2013/0         |          |            | Fiber Optic Connector with Shutter                                                              |
| TO-00451 | CN      | 201120441023.8   | 09-Nov-11   |                  | ZL201120 | 08-Aug-12  | Drawer Apparatus and Slide Apparatus for Optical Fiber Cables                                   |
| TO-00451 | WO      | IB2012056093     | 01-Nov-12   | WO2013/0         |          |            | Drawer Apparatus and Slide Apparatus for Optical Fiber Cables                                   |
| TO-00457 | CN      | 201120397726.5   | 18-Oct-11   |                  | ZL201120 | 04-Jul-12  | Circuit Protector                                                                               |
| TO-00479 | TH      | 1401004769       | 18-Feb-13   |                  |          |            | Sealing Ring, Cable Splicing Enclosure, and Method of Sealing Cable in Cable Splicing Enclosure |
| TO-00479 | AU      | 2012223756       | 18-Feb-13   |                  |          |            | Sealing Ring, Cable Splicing Enclosure, and Method of Sealing Cable in Cable Splicing Enclosure |
| TO-00479 | CN      | 201210037494.1   | 20-Feb-12   | 103257416        |          |            | Sealing Ring, Cable Splicing Enclosure and Method of Sealing Cable in Cable Splicing Enclosure  |
| TO-00479 | CN      | 201220054678.4   | 18-Feb-13   |                  | ZL201220 | 05-Sep-12  | Sealing Ring, Cable Splicing Enclosure, and Method of Sealing Cable in Cable Splicing Enclosure |
| TO-00479 | KR      | 10-2014-7028478  | 10-Feb-13   | 10-2014-0        |          |            | Sealing Ring, Cable Splicing Enclosure, and Method of Sealing Cable in Cable Splicing Enclosure |
| TO-00479 | VN      | 1-2014-02579     | 18-Feb-13   |                  |          |            | Sealing Ring, Cable Splicing Enclosure, and Method of Sealing Cable in Cable Splicing Enclosure |
| TO-00479 | PH      | 1-2014-501860    | 18-Feb-13   |                  |          |            | Sealing Ring, Cable Splicing Enclosure, and Method of Sealing Cable in Cable Splicing Enclosure |
| TO-00479 | IN      | 7374DELNP/2014   | 18-Feb-13   |                  |          |            | Sealing Ring, Cable Splicing Enclosure, and Method of Sealing Cable in Cable Splicing Enclosure |
| TO-00479 | ID      | P-00201404073    | 18-Feb-13   |                  |          |            | Sealing Ring, Cable Splicing Enclosure, and Method of Sealing Cable in Cable Splicing Enclosure |
| TO-00479 | WO      | IB2013051314     | 18-Feb-13   | WO2013/1         |          |            | Fiber Optic Connector                                                                           |
| TO-00494 | EP      | 13713229.6       | 29-Jan-13   |                  |          |            | Fiber Optic Connector                                                                           |
| TO-00494 | AU      | 2013217368       | 29-Jan-13   |                  |          |            | Fiber Optic Connector                                                                           |
| TO-00494 | RU      | 2014136526       | 29-Jan-13   |                  |          |            | Fiber Optic Connector                                                                           |
| TO-00494 | CN      | 201220041199.9   | 09-Feb-12   |                  | ZL201220 | 28-Nov-12  | Fiber Optic Connector                                                                           |
| TO-00494 | KR      | 10-2014-7025375  | 29-Jan-13   | 10-2014-0        |          |            | Fiber Optic Connector                                                                           |
| TO-00494 | ZA      | 2014056832       | 29-Jan-13   |                  |          |            | Fiber Optic Connector                                                                           |
| TO-00494 | JP      | 2014-556162      | 29-Jan-13   |                  |          |            | Fiber Optic Connector                                                                           |
| TO-00494 | IN      | 7136DELNP/2014   | 29-Jan-13   |                  |          |            | Fiber Optic Connector                                                                           |
| TO-00494 | WO      | IB2013050749     | 29-Jan-13   | WO2013/1         |          |            | Fiber Optic Connector                                                                           |
| TO-00503 | CN      | 201220085165.7   | 08-Mar-12   |                  | ZL201220 | 24-Oct-12  | Fiber Cable Stripping Auxiliary Tool                                                            |
| TO-00503 | CN      | 201220059888.X   | 08-Mar-12   |                  |          |            | Fiber Cable Stripping Auxiliary Tool                                                            |
| TO-00503 | WO      | IB2013051774     | 08-Mar-13   | WO2013/1         |          |            | Optic Cable Stripping Auxiliary Tool                                                            |
| TO-00526 | CN      | 201220249891.0   | 30-May-12   |                  | ZL201220 | 05-Dec-12  | Apparatus Cabinet                                                                               |
| TO-00527 | NZ      | 610120           | 02-May-13   |                  |          |            | Optical Fiber Junction Box                                                                      |
| TO-00527 | AU      | 2013203613       | 11-Apr-13   |                  |          |            | Optical Fiber Junction Box                                                                      |
| TO-00527 | CN      | 201210135297.3   | 03-May-12   | 103383484        |          |            | Optical Fiber Junction Box                                                                      |
| TO-00527 | CN      | 201220194867.1   | 03-May-12   |                  | ZL201220 | 05-Dec-12  | System and Method for Processing End Surface of Optical Fiber                                   |
| TO-00532 | US      | 14/707,474       | 06-Nov-13   |                  |          |            | System and Method for Processing End Surface of Optical Fiber                                   |
| TO-00532 | CN      | 201210445763.8   | 09-Nov-12   | 103809245        |          |            | System for Processing End Surface of Optical Fiber                                              |
| TO-00532 | CN      | 2012205891546.5  | 09-Nov-12   |                  | ZL201220 | 05-Jun-13  | System for Processing End Surface of Optical Fiber                                              |
| TO-00532 | WO      | IB2013059937     | 06-Nov-13   | WO2014/0         |          |            | System and Method for Processing End Surface of Optical Fiber                                   |
| TO-00532 | EP      | 13792501.2       | 06-Nov-13   |                  |          |            | System and Method for Processing End Surface of Optical Fiber                                   |

