

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5074541

|                                                                                                                                                                                                      |                                  |                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------|
| <b>SUBMISSION TYPE:</b>                                                                                                                                                                              | NEW ASSIGNMENT                   |                       |
| <b>NATURE OF CONVEYANCE:</b>                                                                                                                                                                         | IP CONTRIBUTION AGREEMENT        |                       |
| <b>CONVEYING PARTY DATA</b>                                                                                                                                                                          |                                  |                       |
|                                                                                                                                                                                                      | <b>Name</b>                      | <b>Execution Date</b> |
|                                                                                                                                                                                                      | ABB SCHWEIZ AG                   | 12/12/2016            |
| <b>RECEIVING PARTY DATA</b>                                                                                                                                                                          |                                  |                       |
| <b>Name:</b>                                                                                                                                                                                         | ABB HV CABLES (SWITZERLAND) GMBH |                       |
| <b>Street Address:</b>                                                                                                                                                                               | BROWN BOVERI STRASSE 6           |                       |
| <b>City:</b>                                                                                                                                                                                         | CH-5400 BADEN                    |                       |
| <b>State/Country:</b>                                                                                                                                                                                | SWITZERLAND                      |                       |
| <b>PROPERTY NUMBERS Total: 1</b>                                                                                                                                                                     |                                  |                       |
|                                                                                                                                                                                                      | <b>Property Type</b>             | <b>Number</b>         |
|                                                                                                                                                                                                      | <b>Application Number:</b>       | 16064053              |
| <b>CORRESPONDENCE DATA</b>                                                                                                                                                                           |                                  |                       |
| <b>Fax Number:</b>                                                                                                                                                                                   | (203)703-0801                    |                       |
| <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>                                                                                                                                                                                        | 2037030800                       |                       |
| <b>Email:</b>                                                                                                                                                                                        | amcquade@whipgroup.com           |                       |
| <b>Correspondent Name:</b>                                                                                                                                                                           | WESLEY W. WHITMYER, JR.          |                       |
| <b>Address Line 1:</b>                                                                                                                                                                               | 600 SUMMER STREET                |                       |
| <b>Address Line 2:</b>                                                                                                                                                                               | WHITMYER IP GROUP                |                       |
| <b>Address Line 4:</b>                                                                                                                                                                               | STAMFORD, CONNECTICUT 06901      |                       |
| <b>ATTORNEY DOCKET NUMBER:</b>                                                                                                                                                                       | 06995-P0013A                     |                       |
| <b>NAME OF SUBMITTER:</b>                                                                                                                                                                            | WESLEY W. WHITMYER, JR.          |                       |
| <b>SIGNATURE:</b>                                                                                                                                                                                    | /WESLEY W. WHITMYER, JR./        |                       |
| <b>DATE SIGNED:</b>                                                                                                                                                                                  | 07/31/2018                       |                       |
| <b>Total Attachments: 68</b><br>source=16N5466#page1.tif<br>source=16N5466#page2.tif<br>source=16N5466#page3.tif<br>source=16N5466#page4.tif<br>source=16N5466#page5.tif<br>source=16N5466#page6.tif |                                  |                       |

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Assignment Recordation Branch  
Public Records Division  
Post Office Box 1450  
Alexandria, VA 22313-1450

Request for IP Contribution Agreement Recordation

Dear Sir or Madam:

The enclosed IP Contribution Transfer Agreement of December 12, 2016 and Schedules, attached herewith as Exhibit A, see page 35 of this document, applies to the following U.S. intellectual property:

| Case Reference  | Docket No. |        | App Serial No. | Date Filed | Title                                                                       |
|-----------------|------------|--------|----------------|------------|-----------------------------------------------------------------------------|
| SE-12122-WO-PCT | 06995      | P0013A | 16/064,053     | 06/20/2018 | High Voltage Power Cable Joint Device And A Power Cable Comprising The Same |

Respectfully submitted,

/Wesley W. Whitmyer, Jr./

July 31, 2018

Wesley W. Whitmyer, Jr., Registration No., 33,558  
Attorney for Applicant  
WHITMYER IP GROUP LLC  
600 Summer Street  
Stamford, CT 06901  
203 703-0800

# Exhibit A



Freshfields Bruckhaus Deringer

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**IP CONTRIBUTION AGREEMENT**

in relation to IP exclusively relating to the high voltage cables  
business of ABB group

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12 December 2016

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## SCHEDULES

Schedule 1A  
Schedule 1B

Business Owned IP  
Excluded IP



## IP CONTRIBUTION AGREEMENT

dated 12 December 2016

### PARTIES:

1. ABB Schweiz AG (CH), a company incorporated and existing under the laws of Switzerland, registered with the Commercial Registry of the Canton of Aargau under number CHE-101.538.426 having its business address at Brown Boveri Strasse 6, 5400 Baden, Aargau, Switzerland (the *Transferor*); and
2. ABB HV Cables (Switzerland) GmbH, a company incorporated and existing under the laws of Switzerland, registered with the Commercial Registry of the Canton of Aargau under number CHE – 343.542.541 having its business address at Brown Boveri Strasse 6, 5400 Baden, Aargau, Switzerland (the *Transferee*)

(Transferor and Transferee collectively the *Parties* and each a *Party*)

### RECITALS:

- A. The Transferor is the legal and/or beneficial owner of certain intellectual property rights exclusively relating to ABB group's business of developing, designing, manufacturing, selling, installing and servicing high voltage cables as stand-alone products and/or combined together as cable systems for both on- and offshore applications but, for the avoidance of doubt, excluding the business of developing, designing, manufacturing, selling, installing and servicing high voltage cable accessories business located in Alingsås (the *Business*).
- B. On 21 September 2016 ABB Holdings B.V. as seller and NKT Cables Holding AB as purchaser and NKT Holding A/S as the purchaser's guarantor entered into an agreement for the sale and purchase of the entire issued share capital of ABB HV Cables (Holding) AB (the *SPA*). Under the SPA, in the context of the reorganisation of the Business, it is contemplated, *inter alia*, that the Transferor transfers its intellectual property rights which exclusively relate to the Business to the Transferee as a capital contribution to be valued at book value and that the Transferee carries on the Business.
- C. In order to implement the contribution of intellectual property rights as contemplated under the SPA, the Parties enter into this IP Contribution Agreement (the *Agreement*).

**IT IS AGREED:**

**1. Definitions**

In this Agreement, the following words and expressions shall have the following meanings:

*Affiliate* means, in relation to any Party, any subsidiary or parent company of that Party and any subsidiary of any such parent company, in each case from time to time;

*Agreement* is defined in Recital C;

*Business* is defined in Recital A;

*Business Owned IP* means all Intellectual Property Rights owned by the Transferor which exclusively relate to the Business, including without limitation those listed in Schedule 1A, and excluding the Excluded IP;

*Excluded IP* means the Intellectual Property Rights listed in Schedule 1B;

*Intellectual Property Rights* means:

- (a) patents, utility models and rights in inventions;
- (b) rights in each of know-how, confidential information and trade secrets;
- (c) trade marks, service marks, rights in logos, trade names, rights in each of get-up and trade dress and domain names;
- (d) copyright, moral rights, database rights, rights in designs, and semiconductor topography rights;
- (e) any other intellectual property rights; and
- (f) all rights or forms of protection, subsisting now or in the future, having equivalent or similar effect to the rights referred to in paragraphs (a) to (e) above,

in each case: (i) anywhere in the world; (ii) whether unregistered or registered (including all applications, rights to apply and rights to claim priority); and (iii) including all divisionals, continuations, continuations-in-part, reissues, extensions, re-examinations and renewals;

*SPA* is defined in Recital A.