| Patent # | Country | Application #    | Filing Date | Publication Date | Patent #  | Issue Date | Title                                                                                                                                            |
|----------|---------|------------------|-------------|------------------|-----------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| TO-00547 | CN      | 201210401108.2   | 19-Oct-12   | 103/77727        | 07-May-14 |            | Machine and Method for Thermally Stripping Optical Cables                                                                                        |
| TO-00547 | CN      | 201220539080.4   | 18-Oct-12   |                  |           | ZL2012206  | Machine and Method for Thermally Stripping Optical Cables                                                                                        |
| TO-00547 | WO      | IB2013/0509453   | 18-Oct-12   | WO2014/0         | 24-Apr-14 |            | Machine and Method for Thermally Stripping Optical Cables                                                                                        |
| TO-00553 | CN      | 201210400641.7   | 19-Oct-12   | 103/77727        | 07-May-14 |            | Method and System for Stripping Optical Cables                                                                                                   |
| TO-00553 | CN      | 201220539088.0   | 19-Oct-12   |                  |           | ZL2012206  | System for Stripping Optical Cables                                                                                                              |
| TO-00553 | WO      | IB2013/0508880   | 26-Sep-13   | WO2014/0         | 24-Apr-14 |            | System and Method for Stripping Optical Cables                                                                                                   |
| TO-00560 | TH      | 1301004875       | 02-Sep-13   |                  |           |            | Fiber Optic Connector                                                                                                                            |
| TO-00560 | RU      | 20131140469      | 02-Sep-13   |                  |           | 143329     | Fiber Optic Connector                                                                                                                            |
| TO-00560 | CN      | 201220443207.2   | 03-Sep-12   |                  |           | ZL2012204  | Fiber Optic Connector                                                                                                                            |
| TO-00560 | BR      | BR202043202036.7 | 28-Aug-13   |                  |           |            | Fiber Optic Connector                                                                                                                            |
| TO-00561 | US      | 14/693.523       | 22-Apr-15   |                  |           |            | RFID-Enabled Optical Adapter for use with a Patch Panel                                                                                          |
| TO-00561 | US      | 13/939830        | 11-Jul-13   |                  |           |            | RFID-Enabled Optical Adapter for use with a Patch Panel                                                                                          |
| TO-00561 | US      | 81/870357        | 11-Jul-12   |                  |           |            | RFID-Enabled Optical Adapter for use with a Patch Panel                                                                                          |
| TO-00561 | AU      | 2013288772       | 11-Jul-13   |                  |           |            | RFID-Enabled Optical Adapter for use with a Patch Panel                                                                                          |
| TO-00561 | NZ      | 709554           | 11-Jul-13   |                  |           |            | RFID-Enabled Optical Adapter for use with a Patch Panel                                                                                          |
| TO-00561 | EP      | 13739956.0       | 11-Jul-13   |                  |           |            | RFID-Enabled Optical Adapter for use with a Patch Panel                                                                                          |
| TO-00561 | BR      |                  | 11-Jul-13   |                  |           |            | RFID-Enabled Optical Adapter for use with a Patch Panel                                                                                          |
| TO-00561 | CN      | 3502.14          | 11-Jul-13   |                  |           |            | RFID-Enabled Optical Adapter for use with a Patch Panel                                                                                          |
| TO-00561 | MX      | MX/a/2015/000319 | 11-Jul-13   |                  |           |            | RFID-Enabled Optical Adapter for use with a Patch Panel                                                                                          |
| TO-00561 | WO      | EP2013/064670    | 11-Jul-13   | WO2014/0         | 16-Jan-14 |            | RFID-Enabled Optical Adapter for use with a Patch Panel                                                                                          |
| TO-00563 | US      | 14/616198        | 06-Feb-15   |                  |           |            | RFID-Enabled Optical Adapter for use with a Patch Panel                                                                                          |
| TO-00563 | ID      | P-00201500609    | 02-Aug-13   |                  |           |            | Fiber Optic Splicing Assembly                                                                                                                    |
| TO-00563 | CN      | 201210280488.9   | 07-Aug-12   | 103576286        | 12-Feb-14 |            | Fiber Optic Splicing Assembly                                                                                                                    |
| TO-00563 | CN      | 201220389224.2   | 07-Aug-12   |                  |           | ZL2012203  | Fiber Optic Splicing Assembly                                                                                                                    |
| TO-00563 | CN      | 201230368242.8   | 07-Aug-12   |                  |           | ZL2012303  | Optical Fiber Termination Box                                                                                                                    |
| TO-00563 | AU      |                  |             |                  |           |            | Fiber Optic Splicing Assembly                                                                                                                    |
| TO-00563 | JP      |                  | 02-Aug-13   |                  |           |            | Fiber Optic Splicing Assembly                                                                                                                    |
| TO-00563 | IN      |                  | 02-Aug-13   |                  |           |            | Fiber Optic Splicing Assembly                                                                                                                    |
| TO-00563 | NZ      |                  |             |                  |           |            | Fiber Optic Splicing Assembly                                                                                                                    |
| TO-00563 | EP      |                  |             |                  |           |            | Fiber Optic Splicing Assembly                                                                                                                    |
| TO-00563 | WO      | IB2013/0563339   | 02-Aug-13   | WO2014/0         | 13-Feb-14 |            | Fiber Optic Splicing Assembly                                                                                                                    |
| TO-00569 | CN      | 201210371302.0   | 28-Sep-12   | 103/713362       | 09-Apr-14 |            | Optical Fiber Connector Assembly                                                                                                                 |
| TO-00569 | CN      | 201220503171.2   | 28-Sep-12   |                  |           | ZL2012205  | Optical Fiber Connector Assembly                                                                                                                 |
| TO-00569 | WO      | IB2013/058230    | 02-Sep-13   | WO2014/0         | 03-Apr-14 |            | Optical Fiber Connector Assembly                                                                                                                 |
| TO-00571 | CN      | 201310132801.9   | 17-Apr-13   |                  |           |            | Optical Fiber Connector Assembly                                                                                                                 |
| TO-00571 | CN      | 201320192678.8   | 17-Apr-13   |                  |           |            | Optical Fiber Connector Assembly                                                                                                                 |
| TO-00571 | WO      | IB2014/0060792   | 17-Apr-14   | WO2014/1         | 23-Oct-14 |            | Adapter, Expansion Device for Adapter, Replacement Tool Used Together with Expansion Device, Replacement Assembly and Method of Replacing Sleeve |
| TO-00574 | CN      | 201210401680.2   | 19-Oct-12   | 103/777286       | 07-May-14 |            | Adapter, Expansion Device for Adapter, Replacement Tool Used Together with Expansion Device, Replacement Assembly and Method of Replacing Sleeve |
| TO-00574 | CN      | 201220537946.8   | 19-Oct-12   |                  |           | ZL2012205  | Device And Method for Inserting Bare Fibers of a Plurality of Optical Cables, Optical Cable Carrying Assembly                                    |
| TO-00586 | AU      | 2013267081       | 09-Dec-13   |                  |           |            | Optical Cable Carrying Assembly and Device for Inserting Bare Fibers of a Plurality of Optical Cables                                            |
| TO-00586 | CN      | 201220680484.9   | 11-Dec-12   |                  |           | ZL2012206  | Insect-Proof Box                                                                                                                                 |
| TO-00586 | ZA      | 2013/09280       | 10-Dec-13   |                  |           |            | Insect-Proof Box                                                                                                                                 |
| TO-00587 | CN      | 201310014463.9   | 15-Jan-13   | 103928657        | 16-Jul-14 |            | Dust Apparatus and Connector Assembly                                                                                                            |
| TO-00587 | CN      | 201320021109.4   | 15-Jan-13   |                  |           | ZL2013200  | Dust Apparatus and Connector Assembly                                                                                                            |
| TO-00597 | US      |                  |             |                  |           |            | Dust-Proof Apparatus and Fiber Optic Connector Assembly                                                                                          |
| TO-00597 | CN      | 201220688889.5   | 14-Dec-12   |                  |           | ZL2012206  | Dust-Proof Apparatus and Fiber Optic Connector Assembly                                                                                          |
| TO-00597 | WO      | IB2013/060573    | 02-Dec-13   | WO2014/0         | 19-Jun-14 |            | Dust-Proof Apparatus and Fiber Optic Connector Assembly                                                                                          |
| TO-00597 | AU      | 2013356885       | 26-May-15   |                  |           |            | Dust-Proof Apparatus and Fiber Optic Connector Assembly                                                                                          |
| TO-00598 | CN      | 2012206888817.0  | 14-Dec-12   |                  |           | ZL2012206  | Optical Cable Connection Box                                                                                                                     |
| TO-00605 | CN      | 201310200319.4   | 27-May-13   | 104181645        | 03-Dec-14 |            | Optical Fiber Connector, Methods for Producing and Assembling the Same                                                                           |
| TO-00605 | CN      | 2013202693412.X  | 27-May-13   |                  |           | ZL2013202  | Optical Fiber Connector                                                                                                                          |
| TO-00607 | CN      | 201320103626.6   | 07-Mar-13   |                  |           | ZL2013201  | Hold Hoop for Cable Enclosure                                                                                                                    |
| TO-00608 | US      |                  |             |                  |           |            | Device for Fixing Wires                                                                                                                          |
| TO-00608 | CN      | 201310051797.3   | 08-Feb-13   | 103984070        | 13-Aug-14 |            | Device for Fixing Wires                                                                                                                          |
| TO-00608 | CN      | 201320074584.1   | 08-Feb-13   |                  |           | ZL2013200  | Device for Fixing Wires                                                                                                                          |
| TO-00608 | WO      | IB2014/056595    | 28-Jan-14   | WO2014/1         | 14-Aug-14 |            | Device for Fixing Wires                                                                                                                          |