**2. Contribution**

- 2.1 The Transferor shall transfer and assign, and hereby transfers and assigns, with effect from January 1, 2017 (the *Effective Date*), to the Transferee all of its rights, title and interest in the Business Owned IP together with all goodwill connected with and symbolized by the Business Owned IP and including the rights in and to all income, royalties, damages and payments now and hereafter due or payable, all causes of action (whether in law or in equity), and the right to sue, counterclaim, and recover for infringement, in each case with respect to the Business Owned IP, as a capital contribution, and the Transferee accepts such transfer.

- 2.2 Following the Effective Date, the Transferee shall use reasonable efforts to register the transfer of all registered Business Owned IP with all competent intellectual property registries at its own cost and expense as soon as reasonably practicable, and shall prepare all documents required in connection therewith. As long as the Transferor or any of its Affiliates is registered as the owner of any registered Business Owned IP, the Transferor shall reasonably assist (or shall procure that its Affiliates reasonably assist) the Transferee in the registration process.
- 2.3 Upon reasonable request and at the expense of the Transferee, the Transferor shall instruct all external advisors or providers (including external patent and trademark attorneys and local counsel and domain name providers) to act on behalf and at the instructions of the Transferee with respect to the Business Owned IP. The Transferor shall provide the Transferee with a list of all external advisors or providers involved in the management and administration of the Business Owned IP without undue delay after the Effective Date.
- 2.4 The Transferor shall deliver to the Transferee (or the Transferee's nominated representatives) as soon as practicable after the Effective Date all deeds, documents of title, certificates, opposition files, correspondence with intellectual property registries, and other files and records (including those of its agents) relating to the Business Owned IP, in each case on an "as they are" basis.
- 2.5 For Swiss VAT purposes, the notification procedure (*Meldeverfahren*) will be applied by both Parties and form 764 will be filed with the Federal Tax Authority.

### **3. Representations and Warranties**

- 3.1 The Transferor and the Transferee warrant, each individually, that they have the requisite corporate power to execute, deliver and perform, and have taken all necessary corporate or other action to authorise the execution, delivery and performance of this Agreement. This Agreement constitutes legal, valid and binding obligations of the Transferor and the Transferee enforceable in accordance with its terms.
- 3.2 To the extent legally permissible, the Parties acknowledge and agree that, except for the warranty given in clause 3.1 hereof, no representations and warranties are given in this Agreement by the Transferor in relation to the Business Owned IP and that all remedies that would otherwise be available to the Transferee under applicable law or otherwise are hereby excluded and waived.

### **4. Miscellaneous**

- 4.1 This Agreement sets out the whole agreement between the parties in respect of the subject matter of this Agreement and, in entering into this Agreement, no Party has relied on any statement, warranty or understanding other than those expressly set out in this Agreement. This Agreement supersedes any previous draft, agreement, arrangement or understanding between the Parties whether in writing or not, relating to its subject matter.

- 4.2 No Party may assign or transfer this agreement or any rights and obligations thereunder, in whole or in part, to any other party without the prior written consent of the other Party.
- 4.3 For the avoidance of doubt, in the event of a conflict between the provisions of this Agreement and the provisions of the SPA, the provisions of the SPA shall prevail and each Party shall procure that effect is given to the provisions of the SPA.
- 4.4 Any claims of the Transferee hereunder shall be subject to the limitations set out in paragraphs 4 and 10 to 19 (inclusive) of Schedule 5 (*Limitations on Liability*) to the SPA save that none of the limitations in Schedule 5 (*Limitations on Liability*) to the SPA shall apply to any claim which arises as a consequence of fraud or fraudulent misrepresentation.
- 4.5 No failure or delay by any Party in exercising any right or remedy provided by law or under this Agreement shall impair such right or remedy or operate or be construed as a waiver or variation of it or preclude it or its exercise at any subsequent time and no single or partial exercise of any such right or remedy shall preclude any further exercise of it or the exercise of any other remedy.
- 4.6 Each of the Transferor and the Transferee shall perform (or procure the performance of) all further acts and things, and execute and deliver (or procure the execution and delivery of) such further documents, as may be required by law or as may be necessary or reasonably required by the Transferee to implement and give effect to this Agreement.
- 4.7 This Agreement may be executed in any number of counterparts, and by each Party on separate counterparts. Each counterpart is an original, but all counterparts shall together constitute one and the same instrument. Delivery of a counterpart of this Agreement by e-mail attachment or telecopy shall be an effective mode of delivery.
- 4.8 No amendment of this Agreement (or of any of the documents referred to in this Agreement) shall be valid unless it is in writing and signed by or on behalf of each of the Parties to it.
- 4.9 Each of the provisions of the Agreement is severable. If any provision is held to be or becomes invalid or unenforceable in any respect under the laws of any jurisdiction it shall have no effect in that respect and the Parties shall use their reasonable endeavours to replace it by a valid and enforceable substitute provision the effect of which is as close to the intended effect as possible.
- 4.10 This Agreement and any non-contractual obligations arising out of or in connection with this Agreement shall be governed by, and interpreted in accordance with, laws of Switzerland. The courts of Zurich, Switzerland shall have exclusive jurisdiction in relation to all disputes (including claims for set-off and counterclaims) arising out of or in connection with this Agreement including disputes arising out of or in connection with: (i) the creation, validity, effect, interpretation, performance or non-performance of, or the legal relationships established by, this Agreement; and (ii) any non-contractual obligations arising out of or in connection with this Agreement.

**SIGNATURE**

This Agreement is signed by duly authorised representatives of the parties:

**SIGNED**  
for and on behalf of  
**ABB Schweiz AG**

) SIGNATURE: P. Cothip  
)  
) NAME: DENE COATING

**SIGNED**  
for and on behalf of  
**ABB Schweiz AG**

) SIGNATURE: O. Lillholt  
)  
) NAME: OLIVER AUGRECHT

**SIGNED**  
for and on behalf of  
**ABB HV CABLES (SWITZERLAND)**  
**GMBH**

) SIGNATURE: Bobby Jacob  
)  
) NAME: BOBBY JACOB SWEDJEMARK

**SIGNED**  
for and on behalf of  
**ABB HV CABLES (SWITZERLAND)**  
**GMBH**

) SIGNATURE: O. Lillholt  
)  
) NAME: OLIVER AUGRECHT

| Project Crown  | IP Contribution Agreement | Schedule 1A | Business Owned IP |                  |                    |                    |                                                                                                            |  |
|----------------|---------------------------|-------------|-------------------|------------------|--------------------|--------------------|------------------------------------------------------------------------------------------------------------|--|
| Case Reference | Country                   | Status      | Grant date        | Grant Number     | Publication Number | Applicants (List)  | English Title                                                                                              |  |
| CH-08/063      | CN                        | Granted     | 20 Oct 2014       | ZL200910259025.2 |                    | ABB RESEARCH LTD   | Flexible Vulcanized Cable Joint for Direct Current with Resistive Field Grader Material                    |  |
| CH-08/063      | EP                        | Pending     |                   |                  |                    | ABB RESEARCH LTD   | Flexible Vulcanized Cable Joint for Direct Current with Resistive Field Grader Material                    |  |
| CH-08/063      | IN                        | Pending     |                   |                  |                    | ABB RESEARCH LTD   | Flexible Vulcanized Cable Joint for Direct Current with Resistive Field Grader Material                    |  |
| CH-08/063      | US                        | Granted     | 12 Nov 13         | 8578602          |                    | ABB RESEARCH LTD   | Flexible Vulcanized Cable Joint for Direct Current with Resistive Field Grader Material                    |  |
| 09039-GB-EPT   | United Kingdom            | Abd         | 24 Nov 2010       | 1325373          | 1325373            | SEABB              | A method and a device for ensuring a satisfactory tensile strength when joining a submarine cable          |  |
| 09039-IT-EPT   | Italy                     | Abd         | 24 Nov 2010       | 1325373          | 1325373            | SEABB              | A method and a device for ensuring a satisfactory tensile strength when joining a submarine cable          |  |
| 09039-NO-PCT   | Norway                    | Abd         | 12 Mar 2014       | 334724           |                    | SEABB              | A method and a device for ensuring a satisfactory tensile strength when joining a submarine cable          |  |
| 09039-SE-NP    | Sweden                    | Abd         | 28 Feb 2003       | 0003232-2        | 519404             | SEABB              | A method and a device for ensuring a satisfactory tensile strength when joining a submarine cable          |  |
| 09068-GB-EPT   | United Kingdom            | Granted     | 06 Jul 2009       | 1320916          | 1320916            | SEABB              | A method of restoring armoring on a cable                                                                  |  |
| 09068-IT-EPT   | Italy                     | Granted     | 06 Jul 2009       | 279636E/2009     | 1320916            | SEABB              | A method of restoring armoring on a cable                                                                  |  |
| 09068-NO-PCT   | Norway                    | Granted     | 10 Dec 2012       | 332690           |                    | SEABB              | A method of restoring armoring on a cable                                                                  |  |
| 09068-SE-NP    | Sweden                    | Granted     | 17 Dec 2001       | 0003153-4        |                    | SEABB              | A method of restoring armoring on a cable                                                                  |  |
| 09113-GB-EPT   | United Kingdom            | Granted     | 08 Jul 2009       | 1320915          | 1320915            | SEABB              | A method of restoring armoring on a cable                                                                  |  |
| 09113-IT-EPT   | Italy                     | Granted     | 08 Jul 2009       | 279648E/2009     | 1320915            | SEABB              | A method of restoring armoring on a cable                                                                  |  |
| 09113-NO-PCT   | Norway                    | Granted     | 26 Nov 2012       | 332659           |                    | SEABB              | A method of restoring armoring on a cable                                                                  |  |
| 09113-SE-NP    | Sweden                    | Granted     | 17 Dec 2001       | 0003152-5        |                    | SEABB              | A method of restoring armoring on a cable                                                                  |  |
| 09067-CH-EPT   | Switzerland               | Granted     | 27 Feb 2013       | 2092537          | 2092537            | ABB RESEARCH LTD   | High Voltage Cable                                                                                         |  |
| 09067-CN-PCT   | China                     | Granted     | 24 Aug 2011       | ZL200780040742.5 | CN101536118A       | ABB RESEARCH LTD   | High Voltage Cable                                                                                         |  |
| 09067-DE-EPT   | Germany                   | Granted     | 27 Feb 2013       | 2092537          | 2092537            | ABB RESEARCH LTD   | High Voltage Cable                                                                                         |  |
| 09067-DK-EPT   | Denmark                   | Granted     | 27 Feb 2013       | 2092537          | 2092537            | ABB RESEARCH LTD   | High Voltage Cable                                                                                         |  |
| 09067-FR-EPT   | France                    | Granted     | 27 Feb 2013       | 2092537          | 2092537            | ABB RESEARCH LTD   | High Voltage Cable                                                                                         |  |
| 09067-GB-EPT   | United Kingdom            | Granted     | 27 Feb 2013       | 2092537          | 2092537            | ABB RESEARCH LTD   | High Voltage Cable                                                                                         |  |
| 09067-IN-PCT   | India                     | Pending     |                   |                  | 2144/DELNP/2009    | ABB RESEARCH LTD   | High Voltage Cable                                                                                         |  |
| 09067-IT-EPT   | Italy                     | Granted     | 27 Feb 2013       | 2092537          | 2092537            | ABB RESEARCH LTD   | High Voltage Cable                                                                                         |  |
| 09067-NL-EPT   | Netherlands               | Granted     | 27 Feb 2013       | 2092537          | 2092537            | ABB RESEARCH LTD   | High Voltage Cable                                                                                         |  |
| 09067-SE-NP    | Sweden                    | Granted     | 17 Feb 2009       | 531305           | 0602332-9          | ABB RESEARCH LTD   | High Voltage Cable                                                                                         |  |
| 09067-US-PCT   | United States Of America  | Granted     | 29 Nov 2011       | 8,057,594 B2     | US 2010/078195-A1  | ABB RESEARCH LTD   | High Voltage Cable                                                                                         |  |
| 09064-US-NP    | United States Of America  | Grant       | 04 Mar 2010       | US 7,709,731     | US 2007/0268766    | ABB Technology Ltd | An electric power supply system and a method of production thereof                                         |  |
| 10124-GR-PCT   | Brazil                    | Pending     |                   |                  | PI0720036-5        | ABB Technology Ltd | An electric power cable, an off-shore installation provided therewith, and use thereof                     |  |
| 10124-DE-EPT   | Germany                   | Granted     | 08 Dec 2010       | 2092536          | 2092536            | ABB Technology Ltd | An electric power cable, an off-shore installation provided therewith, and use thereof                     |  |
| 10124-GB-EPT   | United Kingdom            | Granted     | 08 Dec 2010       | 2092536          | 2092536            | ABB Technology Ltd | An electric power cable, an off-shore installation provided therewith, and use thereof                     |  |
| 10124-IN-PCT   | India                     | Pending     |                   |                  |                    | ABB Technology Ltd | An electric power cable, an off-shore installation provided therewith, and use thereof                     |  |
| 10124-IT-EPT   | Italy                     | Granted     | 15 Mar 2011       | 284762           |                    | ABB Technology Ltd | An electric power cable, an off-shore installation provided therewith, and use thereof                     |  |
| 10124-MX-PCT   | Mexico                    | Granted     |                   |                  | MXA/2009/006386    | ABB Technology Ltd | An electric power cable, an off-shore installation provided therewith, and use thereof                     |  |
| 10124-US-PCT   | Norway                    | Pending     |                   |                  | US-2010-1025071-A1 | ABB Technology Ltd | An electric power cable, an off-shore installation provided therewith, and use thereof                     |  |
| 10183-GR-PCT   | United States Of America  | Granted     | 26 Aug 2014       | 8,816,206        |                    | ABB Technology AG  | An electric power cable                                                                                    |  |
| 10183-CN-PCT   | Brazil                    | Pending     |                   |                  | PI0811984-3        | ABB Technology AG  | An electric power cable                                                                                    |  |
| 10183-DE-PCT   | China                     | Granted     | 30 Nov 2011       | ZL200880017746.5 | CN101681697A       | ABB Technology AG  | An electric power cable                                                                                    |  |
| 10183-DE-EPT   | Germany                   | Granted     | 05 Aug 2015       | 2150960          | 2150960            | ABB Technology AG  | An electric power cable                                                                                    |  |
| 10183-FI-EPT   | Finland                   | Granted     | 05 Aug 2015       | 2150960          | 2150960            | ABB Technology AG  | An electric power cable                                                                                    |  |
| 10183-FR-EPT   | France                    | Granted     | 05 Aug 2015       | 2150960          | 2150960            | ABB Technology AG  | An electric power cable                                                                                    |  |
| 10183-GB-EPT   | United Kingdom            | Granted     | 05 Aug 2015       | 2150960          | 2150960            | ABB Technology AG  | An electric power cable                                                                                    |  |
| 10183-IN-PCT   | India                     | Pending     |                   |                  |                    | ABB Technology AG  | An electric power cable                                                                                    |  |
| 10183-IT-EPT   | Italy                     | Grant       | 05 Aug 2015       | 2150960          | 2150960            | ABB Technology AG  | An electric power cable                                                                                    |  |
| 10183-NO-EPT   | Norway                    | Granted     | 05 Aug 2015       | 2150960          | 2150960            | ABB Technology AG  | An electric power cable                                                                                    |  |
| 10183-SE-EPT   | Sweden                    | Granted     | 05 Aug 2015       | 2150960          | 2150960            | ABB Technology AG  | An electric power cable                                                                                    |  |
| 10183-US-PCT   | United States Of America  | Granted     | 12 Mar 2015       | 9,029,704        | US2015/0186988A1   | ABB Technology AG  | An electric power cable                                                                                    |  |
| 10223-AU-PCT   | Australia                 | Granted     | 17 Oct 2013       | 2008216829       |                    | ABB RESEARCH LTD   | METHOD FOR PROVIDING AN INSULATED ELECTRIC HIGH VOLTAGE DC CABLE OR A HIGH VOLTAGE DC TERMINATION OR JOINT |  |
| 10223-BE-EPA   | Belgium                   | Granted     | 13 Oct 2010       | 2093774          | 2093774            | ABB RESEARCH LTD   | METHOD FOR PROVIDING AN INSULATED ELECTRIC HIGH VOLTAGE DC CABLE OR A HIGH VOLTAGE DC TERMINATION OR JOINT |  |
| 10223-CH-EPA   | Switzerland               | Granted     | 13 Oct 2010       | 2093774          | 2093774            | ABB RESEARCH LTD   | METHOD FOR PROVIDING AN INSULATED ELECTRIC HIGH VOLTAGE DC CABLE OR A HIGH VOLTAGE DC TERMINATION OR JOINT |  |