| TO-00608 | EP      | 14704677.5       | 28-Jan-14   |                  |           |            | Device for Fixing Wires                                                                                                                          |
| TO-00609 | CN      | 201320099684.9   | 05-Mar-13   |                  |           | ZL2013200  | Structure for Mounting Screw or Bolt                                                                                                             |
| TO-00610 | CN      | 201310045495.5   | 05-Feb-13   | 103968772        | 06-Aug-14 |            | Seal for Supporting Optical Cable Connection Box                                                                                                 |
| TO-00611 | CN      | 201310050839.1   | 08-Feb-13   | 103984086        | 13-Aug-14 |            | Optical Cable Junction Closure and Optical Cable Junction Closure Assembly                                                                       |
| TO-00611 | CN      | 201320072690.2   | 08-Feb-13   |                  |           | ZL2013200  | Optical Cable Junction Closure and Optical Cable Junction Closure Assembly                                                                       |
| TO-00613 | CN      | 201320108353.4   | 11-Mar-13   |                  |           | ZL2013201  | Protecting Box for Joint and Joint Assembly                                                                                                      |
| TO-00626 | CN      | 201310068090.6   | 18-Mar-13   | 104064903        | 24-Sep-14 |            | Connector, Locking Apparatus                                                                                                                     |
| TO-00626 | CN      | 201320121976.5   | 18-Mar-13   |                  |           | ZL2013201  | Connector, Locking Apparatus                                                                                                                     |
| TO-00627 | CN      | 201320169185.2   | 07-Apr-13   |                  |           | ZL2013201  | Optical Fiber Connector Seal Assembly                                                                                                            |
| TO-00634 | CN      | 201310186104.1   | 20-May-13   | 104168205        | 26-Nov-14 |            | Communications Line Cabling Tool, Communications Line Drop Access Assembly And Communications Line Drop Access Method                            |
| TO-00634 | CN      | 201320274526.X   | 20-May-13   |                  |           | ZL2013202  | Communication Line Cabling Tool And Communications Line Drop Access Assembly                                                                     |

| Patent # | Country | Application #   | Filing Date | Publication Date | Patent #  | Issue Date | Title                                                                                                |
|----------|---------|-----------------|-------------|------------------|-----------|------------|------------------------------------------------------------------------------------------------------|
| TO-00634 | WO      | IB2014/061530   | 19-May-14   | WO2014/1         | 201410032 | 17-Apr-14  | Fiber Optic Connection Assembly                                                                      |
| TO-00637 | AU      | 2014100325      | 04-Apr-14   |                  |           |            | Optical Fiber Connection Assembly for Fiber to Home                                                  |
| TO-00637 | CN      | 2013101117198.7 | 07-Apr-13   | 104101953        | 15-Oct-14 |            | Optical Fiber Connection Assembly for Fiber to Home                                                  |
| TO-00637 | CN      | 201320168325.1  | 07-Apr-13   |                  | ZL2013201 | 14-Aug-13  | Optical Fiber Connection Assembly                                                                    |
| TO-00637 | WO      | IB2014/060209   | 27-Mar-14   | WO2014/1         | 16-Oct-14 |            | Optical Fiber Connection Assembly                                                                    |
| TO-00637 | AU      | 2014101479      | 27-Mar-14   |                  | 201410147 | 24-Dec-14  | Optical Fiber Connection Assembly                                                                    |
| TO-00638 | CN      | 201310198294.0  | 24-May-13   | 104181642        | 03-Dec-14 |            | Optical Fiber Ferrule Assembly, Method of Producing the same, Connector and Connector Assembly       |
| TO-00638 | CN      | 201320290866.9  | 24-May-13   |                  | ZL2013202 | 23-Oct-13  | Optical Fiber Ferrule Assembly, Method of Producing the same, Connector and Connector Assembly       |
| TO-00638 | WO      | IB2014/061133   | 01-May-14   | WO2014/1         | 27-Nov-14 |            | Fiber Optic Ferrule Assembly, Method for Producing the same, Connector and Connector Assembly        |
| TO-00642 | CN      | 201310222624.7  | 06-Jun-13   | 104238047        | 24-Dec-14 |            | System and Method for Interconnecting Objects with Optical Fibers                                    |
| TO-00642 | WO      | IB2014/061888   | 02-Jun-14   | WO2014/1         | 11-Dec-14 |            | System and Method for Interconnecting Objects with Optical Fibers                                    |
| TO-00649 | WO      | EP2014/059733   | 13-May-14   | WO2014/1         | 20-Nov-14 |            | Optical Sensor, Optical Sensor Assembly and Monitoring Device                                        |
| TO-00650 | CN      | 201310228442.3  | 07-Jun-13   | 104181645        | 03-Dec-14 |            | Alignment Tool, Alignment Method, Optical Fiber Ferrule Assembly, Optical Fiber Connector            |
| TO-00650 | WO      | 201320326093.1  | 07-Jun-13   |                  | ZL2013203 | 20-Nov-13  | Alignment Tool                                                                                       |
| TO-00650 | WO      | IB2014/061971   | 05-Jun-14   | WO2014/1         | 11-Dec-14 |            | Alignment Tool, Alignment Method, Optical Fiber Ferrule Assembly, Optical Fiber Connector            |
| TO-00655 | CN      | 201310228168.7  | 07-Jun-13   | 104181644        | 03-Dec-14 |            | Alignment Tool, Alignment Method, Optical Fiber Ferrule Assembly, Optical Fiber Connector            |
| TO-00655 | CN      | 201320328389.3  | 07-Jun-13   |                  | ZL2013203 | 20-Nov-13  | Alignment Tool, Alignment Method, Optical Fiber Ferrule Assembly, Optical Fiber Connector            |
| TO-00658 | CN      | 201310223485.6  | 06-Jun-13   | 104238597        | 24-Dec-14 |            | Optical Sensor, Optical Sensor Assembly and Monitoring Device                                        |
| TO-00657 | CN      | 201320464453.0  | 31-Jul-13   |                  | ZL2013204 | 25-Dec-13  | Fixture for Ferrules of Fiber Optic Connectors                                                       |
| TO-00658 | CN      | 201320474205.4  | 05-Aug-13   |                  | ZL2013204 | 05-Feb-14  | Fiber Optic Connector Having Radio Frequency Identification Tag                                      |
| TO-00658 | WO      | IB2014/063174   | 17-Jul-14   |                  |           |            | Fiber Optic Connector Having Radio Frequency Identification Tag                                      |
| TO-00660 | US      | 61/840215       | 27-Jun-13   |                  |           |            | Adapter with RFID Managed Connectivity                                                               |
| TO-00660 | US      | 61/840793       | 28-Jun-13   |                  |           |            | Adapter with RFID Managed Connectivity                                                               |
| TO-00662 | WO      | CN2014/072099   | 14-Feb-14   |                  |           |            | Managed Connectivity in an Optical Distribution Frame                                                |
| TO-00668 | CN      | 201310306239.7  | 19-Jul-13   | 104297871        | 21-Jan-15 |            | System and Method for Interconnecting Objects with Optical Fiber                                     |
| TO-00668 | WO      | IB2014/063028   | 11-Jul-14   | WO2015/0         | 22-Jan-15 |            | System and Method for Interconnecting Objects with Optical Fibers                                    |
| TO-00672 | CN      | 201310428328.9  | 18-Sep-13   |                  |           |            | Fiber Inserting Apparatus and Fiber Inserting Method                                                 |
| TO-00672 | CN      | 201320581145.6  | 18-Sep-13   |                  | ZL0132058 | 09-Apr-14  | Fiber Inserting Apparatus                                                                            |
| TO-00672 | WO      | IB2014/064170   | 01-Sep-14   |                  |           |            | Automatic Optical Fiber Inserting Apparatus and Fiber Inserting Method                               |
| TO-00675 | CN      | 201310448291.8  | 27-Sep-13   |                  |           |            | Alignment Device for Fiber Ferrule, Fiber Alignment Device and Method                                |
| TO-00675 | WO      | IB2014/064171   | 01-Sep-14   |                  |           |            | Alignment Device for Fiber Ferrule, Fiber Alignment Machine and Fiber Alignment Method               |
| TO-00678 | CN      | 201310441909.6  | 25-Sep-13   |                  |           |            | Device for Mounting Sensor                                                                           |
| TO-00678 | CN      | 201320594217.0  | 25-Sep-13   |                  | ZL2013205 | 02-Apr-14  | Device for Mounting Sensor                                                                           |
| TO-00684 | CN      | 201320831508.2  | 12-Oct-13   |                  | ZL2013206 | 28-May-14  | Fiber Optic Connector Having Radio Frequency Identification Tag and Fiber Optic Connection Apparatus |
| TO-00684 | WO      | IB2014/065202   | 10-Oct-14   |                  |           |            | Fiber Optic Connector Having Radio Frequency Identification Tag and Optical Fiber Connection Device  |
| TO-00691 | CN      | 201310625290.4  | 28-Nov-13   |                  |           |            | Optical Fiber Cleaner and Method for Cleaning Optical Fiber                                          |
| TO-00691 | WO      | IB2014/065955   | 11-Nov-14   |                  |           |            | Optical Fiber Cleaner and Method for Cleaning Optical Fiber                                          |
| TO-00693 | CN      | 201310555118.6  | 07-Nov-13   |                  |           |            | Fiber Optic Connector, Ferrule and Method for Producing the Ferrule                                  |
| TO-00695 | CN      | 201310547118.1  | 07-Nov-13   |                  |           |            | Ferrule and Method for Manufacturing the same, Fiber Optic Connector                                 |
| TO-00695 | WO      | IB2014/065788   | 04-Nov-14   |                  |           |            | Fiber Optic Connector Assembly and Method for Producing the Same                                     |
| TO-00700 | CN      | 201410015878.2  | 14-Jan-14   |                  |           |            | Fiber Optic Connector Assembly and Method for Manufacturing the Same                                 |
| TO-00700 | CN      | 201420021777.1  | 14-Jan-14   |                  | ZL2014200 | 18-Jun-14  | Alignment System, Alignment Method, Fiber Optic Ferrule Assembly, Fiber Optic Connector              |
| TO-00700 | WO      | IB2014/050167   | 09-Jan-15   |                  |           |            | Alignment System                                                                                     |
| TO-00703 | CN      | 201410057920.7  | 20-Feb-14   |                  |           |            | Locating and Release-preventing Device, Insertion-connection Assembly with the Same                  |
| TO-00703 | CN      | 201420073764.6  | 20-Feb-14   |                  | ZL2014200 | 09-Jul-14  | Locating and Release-preventing Device, Insertion-connection Assembly with the Same                  |
| TO-00705 | WO      | IB2015/050901   | 09-Feb-15   |                  |           |            | Fiber Optic Connector and Method of Assembling the Same                                              |
| TO-00705 | CN      | 201410051670.6  | 14-Feb-14   |                  |           |            | Fiber Optic Connector and Method for Assembling the Same                                             |
| TO-00705 | CN      | 201420066393.1  | 14-Feb-14   |                  | ZL2014200 | 02-Jul-14  | Fiber Optic Connector                                                                                |
| TO-00706 | CN      | 201410048594.3  | 12-Feb-14   |                  |           |            | Fiber Optic Connector and Method of Assembling the Same                                              |
| TO-00706 | CN      | 201420065801.1  | 12-Feb-14   |                  | ZL2014200 | 02-Jul-14  | Fiber Optic Connector                                                                                |
| TO-00707 | WO      | EP2014/070396   | 24-Sep-14   |                  |           |            | Device and Method for Mounting a Sensor and for Sealing a Cabinet                                    |
| TO-00715 | CN      | 201420097156.1  | 05-Mar-14   |                  | ZL2014200 | 10-Sep-14  | Optical Cable Connection Box                                                                         |
| TO-00718 | WO      |                 |             |                  |           |            |                                                                                                      |
| TO-00718 | WO      | 201420114240.X  | 13-Mar-14   |                  | ZL2014200 | 13-Aug-14  | Cable Termination and Fiber Optic Distributor                                                        |