| Case Reference | Country                      | Status  | Grant date  | Grant Number     | Publication Number | Applicants (List)  | English Title                                                                                              |
|----------------|------------------------------|---------|-------------|------------------|--------------------|--------------------|------------------------------------------------------------------------------------------------------------|
| 10223-CN-PCT   | China                        | Granted | 05 Nov 2013 | ZL200980101780.6 | CN10191213A        | ABB RESEARCH LTD   | METHOD FOR PROVIDING AN INSULATED ELECTRIC HIGH VOLTAGE DC CABLE OR A HIGH VOLTAGE DC TERMINATION OR JOINT |
| 10223-DE-EPA   | Germany                      | Granted | 13 Oct 2010 | 2093774          | 2093774            | ABB RESEARCH LTD   | METHOD FOR PROVIDING AN INSULATED ELECTRIC HIGH VOLTAGE DC CABLE OR A HIGH VOLTAGE DC TERMINATION OR JOINT |
| 10223-ES-EPA   | Spain                        | Granted | 13 Oct 2010 | 2093774          | 2093774            | ABB RESEARCH LTD   | METHOD FOR PROVIDING AN INSULATED ELECTRIC HIGH VOLTAGE DC CABLE OR A HIGH VOLTAGE DC TERMINATION OR JOINT |
| 10223-FI-EPA   | Finland                      | Granted | 13 Oct 2010 | 2093774          | 2093774            | ABB RESEARCH LTD   | METHOD FOR PROVIDING AN INSULATED ELECTRIC HIGH VOLTAGE DC CABLE OR A HIGH VOLTAGE DC TERMINATION OR JOINT |
| 10223-FR-EPA   | France                       | Granted | 13 Oct 2010 | 2093774          | 2093774            | ABB RESEARCH LTD   | METHOD FOR PROVIDING AN INSULATED ELECTRIC HIGH VOLTAGE DC CABLE OR A HIGH VOLTAGE DC TERMINATION OR JOINT |
| 10223-GS-EPA   | United Kingdom               | Granted | 13 Oct 2010 | 2093774          | 2093774            | ABB RESEARCH LTD   | METHOD FOR PROVIDING AN INSULATED ELECTRIC HIGH VOLTAGE DC CABLE OR A HIGH VOLTAGE DC TERMINATION OR JOINT |
| 10223-IN-PCT   | India                        | Pending |             |                  |                    | ABB RESEARCH LTD   | METHOD FOR PROVIDING AN INSULATED ELECTRIC HIGH VOLTAGE DC CABLE OR A HIGH VOLTAGE DC TERMINATION OR JOINT |
| 10223-IT-EPA   | Italy                        | Granted | 13 Oct 2010 | 2093774          | 2093774            | ABB RESEARCH LTD   | METHOD FOR PROVIDING AN INSULATED ELECTRIC HIGH VOLTAGE DC CABLE OR A HIGH VOLTAGE DC TERMINATION OR JOINT |
| 10223-NL-EPA   | Netherlands                  | Granted | 13 Oct 2010 | 2093774          | 2093774            | ABB RESEARCH LTD   | METHOD FOR PROVIDING AN INSULATED ELECTRIC HIGH VOLTAGE DC CABLE OR A HIGH VOLTAGE DC TERMINATION OR JOINT |
| 10223-NO-EPA   | Norway                       | Granted | 13 Oct 2010 | 2093774          | 2093774            | ABB RESEARCH LTD   | METHOD FOR PROVIDING AN INSULATED ELECTRIC HIGH VOLTAGE DC CABLE OR A HIGH VOLTAGE DC TERMINATION OR JOINT |
| 10223-RU-PCT   | Russian Federation           | Granted | 13 Oct 2010 | 2477599          |                    | ABB RESEARCH LTD   | METHOD FOR PROVIDING AN INSULATED ELECTRIC HIGH VOLTAGE DC CABLE OR A HIGH VOLTAGE DC TERMINATION OR JOINT |
| 10223-SE-EPA   | Sweden                       | Granted | 13 Oct 2010 | 2093774          | 2093774            | ABB RESEARCH LTD   | METHOD FOR PROVIDING AN INSULATED ELECTRIC HIGH VOLTAGE DC CABLE OR A HIGH VOLTAGE DC TERMINATION OR JOINT |
| 10223-US-PCT   | United States Of America     | Granted | 19 Mar 2013 | US 8,398,803     |                    | ABB RESEARCH LTD   | METHOD FOR PROVIDING AN INSULATED ELECTRIC HIGH VOLTAGE DC CABLE OR A HIGH VOLTAGE DC TERMINATION OR JOINT |
| 10341-EP-EPT   | European Procedure (Patents) | Pending |             |                  | 2330228            | ABB RESEARCH LTD   | An arrangement for interconnecting two distant locations and a method for transmitting electric power      |
| 10384-CH-EPA   | Switzerland                  | Granted | 06 Jun 2012 | 2113978          | 2113978            | ABB Technology Ltd | A protective casing for a high voltage cable                                                               |
| 10384-CN-NP    | China                        | Granted | 05 Jun 2013 | ZL200910137434.5 | CN101572399A       | ABB Technology Ltd | A protective casing for a high voltage cable                                                               |
| 10384-DE-EPA   | Germany                      | Granted | 06 Jun 2012 | 2113978          | 2113978            | ABB Technology Ltd | A protective casing for a high voltage cable                                                               |
| 10384-DK-EPA   | Denmark                      | Granted | 05 Jun 2012 | 2113978          | 2113978            | ABB Technology Ltd | A protective casing for a high voltage cable                                                               |
| 10384-FR-EPA   | France                       | Granted | 06 Jun 2012 | 2113978          | 2113978            | ABB Technology Ltd | A protective casing for a high voltage cable                                                               |
| 10384-GB-EPA   | United Kingdom               | Granted | 06 Jun 2012 | 2113978          | 2113978            | ABB Technology Ltd | A protective casing for a high voltage cable                                                               |
| 10384-IN-NP    | India                        | Pending |             |                  |                    | ABB Technology Ltd | A protective casing for a high voltage cable                                                               |
| 10384-IT-EPA   | Italy                        | Granted | 06 Jun 2012 | 2113978          | 2113978            | ABB Technology Ltd | A protective casing for a high voltage cable                                                               |
| 10384-NL-EPA   | Netherlands                  | Granted | 06 Jun 2012 | 2113978          | 2113978            | ABB Technology Ltd | A protective casing for a high voltage cable                                                               |
| 10384-NO-EPA   | Norway                       | Granted | 06 Jun 2012 | 2113978          | 2113978            | ABB Technology Ltd | A protective casing for a high voltage cable                                                               |
| 10384-SE-EPA   | Sweden                       | Granted | 06 Jun 2012 | 2113978          | 2113978            | ABB Technology Ltd | A protective casing for a high voltage cable                                                               |
| 10384-US-NP    | United States Of America     | Granted | 17 Jul 2012 | 8,222,824        | US-2009-0272551-A1 | ABB Technology Ltd | A protective casing for a high voltage cable                                                               |
| 10584-AU-PCT   | Australia                    | Granted | 20 Aug 2016 | 2016365379       |                    | ABB Technology AG  | A DC cable for high voltages                                                                               |
| 10584-CA-PCT   | Canada                       | Granted | 16 Feb 2015 | 2,746,439        |                    | ABB Technology AG  | A DC cable for high voltages                                                                               |
| 10584-CN-PCT   | China                        | Granted | 10 Dec 2014 | ZL200890132401.5 | CN102257578        | ABB Technology AG  | A DC cable for high voltages                                                                               |
| 10584-DE-EPT   | Germany                      | Granted | 25 Feb 2015 | 2380177          | 2380177            | ABB Technology AG  | A DC cable for high voltages                                                                               |
| 10584-FR-EPT   | France                       | Granted | 25 Feb 2015 | 2380177          | 2380177            | ABB Technology AG  | A DC cable for high voltages                                                                               |
| 10584-GB-EPT   | United Kingdom               | Granted | 25 Feb 2015 | 2380177          | 2380177            | ABB Technology AG  | A DC cable for high voltages                                                                               |
| 10584-IN-PCT   | India                        | Pending |             |                  | 5015/CHENP/2011 A  | ABB Technology AG  | A DC cable for high voltages                                                                               |
| 10584-IT-EPT   | Italy                        | Granted | 25 Feb 2015 | 2380177          | 2380177            | ABB Technology AG  | A DC cable for high voltages                                                                               |
| 10584-JP-PCT   | Japan                        | Granted | 15 Mar 2015 | 5746042          | 2012-512511        | ABB Technology AG  | A DC cable for high voltages                                                                               |
| 10584-NL-EPT   | Netherlands                  | Granted | 25 Feb 2015 | 2380177          | 2380177            | ABB Technology AG  | A DC cable for high voltages                                                                               |
| 10584-NO-EPT   | Norway                       | Granted | 25 Feb 2015 | 2380177          | 2380177            | ABB Technology AG  | A DC cable for high voltages                                                                               |
| 10584-SE-EPT   | Sweden                       | Granted | 25 Feb 2015 | 2380177          | 2380177            | ABB Technology AG  | A DC cable for high voltages                                                                               |
| 10584-US-PCT   | United States Of America     | Granted | 14 Jan 2014 | 8,629,361        | US-2011-0278041-A1 | ABB Technology AG  | A DC cable for high voltages                                                                               |
| 10684-BR-PCT   | Brazil                       | Pending |             | P0919079-8       |                    | ABB Technology AG  | Cable joint for optical fibre composite electric power cable                                               |
| 10688-CN-PCT   | China                        | Granted | 04 Mar 2015 | ZL200980132683.3 | CN102132186        | ABB Technology AG  | Cable joint for optical fibre composite electric power cable                                               |
| 10688-EP-EPT   | European Procedure (Patents) | Pending |             |                  | 2321685            | ABB Technology AG  | Cable joint for optical fibre composite electric power cable                                               |