| TO-00718 | WO      | IB2015/051543   | 03-Mar-15   |                  |           |            | Fiber Cable Terminal and Fiber Distributor                                                           |
| TO-00719 | CN      | 201410016577.1  | 14-Jan-14   |                  |           |            | Alignment System, Alignment Method, Fiber Optic Ferrule Assembly, Fiber Optic Connector              |
| TO-00719 | CN      | 201420020768.7  | 14-Jan-14   |                  | ZL2014200 | 18-Jun-14  | Alignment System                                                                                     |
| TO-00719 | WO      | IB2015/050100   | 08-Jan-15   |                  |           |            | Alignment System and Method for Calibrating Position of Optical Fiber in Bore of Ferrule             |
| TO-00720 | CN      | 201420125994.3  | 19-Mar-14   |                  | ZL2014200 | 23-Jul-14  | Limit Device                                                                                         |
| TO-00721 | CN      | 201410133134.0  | 03-Apr-14   |                  |           |            | Fiber Optic Connector Assembly                                                                       |
| TO-00721 | CN      | 201420160855.0  | 03-Apr-14   |                  | ZL2014200 | 10-Sep-14  | Fiber Optic Connector Assembly                                                                       |
| TO-00735 | CN      | 201410150782.7  | 15-Apr-14   |                  |           |            | Device for Splicing and Protecting Optical Cables and Method for Mounting the Device                 |
| TO-00735 | CN      | 201420181283.3  | 15-Apr-14   |                  | ZL2014200 | 13-Aug-14  | Device for Splicing and Protecting Optical cables                                                    |
| TO-00735 | WO      | 2015/076682     | 15-Apr-15   |                  |           |            | Device for Splicing and Protecting Optical Cables and Method for Mounting the Device                 |
| TO-00736 | CN      | 201410150778.0  | 15-Apr-14   |                  |           |            | Device for Splicing and Protecting Optical Cables                                                    |
| TO-00736 | CN      | 201420182132.6  | 15-Apr-14   |                  | ZL2014200 | 13-Aug-14  | Device for Splicing and Protecting Optical Cables                                                    |
| TO-00736 | WO      | 2015/076683     | 15-Apr-15   |                  |           |            | Device for Splicing and Protecting Optical Cables and Method for Mounting the Device                 |
| TO-00737 | CN      | 201410150418.0  | 15-Apr-14   |                  |           |            | Device for Splicing and Protecting Optical Cables and Method for Mounting the Device                 |

| Patent # | Country | Application #     | Filing Date | Publication Date | Patent #  | Issue Date | Title                                                                                                    |
|----------|---------|-------------------|-------------|------------------|-----------|------------|----------------------------------------------------------------------------------------------------------|
| TO-00737 | CN      | 201420182135.X    | 15-Apr-14   |                  | ZL2014201 | 13-Aug-14  | Device for Splicing and Protecting Optical Cables                                                        |
| TO-00737 | WO      | CN2015/076881     | 15-Apr-15   |                  |           |            | Device for Splicing and Protecting Optical Cables and Method for Mounting the Device                     |
| TO-00738 | CN      | 201410043282.7    | 29-Jan-14   |                  |           |            | Cable Pulling Assembly, Method of Assembling and Disassembling the Same                                  |
| TO-00738 | WO      | IB2015/050299     | 15-Jan-15   |                  |           |            | Cable Pulling Assembly                                                                                   |
| TO-00739 | WO      | IB2015/050980     | 10-Feb-15   |                  |           |            |                                                                                                          |
| TO-00739 | CN      | 201420066639.5    | 14-Feb-14   |                  | ZL2014201 | 10-Sep-14  | Fiber Optic Connector                                                                                    |
| TO-00739 | CN      | 201410052557.X    | 14-Feb-14   |                  |           |            | Fiber Optic Connector and Method for Assembling the Same                                                 |
| TO-00744 | CN      | 201510119797.1    | 18-Mar-15   |                  |           |            | Dust Cap for Fiber Optic Adapter & Fiber Optic Connection Assembly                                       |
| TO-00760 | US      | 62015105          | 20-Jun-14   |                  |           |            | Low Loss Hardened Fiber Optic Connector                                                                  |
| TO-00764 | CN      | 201410180608.7    | 30-Apr-14   |                  | ZL2014201 | 10-Sep-14  | A Type of Enhanced Multi-function HMFOC Fiber Connector                                                  |
| TO-00765 | CN      | 201420219291.9    | 30-Apr-14   |                  |           |            | SYSTEM AND METHOD FOR PROTECTING OPTICAL FIBER SPLICE                                                    |
| TO-00766 | CN      | 201410741182.8    | 04-Dec-14   |                  |           |            | FIBER OPTIC CONNECTOR                                                                                    |
| TO-00768 | CN      | 201420700716.8    | 28-Nov-14   |                  |           |            | Protect Cap, Ferrule Assembly, Fiber Optic Connector, Method for Assembling Connector, Drawing Assembly  |
| TO-00767 | CN      | 201410181114.0    | 30-Apr-14   |                  | ZL2014201 | 20-Aug-14  | Protect Cap, Ferrule Assembly, Fiber Optic Connector, Method for Assembling Connector, Drawing Assembly  |
| TO-00772 | CN      | 201420220490.1    | 30-Apr-14   |                  |           |            | Fiber Optic Connector RFID Tag                                                                           |
| TO-00773 | CN      | 201420700378.8    | 20-Nov-14   |                  | ZL2014201 | 12-Nov-14  | FIBER OPTIC ADAPTER FIXATION SEAT AND FIBER CONNECTION APPARATUS                                         |
| TO-00781 | CN      | 201410324522.7    | 09-Jul-14   |                  |           |            | Fiber Optic Connector and Method of Assembling the Same in the Field                                     |
| TO-00782 | CN      | 201410394691.8    | 12-Aug-14   |                  |           |            | Aerial Closure                                                                                           |
| TO-00782 | CN      | 201420452155.4    | 12-Aug-14   |                  | ZL2014201 | 10-Dec-14  | Aerial Closure                                                                                           |