| Case Reference  | Country                      | Status                   | Grant date  | Grant Number     | Publication Number | Applicants (List) | English Title                                                                                   |
|-----------------|------------------------------|--------------------------|-------------|------------------|--------------------|-------------------|-------------------------------------------------------------------------------------------------|
| 10668-IN-PCT    | India                        | Pending                  |             |                  |                    | ABB Technology AG | Cable joint for optical fibre composite electric power cable                                    |
| 10668-US-PCT    | United States Of America     | Granted                  | 18 Mar 2014 | 8,676,020        | US-2012-0033925-A1 | ABB Technology AG | Cable joint for optical fibre composite electric power cable                                    |
| 10668-CN-PCT    | China                        | Granted                  | 23 Sep 2015 | 212010800276623  | CN102474060A       | ABB Technology AG | A JOINT FOR A SUBMARINE CABLE                                                                   |
| 10664-DE-EPT    | Germany                      | Granted                  | 15 Oct 2014 | 2449641          | 2449641            | ABB Technology AG | A JOINT FOR A SUBMARINE CABLE                                                                   |
| 10664-FI-EPT    | Finland                      | Granted                  | 15 Oct 2014 | 2449641          | 2449641            | ABB Technology AG | A JOINT FOR A SUBMARINE CABLE                                                                   |
| 10664-FR-EPT    | France                       | Granted                  | 15 Oct 2014 | 2449641          | 2449641            | ABB Technology AG | A JOINT FOR A SUBMARINE CABLE                                                                   |
| 10664-GB-EPT    | United Kingdom               | Granted                  | 15 Oct 2014 | 2449641          | 2449641            | ABB Technology AG | A JOINT FOR A SUBMARINE CABLE                                                                   |
| 10664-IT-EPT    | Italy                        | Granted                  | 15 Oct 2014 | 2449641          | 2449641            | ABB Technology AG | A JOINT FOR A SUBMARINE CABLE                                                                   |
| 10664-NL-EPT    | Netherlands                  | Granted                  | 15 Oct 2014 | 2449641          | 2449641            | ABB Technology AG | A JOINT FOR A SUBMARINE CABLE                                                                   |
| 10664-NO-EPT    | Norway                       | Granted                  | 15 Oct 2014 | 2449641          | 2449641            | ABB Technology AG | A JOINT FOR A SUBMARINE CABLE                                                                   |
| 10664-SE-EPT    | Sweden                       | Granted                  | 15 Oct 2014 | 2449641          | 2449641            | ABB Technology AG | A JOINT FOR A SUBMARINE CABLE                                                                   |
| 10664-US-PCT    | United States Of America     | Granted                  | 13 Aug 2013 | 8,501,795        | US-2012-0037446-A1 | ABB Technology AG | A JOINT FOR A SUBMARINE CABLE                                                                   |
| 10668-CA-PCT    | Canada                       | Grant                    | 08 Jul 2016 | 2,799,592        |                    | ABB RESEARCH LTD  | A HIGH VOLTAGE DIRECT CURRENT CABLE TERMINATION APPARATUS                                       |
| 10668-CN-PCT    | China                        | Granted                  | 17 Feb 2016 | 2120108000669-08 | CN102906854 A      | ABB RESEARCH LTD  | A HIGH VOLTAGE DIRECT CURRENT CABLE TERMINATION APPARATUS                                       |
| 10608-DE-EPT    | Germany                      | Granted                  | 25 Mar 2015 | 2572424          | 2572424            | ABB RESEARCH LTD  | A HIGH VOLTAGE DIRECT CURRENT CABLE TERMINATION APPARATUS                                       |
| 10608-FR-EPT    | France                       | Granted                  | 25 Mar 2015 | 2572424          | 2572424            | ABB RESEARCH LTD  | A HIGH VOLTAGE DIRECT CURRENT CABLE TERMINATION APPARATUS                                       |
| 10608-GB-EPT    | United Kingdom               | Granted                  | 25 Mar 2015 | 2572424          | 2572424            | ABB RESEARCH LTD  | A HIGH VOLTAGE DIRECT CURRENT CABLE TERMINATION APPARATUS                                       |
| 10608-IT-EPT    | Italy                        | Granted                  | 25 Mar 2015 | 2572424          | 2572424            | ABB RESEARCH LTD  | A HIGH VOLTAGE DIRECT CURRENT CABLE TERMINATION APPARATUS                                       |
| 10608-NL-EPT    | Netherlands                  | Granted                  | 25 Mar 2015 | 2572424          | 2572424            | ABB RESEARCH LTD  | A HIGH VOLTAGE DIRECT CURRENT CABLE TERMINATION APPARATUS                                       |
| 10608-NO-EPT    | Norway                       | Granted                  | 25 Mar 2015 | 2572424          | 2572424            | ABB RESEARCH LTD  | A HIGH VOLTAGE DIRECT CURRENT CABLE TERMINATION APPARATUS                                       |
| 10608-SE-EPT    | Sweden                       | Granted                  | 25 Mar 2015 | 2572424          | 2572424            | ABB RESEARCH LTD  | A HIGH VOLTAGE DIRECT CURRENT CABLE TERMINATION APPARATUS                                       |
| 10608-US-PCT    | United States Of America     | Granted                  | 17 Dec 2013 | 8,609,987        | US-2013-0081844-A1 | ABB Technology AG | Composite Formations for DC Insulation                                                          |
| CH-14302-WO-PCT | International Procedure      | Publisher of application |             |                  | 2016/101988        | ABB Technology AG | Composite Formations for DC Insulation                                                          |
| SE-10658-CA-PCT | Canada                       | Grant                    | 19 Jul 2016 | 2,799,594        |                    | ABB RESEARCH LTD  | A HIGH VOLTAGE DIRECT CURRENT CABLE TERMINATION APPARATUS                                       |
| SE-10658-CN-PCT | China                        | Grant                    | 23 Sep 2015 | 212010900669190  | CN103006855 A      | ABB RESEARCH LTD  | A HIGH VOLTAGE DIRECT CURRENT CABLE TERMINATION APPARATUS                                       |
| SE-10658-EP-EPT | European Procedure (Patents) | Pending                  |             |                  | 2572423            | ABB RESEARCH LTD  | A HIGH VOLTAGE DIRECT CURRENT CABLE TERMINATION APPARATUS                                       |
| SE-10658-US-PCT | United States Of America     | Granted                  | 03 Sep 2013 | 8,525,025        | US-2013-0078836-A1 | ABB RESEARCH LTD  | A HIGH VOLTAGE DIRECT CURRENT CABLE TERMINATION APPARATUS                                       |
| SE-10659-CA-PCT | Canada                       | Grant                    | 05 Jul 2016 | 2,799,631        |                    | ABB RESEARCH LTD  | A HIGH VOLTAGE DIRECT CURRENT CABLE TERMINATION APPARATUS                                       |
| SE-10659-CN-PCT | China                        | Granted                  | 13 Apr 2016 | 212010800669216  | CN103006853 A      | ABB RESEARCH LTD  | A HIGH VOLTAGE DIRECT CURRENT CABLE TERMINATION APPARATUS                                       |
| SE-10659-EP-EPT | European Procedure (Patents) | Pending                  |             |                  | 2572421            | ABB RESEARCH LTD  | A HIGH VOLTAGE DIRECT CURRENT CABLE TERMINATION APPARATUS                                       |
| SE-10659-US-PCT | United States Of America     | Granted                  | 03 Feb 2015 | 8,945,652        | US-2013-0076124-A1 | ABB RESEARCH LTD  | A HIGH VOLTAGE DIRECT CURRENT CABLE TERMINATION APPARATUS                                       |
| SE-10660-CA-PCT | Canada                       | Pending                  |             |                  |                    | ABB RESEARCH LTD  | A HIGH VOLTAGE DIRECT CURRENT CABLE TERMINATION APPARATUS                                       |
| SE-10660-CN-PCT | China                        | Grant                    | 06 Jul 2016 | 212010800669203  | CN1030038965       | ABB RESEARCH LTD  | A HIGH VOLTAGE DIRECT CURRENT CABLE TERMINATION APPARATUS                                       |
| SE-10660-EP-EPT | European Procedure (Patents) | Pending                  |             |                  | 2572422            | ABB RESEARCH LTD  | A HIGH VOLTAGE DIRECT CURRENT CABLE TERMINATION APPARATUS                                       |
| SE-10660-US-PCT | United States Of America     | Granted                  | 17 Jun 2014 | 8,754,329        | US-2013-0081851-A1 | ABB RESEARCH LTD  | A HIGH VOLTAGE DIRECT CURRENT CABLE TERMINATION APPARATUS                                       |
| SE-10901-DE-EPT | Germany                      | Granted                  | 31 Dec 2014 | 2559124          | 2559124            | ABB Technology AG | DEVICE AND METHOD FOR MACHINING AN ELECTRICAL CABLE                                             |
| SE-10901-FI-EPT | Finland                      | Granted                  | 31 Dec 2014 | 2559124          | 2559124            | ABB Technology AG | DEVICE AND METHOD FOR MACHINING AN ELECTRICAL CABLE                                             |
| SE-10901-FR-EPT | France                       | Granted                  | 31 Dec 2014 | 2559124          | 2559124            | ABB Technology AG | DEVICE AND METHOD FOR MACHINING AN ELECTRICAL CABLE                                             |
| SE-10901-GB-EPT | United Kingdom               | Granted                  | 31 Dec 2014 | 2559124          | 2559124            | ABB Technology AG | DEVICE AND METHOD FOR MACHINING AN ELECTRICAL CABLE                                             |
| SE-10901-IT-EPT | Italy                        | Granted                  | 31 Dec 2014 | 2559124          | 2559124            | ABB Technology AG | DEVICE AND METHOD FOR MACHINING AN ELECTRICAL CABLE                                             |
| SE-10901-NL-EPT | Netherlands                  | Granted                  | 31 Dec 2014 | 2559124          | 2559124            | ABB Technology AG | DEVICE AND METHOD FOR MACHINING AN ELECTRICAL CABLE                                             |
| SE-10901-NO-EPT | Norway                       | Granted                  | 31 Dec 2014 | 2559124          | 2559124            | ABB Technology AG | DEVICE AND METHOD FOR MACHINING AN ELECTRICAL CABLE                                             |
| SE-10901-SE-EPT | Sweden                       | Granted                  | 31 Dec 2014 | 2559124          | 2559124            | ABB Technology AG | DEVICE AND METHOD FOR MACHINING AN ELECTRICAL CABLE                                             |
| SE-10901-US-PCT | United States Of America     | Granted                  | 21 Jan 2014 | 8,932,284        | US-2013-0032011-A1 | ABB Technology AG | DEVICE AND METHOD FOR MACHINING AN ELECTRICAL CABLE                                             |
| SE-10916-CA-PCT | Canada                       | Granted                  | 25 Aug 2015 | 2,821,796        |                    | ABB Technology AG | High voltage electric cable                                                                     |
| SE-10916-CN-PCT | China                        | Granted                  | 01 Jul 2015 | 21201080070677-2 | CN103262177 A      | ABB Technology AG | High voltage electric cable                                                                     |
| SE-10916-FR-EPT | France                       | Granted                  | 25 Feb 2015 | 2652754          | 2652754            | ABB Technology AG | High voltage electric cable                                                                     |
| SE-10916-GB-EPT | United Kingdom               | Granted                  | 25 Feb 2015 | 2652754          | 2652754            | ABB Technology AG | High voltage electric cable                                                                     |
| SE-10916-JP-PCT | Japan                        | Granted                  | 09 Jan 2015 | 5674961          | 2014-505325        | ABB Technology AG | High voltage electric cable                                                                     |
| SE-10916-US-PCT | United States Of America     | Granted                  | 30 Sep 2014 | 8,847,069        | US-2013-0268966    | ABB Technology AG | High voltage electric cable                                                                     |
| SE-11244-CA-PCT | Canada                       | Granted                  | 05 Apr 2016 | 2,856,751        |                    | ABB RESEARCH LTD  | A thickness controlled laminated insulation layer for a direct current (DC) transmission system |
| SE-11244-CN-PCT | China                        | Pending                  |             |                  | 2011800750531      | ABB RESEARCH LTD  | A thickness controlled laminated insulation layer for a direct current (DC) transmission system |
| SE-11244-FI-EPT | Finland                      | Pending                  |             |                  | 46777CHENP/2014 A  | ABB RESEARCH LTD  | A thickness controlled laminated insulation layer for a direct current (DC) transmission system |
| SE-11244-IT-EPT | Italy                        | Granted                  | 18 Nov 2015 | 2783373          | 2783373            | ABB RESEARCH LTD  | A thickness controlled laminated insulation layer for a direct current (DC) transmission system |
| SE-11244-NO-EPT | Norway                       | Granted                  | 18 Nov 2015 | 2783373          | 2783373            | ABB RESEARCH LTD  | A thickness controlled laminated insulation layer for a direct current (DC) transmission system |