| TO-00782 | ID      |                   |             |                  |           |            | Aerial Closure                                                                                           |
| TO-00783 | CN      | 201410309407.2    | 01-Jul-14   |                  |           |            | Fiber Optic Ferrule Assemble and Fiber Optic Ferrule Device                                              |
| TO-00783 | WO      | IB2015/054861     | 01-Jul-15   |                  |           |            | Fiber Optic Ferrule Assemble and Fiber Optic Ferrule Device                                              |
| TO-00784 | CN      | 201410309000.X    | 01-Jul-14   |                  |           |            | Fiber Optic Ferrule Device and Method for Manufacturing the Same                                         |
| TO-00785 | CN      | 201410309266.4    | 01-Jul-14   |                  |           |            | Fiber Optic Alignment Device, Fiber Optic Ferrule Device and Method for Manufacturing the Same           |
| TO-00785 | WO      | IB2015/0504955    | 01-Jul-15   |                  |           |            | Fiber Optic Alignment Device, Fiber Optic Ferrule Device and Method for Manufacturing the Same           |
| TO-00786 | CN      | 201410309082.8    | 01-Jul-14   |                  |           |            | Fiber Optic Ferrule Device, Apparatus and Method for Manufacturing the Same                              |
| TO-00788 | CN      | 201410287048.5    | 24-Jun-14   |                  |           |            | Fiber Optic Connector, Method of Producing the Same, Method of Assembling the Same, and Pulling Assembly |
| TO-00788 | WO      | IB2015/054593     | 18-Jun-15   |                  |           |            | Towing Assembly, Fiber Optic Connector and Methods of Producing and Assembling the Same                  |
| TO-00795 | CN      | 201420384146.8    | 11-Jul-14   |                  | ZL2014201 | 21-Jan-15  | Fiber Optic Connection Assembly and Method                                                               |
| TO-00797 | WO      | PCT/CN2014/094391 | 19-Dec-14   |                  |           |            | Hardened Fiber Optic Connector with Pre-compressed Spring                                                |
| TO-00803 | CN      | 201410740037.8    | 05-Dec-14   |                  |           |            | METHOD OF MANUFACTURING OPTICAL CABLE                                                                    |
| TO-00804 | CN      | 201410418211.7    | 22-Aug-14   |                  |           |            | Fiber Optic Ferrule Assembly and Method for Manufacturing the Same                                       |
| TO-00806 | CN      | 201410381838.8    | 11-Aug-14   |                  |           |            | Fiber Optic Ferrule Device and Method for Manufacturing the Same                                         |
| TO-00807 | CN      | 201410386088.2    | 08-Aug-14   |                  |           |            | Fiber Optic Ferrule Assemble and Fiber Optic Ferrule Device                                              |
| TO-00809 | CN      | 201420560176.8    | 28-Sep-14   |                  |           |            | Fiber Optic Connector                                                                                    |
| TO-00809 | CN      | 201410502692.X    | 28-Sep-14   |                  |           |            | FIBER OPTIC CONNECTOR AND METHOD OF ASSEMBLING THE SAME                                                  |
| TO-00834 | CN      | 201410673296.3    | 21-Nov-14   |                  |           |            | OPTICAL CABLE DISTRIBUTION SYSTEM AND OPTICAL CABLE CONNECTION ASSEMBLY                                  |
| TO-00840 | CN      | 201520355471.4    | 28-May-15   |                  |           |            | Optical Cable Fan-out Device                                                                             |
| TO-00845 | CN      | 201510004795.8    | 06-Jan-15   |                  |           |            | New Type of Outdoor Plastic Closure Latch Spring                                                         |
| TO-00845 | CN      | 201520008150.3    | 06-Jan-15   |                  |           |            | Fiber Optic Connector & Methods of Assembling & Disassembling the Same                                   |
| TO-00846 | CN      | 201520007616.1    | 06-Jan-15   |                  |           |            | Fiber Optic Connector                                                                                    |
| TO-00846 | CN      |                   | 06-Jan-15   |                  |           |            | OPTICAL CABLE CLAMP                                                                                      |
| TO-00867 | CN      | 201510218948.5    | 30-Apr-15   |                  |           |            | OPTICAL CABLE CLAMP AND METHOD OF FIXING OPTICAL CABLE ON OPTICAL CABLE CLAMP                            |
| TO-00867 | CN      | 201520271963.3    | 30-Apr-15   |                  |           |            | ELASTIC SEALING MEMBER AND SEALING ASSEMBLY                                                              |
| TO-00871 | CN      | 201510247621.4    | 15-May-15   |                  |           |            | ELASTIC SEALING MEMBER AND SEALING ASSEMBLY                                                              |
| TO-00871 | CN      | 201520319609.5    | 15-May-15   |                  |           |            | Alignment Sleeve Assembly and Fiber Optic Adaptor                                                        |
| TO-00876 | CN      |                   | 23-Jun-15   |                  |           |            | Alignment Sleeve Assembly and Fiber Optic Adaptor                                                        |
| TO-00876 | CN      |                   | 23-Jun-15   |                  |           |            | Fiber Optic Connector Assembly                                                                           |
| TO-00876 | CN      | 201510350553.4    | 23-Jun-15   |                  |           |            | Fiber Optic Connector Assembly                                                                           |
| TO-00876 | CN      | 201520434158.X    | 23-Jun-15   |                  |           |            | Fiber Optic Connector Assembly                                                                           |
| TO-00904 | CN      | 201510420888.9    | 17-Jul-15   |                  |           |            | Fiber Cleaving Method & Apparatus                                                                        |
| TO-00904 | CN      |                   | 15-Jul-15   |                  |           |            | Fiber Cleaving Method & Apparatus                                                                        |
| TO-00905 | CN      |                   | 15-Jul-15   |                  |           |            | Fiber Processing Apparatus                                                                               |