| Case Reference  | Country                          | Status        | Grant date  | Grant Number     | Publication Number | Applicants (List)  | English Title                                                                                          |
|-----------------|----------------------------------|---------------|-------------|------------------|--------------------|--------------------|--------------------------------------------------------------------------------------------------------|
| SE-11244-SE-EPT | Sweden                           | Granted       | 18 Nov 2015 | 2763373          | 2763373            | ABB RESEARCH LTD   | A thickness controlled laminated insulation layer for a direct current (DC) transmission system        |
| SE-11244-US-PCT | United States Of America         | Granted       | 08 Sep 2015 | 9,129,721        | US-2014-0251654-A1 | ABB RESEARCH LTD   | A thickness controlled laminated insulation layer for a direct current (DC) transmission system        |
| SE-11271-CN-PCT | China                            | Pending       |             |                  | CN10420894A        | ABB Technology Ltd | Method for determining an electrical property of cable insulation                                      |
| SE-11271-EP-EPT | European Procedure (Patents)     | Pending       |             |                  | 2931606            | ABB Technology Ltd | Method for determining an electrical property of cable insulation                                      |
| SE-11271-IN-PCT | India                            | Pending       |             |                  |                    | ABB Technology Ltd | Method for determining an electrical property of cable insulation                                      |
| SE-11271-US-PCT | United States Of America         | Grant         | 01 Nov 2016 | 9,482,715        | US-2015-0015279-A1 | ABB Technology Ltd | Method for determining an electrical property of cable insulation                                      |
| SE-11286-CA-PCT | Canada                           | Granted       | 28 Jan 2016 | 2,865,235        |                    | ABB Technology Ltd | A joint including two sections of a power cable and a method for joining two sections of a power cable |
| SE-11286-CN-PCT | China                            | Pending       |             |                  | CN104145388 A      | ABB Technology Ltd | A joint including two sections of a power cable and a method for joining two sections of a power cable |
| SE-11286-DE-EPT | Germany                          | Grant         | 03 Feb 2016 | 2820732          | 2820732            | ABB Technology Ltd | A joint including two sections of a power cable and a method for joining two sections of a power cable |
| SE-11286-FI-EPT | Finland                          | Granted       | 03 Feb 2016 | 2820732          | 2820732            | ABB Technology Ltd | A joint including two sections of a power cable and a method for joining two sections of a power cable |
| SE-11286-FR-EPT | France                           | Granted       | 03 Feb 2016 | 2820732          | 2820732            | ABB Technology Ltd | A joint including two sections of a power cable and a method for joining two sections of a power cable |
| SE-11286-GB-EPT | United Kingdom                   | Pending       | 03 Feb 2016 | 2820732          | 2820732            | ABB Technology Ltd | A joint including two sections of a power cable and a method for joining two sections of a power cable |
| SE-11286-IN-PCT | India                            | Pending       |             |                  |                    | ABB Technology Ltd | A joint including two sections of a power cable and a method for joining two sections of a power cable |
| SE-11286-IT-EPT | Italy                            | Grant         | 03 Feb 2016 | 2820732          | 2820732            | ABB Technology Ltd | A joint including two sections of a power cable and a method for joining two sections of a power cable |
| SE-11286-NL-EPT | Netherlands                      | Granted       | 03 Feb 2016 | 2820732          | 2820732            | ABB Technology Ltd | A joint including two sections of a power cable and a method for joining two sections of a power cable |
| SE-11286-NO-EPT | Norway                           | Granted       | 03 Feb 2016 | 2820732          | 2820732            | ABB Technology Ltd | A joint including two sections of a power cable and a method for joining two sections of a power cable |
| SE-11286-SE-EPT | Sweden                           | Granted       | 03 Feb 2016 | 2820732          | 2820732            | ABB Technology Ltd | A joint including two sections of a power cable and a method for joining two sections of a power cable |
| SE-11286-US-PCT | United States Of America         | Granted       | 15 Sep 2015 | 9,136,040        | US-2014-0367164-A1 | ABB Technology Ltd | A joint including two sections of a power cable and a method for joining two sections of a power cable |
| SE-11343-BR-PCT | Brazil                           | Pending       |             |                  |                    | ABB Technology Ltd | AN APPARATUS AND A METHOD FOR JOINING A FIRST AND A SECOND OPTICAL FIBRE OF A COMPOSITE CABLE          |
| SE-11343-CA-PCT | Canada                           | Granted       | 24 Mar 2016 | 2,877,305        |                    | ABB Technology Ltd | AN APPARATUS AND A METHOD FOR JOINING A FIRST AND A SECOND OPTICAL FIBRE OF A COMPOSITE CABLE          |
| SE-11343-CN-PCT | China                            | Grant         | 17 Aug 2016 | ZL2012900739986  | CN104350407A       | ABB Technology Ltd | AN APPARATUS AND A METHOD FOR JOINING A FIRST AND A SECOND OPTICAL FIBRE OF A COMPOSITE CABLE          |
| SE-11343-EP-EPT | European Procedure (Patents)     | Pending       |             |                  | 2864620            | ABB Technology Ltd | AN APPARATUS AND A METHOD FOR JOINING A FIRST AND A SECOND OPTICAL FIBRE OF A COMPOSITE CABLE          |
| SE-11343-IN-PCT | India                            | Pending       |             |                  |                    | ABB Technology Ltd | AN APPARATUS AND A METHOD FOR JOINING A FIRST AND A SECOND OPTICAL FIBRE OF A COMPOSITE CABLE          |
| SE-11343-JP-PCT | Japan                            | Granted       | 04 Dec 2015 | 5847353          | 2015-521755        | ABB Technology Ltd | AN APPARATUS AND A METHOD FOR JOINING A FIRST AND A SECOND OPTICAL FIBRE OF A COMPOSITE CABLE          |
| SE-11343-KR-PCT | South Korea / RePending of Korea | Granted       | 10 Jun 2015 | 1329456          |                    | ABB Technology Ltd | AN APPARATUS AND A METHOD FOR JOINING A FIRST AND A SECOND OPTICAL FIBRE OF A COMPOSITE CABLE          |
| SE-11343-US-PCT | United States Of America         | Granted       | 20 Oct 2015 | 9,164,252        | US-2015-0125116-A1 | ABB Technology Ltd | AN APPARATUS AND A METHOD FOR JOINING A FIRST AND A SECOND OPTICAL FIBRE OF A COMPOSITE CABLE          |
| SE-11386-AU-PCT | Australia                        | Granted       | 11 Feb 2016 | 2012396396       |                    | ABB Technology Ltd | A METHOD AND AN APPARATUS FOR HEAT TREATMENT OF AN ELECTRIC POWER CABLE                                |
| SE-11386-CA-PCT | Canada                           | Granted       | 02 Feb 2016 | 2,892,675        |                    | ABB Technology Ltd | A METHOD AND AN APPARATUS FOR HEAT TREATMENT OF AN ELECTRIC POWER CABLE                                |
| SE-11386-CN-PCT | China                            | Grant         | 19 Oct 2016 | ZL201260077639.9 | 104969306          | ABB Technology Ltd | A METHOD AND AN APPARATUS FOR HEAT TREATMENT OF AN ELECTRIC POWER CABLE                                |
| SE-11386-EP-EPT | European Procedure (Patents)     | Expired/Grant | 29 Nov 2016 | 2932511          | 2932511            | ABB Technology Ltd | A METHOD AND AN APPARATUS FOR HEAT TREATMENT OF AN ELECTRIC POWER CABLE                                |
| SE-11386-DE-EPT | Germany                          | Grant         | 30 Nov 2016 | 2932511          | 2932511            | ABB Schweiz AG     | Heat treatment Extruded DC cables                                                                      |
| SE-11386-FI-EPT | Finland                          | Grant         | 30 Nov 2016 | 2932511          | 2932511            | ABB Schweiz AG     | Heat treatment Extruded DC cables                                                                      |
| SE-11386-FR-EPT | France                           | Grant         | 30 Nov 2016 | 2932511          | 2932511            | ABB Schweiz AG     | Heat treatment Extruded DC cables                                                                      |
| SE-11386-GB-EPT | United Kingdom                   | Grant         | 30 Nov 2016 | 2932511          | 2932511            | ABB Schweiz AG     | Heat treatment Extruded DC cables                                                                      |
| SE-11386-GR-EPT | Greece                           | Grant         | 30 Nov 2016 | 2932511          | 2932511            | ABB Schweiz AG     | Heat treatment Extruded DC cables                                                                      |
| SE-11386-IT-EPT | Italy                            | Grant         | 30 Nov 2016 | 2932511          | 2932511            | ABB Schweiz AG     | Heat treatment Extruded DC cables                                                                      |
| SE-11386-JP-EPT | Japan                            | Grant         | 30 Nov 2016 | 2932511          | 2932511            | ABB Schweiz AG     | Heat treatment Extruded DC cables                                                                      |
| SE-11386-KR-EPT | South Korea / RePending of Korea | Grant         | 28 Jan 2016 | 1591636          | 2016-503942        | ABB Technology Ltd | A METHOD AND AN APPARATUS FOR HEAT TREATMENT OF AN ELECTRIC POWER CABLE                                |
| SE-11386-US-PCT | United States Of America         | Pending       |             |                  | US-2015-0332815-A1 | ABB Technology Ltd | A METHOD AND AN APPARATUS FOR HEAT TREATMENT OF AN ELECTRIC POWER CABLE                                |
| SE-11392-CA-PCT | Canada                           | Granted       | 18 Aug 2015 | 2,894,629        |                    | ABB RESEARCH LTD   | A radial water barrier and a dynamic high voltage submarine cable for deep water applications          |
| SE-11392-CN-PCT | China                            | Grant         | 15 Jun 2016 | ZL201290075805.1 | 104737241          | ABB RESEARCH LTD   | A radial water barrier and a dynamic high voltage submarine cable for deep water applications          |