| TO-00910 | CN      |                   | 04-Aug-15   |                  |           |            | Box                                                                                                      |
| TO-00928 | CN      |                   | 07-Aug-15   |                  |           |            | Fiber Splicing Auxiliary Device                                                                          |
| TO-00928 | CN      |                   | 07-Aug-15   |                  |           |            | Fiber Splicing Auxiliary Device                                                                          |
| TO-00929 | CN      |                   | 07-Aug-15   |                  |           |            | Fiber Processing Device                                                                                  |
| TO-00929 | CN      |                   | 07-Aug-15   |                  |           |            | Fiber Processing Device                                                                                  |
| TO-00930 | CN      |                   | 07-Aug-15   |                  |           |            | Fiber Stripping Device                                                                                   |
| TO-00930 | CN      |                   | 07-Aug-15   |                  |           |            | Fiber Stripping Device                                                                                   |
| TY-00068 | US      | 13/578226         | 09-Aug-12   | 2012/20308       | 06-Dec-12 |            | Optical Fiber Filter Device and Method for Manufacturing the Same                                        |
| TY-00068 | EP      | 11/708357.8       | 04-Feb-11   | 2534513          | 19-Dec-12 |            | Optical Fiber Filter Device and Method for Manufacturing the Same                                        |
| TY-00068 | AU      | 2011214000        | 04-Feb-11   |                  |           |            | Optical Fiber Filter Device and Method for Manufacturing the Same                                        |
| TY-00068 | RU      | 2012133060        | 04-Feb-11   |                  |           |            | Optical Fiber Filter Device and Method for Manufacturing the Same                                        |
| TY-00068 | KR      | 10-2012-702382    | 04-Feb-11   | 10-2012-01       | 21-Dec-12 |            | Optical Fiber Filter Device and Method for Manufacturing the Same                                        |
| TY-00068 | CN      | 201071016459.X    | 12-Feb-10   | 102158329        | 17-Aug-11 | ZL2010101  | Optical Fiber Filter Device and Method for Manufacturing the Same                                        |
| TY-00068 | JP      | 2012-552499       | 04-Feb-11   |                  |           |            | Optical Fiber Filter Device and Method for Manufacturing the Same                                        |

| Patent # | Country | Application #    | Filing Date | Publication | Publication Date | Patent #  | Issue Date | Title                                                                 |
|----------|---------|------------------|-------------|-------------|------------------|-----------|------------|-----------------------------------------------------------------------|
| TY-00068 | IN      | 7582DELNP/2012   | 04-Feb-11   |             |                  |           |            | Optical Fiber Filter Device and Method for Manufacturing the Same     |
| TY-00068 | BR      | BR112012020108-5 | 04-Feb-11   |             |                  |           |            | Optical Fiber Filter Device and Method for Manufacturing the Same     |
| TY-00068 | MX      | MX/a/2012/009315 | 04-Feb-11   |             |                  |           |            | Optical Fiber Filter Device and Method for Manufacturing the Same     |
| TY-00068 | CN      | 201202122355.5   | 12-Feb-10   |             | 30-Sep-12        | 317576    | 29-Jan-14  | Optical Fiber Filter Device and Method for Manufacturing the Same     |
| TY-00068 | WO      | IB2011/050492    | 04-Feb-11   | WO2011/0    | 18-Aug-11        | ZL2010201 | 05-Jan-11  | Optical Fiber Filter Device                                           |
| TY-00082 | CN      | 201010193531.9   | 04-Jun-10   | 102268846   | 07-Dec-11        | ZL2010101 | 16-Jul-14  | Optical Fiber Filter Device and Method for Manufacturing the Same     |
| TY-00082 | CN      | 201020217455.6   | 04-Jun-10   |             |                  |           |            | Apparatus for Securing at least Two Fiber Optic Connectors            |
| TY-00094 | CN      | 201020577711.2   | 14-Oct-10   |             |                  | ZL2010208 | 05-Oct-11  | Apparatus for Securing at least Two Fiber Optic Connectors            |
| TY-00119 | US      | 14/379809        | 20-Aug-14   |             |                  |           |            | Connector and Connector Assembly                                      |
| TY-00119 | EP      | 13715756.6       | 19-Feb-13   |             |                  |           |            | Connector and Connector Assembly                                      |
| TY-00119 | AU      | 2013223760       | 19-Feb-13   |             |                  |           |            | Connector and Connector Assembly                                      |
| TY-00119 | CN      | 201210037485.6   | 20-Feb-12   | 103257407   | 21-Aug-13        |           |            | Connector and Connector Assembly                                      |
| TY-00119 | CN      | 201220054679.9   | 20-Feb-12   |             |                  | ZL2012200 | 05-Sep-12  | Connector and Connector Assembly                                      |
| TY-00119 | IN      | 7421DELNP/2014   | 19-Feb-13   |             |                  |           |            | Connector and Connector Assembly                                      |
| TY-00119 | MX      | MX/a/2014/010032 | 19-Feb-13   |             |                  |           |            | Connector and Connector Assembly                                      |
| TY-00119 | WO      | IB2013/051329    | 19-Feb-13   | WO2013/1    | 29-Aug-13        |           |            | Connector and Connector Assembly                                      |
| TY-00172 | CN      | 201120548405.7   | 23-Dec-11   |             |                  | ZL2011205 | 26-Sep-12  | Dust Cap for Fiber Optic Connector and Fiber Optic Connector Assembly |
| TY-00175 | CN      | 201120548427.3   | 23-Dec-11   |             |                  | ZL2011205 | 26-Sep-12  | Fiber Optic Connector                                                 |
| TY-00176 | CN      | 201120548401.9   | 23-Dec-11   |             |                  | ZL2011208 | 03-Oct-12  | Fiber Optic Connector                                                 |
| TY-00203 | CN      | 201220254953.7   | 31-May-12   | 202600188   | 12-Dec-12        | ZL2012203 | 12-Dec-12  | Adapter Assembly and Connector Assembly                               |