| Case Reference  | Country                          | Status        | Grant date  | Grant Number | Publication Number | Applicants (List)  | English Title                                                                                 |
|-----------------|----------------------------------|---------------|-------------|--------------|--------------------|--------------------|-----------------------------------------------------------------------------------------------|
| SE-11392-EP-EPT | European Procedure (Patents)     | Expired/Grant | 08 Nov 2016 | 2896053      | 2896053            | ABB RESEARCH LTD   | A radial water barrier and a dynamic high voltage submarine cable for deep water applications |
| SE-11392-DE-EPT | Germany                          | Grant         | 09 Nov 2016 | 2896053      | 2896053            | ABB RESEARCH LTD   | Deeply Corrugated Water Barrier                                                               |
| SE-11392-DE-EPT | Germany                          | Grant         | 09 Nov 2016 | 2896053      | 2896053            | ABB RESEARCH LTD   | Deeply Corrugated Water Barrier                                                               |
| SE-11392-DE-EPT | Germany                          | Grant         | 09 Nov 2016 | 2896053      | 2896053            | ABB RESEARCH LTD   | Deeply Corrugated Water Barrier                                                               |
| SE-11392-DE-EPT | Germany                          | Grant         | 09 Nov 2016 | 2896053      | 2896053            | ABB RESEARCH LTD   | Deeply Corrugated Water Barrier                                                               |
| SE-11392-DE-EPT | Germany                          | Grant         | 09 Nov 2016 | 2896053      | 2896053            | ABB RESEARCH LTD   | Deeply Corrugated Water Barrier                                                               |
| SE-11392-IT-EPT | Italy                            | Grant         | 09 Nov 2016 | 2896053      | 2896053            | ABB RESEARCH LTD   | Deeply Corrugated Water Barrier                                                               |
| SE-11392-NO-EPT | Norway                           | Grant         | 09 Nov 2016 | 2896053      | 2896053            | ABB RESEARCH LTD   | Deeply Corrugated Water Barrier                                                               |
| SE-11392-SE-EPT | Sweden                           | Grant         | 09 Nov 2016 | 2896053      | 2896053            | ABB RESEARCH LTD   | Deeply Corrugated Water Barrier                                                               |
| SE-11392-IN-PCT | India                            | Pending       |             |              |                    | ABB RESEARCH LTD   |                                                                                               |
| SE-11392-US-PCT | United States Of America         | Granted       | 27 Oct 2015 | 9,171,659    |                    | ABB RESEARCH LTD   | A radial water barrier and a dynamic high voltage submarine cable for deep water applications |
| SE-11444-EP-EPT | European Procedure (Patents)     | Expired/Grant | 14 Sep 2016 | 2920239      | 2920239            | ABB RESEARCH LTD   | A radial water barrier and a dynamic high voltage submarine cable for deep water applications |
| SE-11444-DE-EPT | Germany                          | Grant         | 14 Sep 2016 | 2920239      | 2920239            | ABB RESEARCH LTD   | CHEMICALLY CROSS-LINKED POLYETHYLENE USED FOR ELECTRICAL INSULATION                           |
| SE-11444-FR-EPT | France                           | Grant         | 14 Sep 2016 | 2920239      | 2920239            | ABB RESEARCH LTD   | Chemically cross-linked polyethylene free of polar by-products used for electrical insulation |
| SE-11444-GB-EPT | United Kingdom                   | Grant         | 14 Sep 2016 | 2920239      | 2920239            | ABB RESEARCH LTD   | Chemically cross-linked polyethylene free of polar by-products used for electrical insulation |
| SE-11481-AU-PCT | Australia                        | Grant         | 29 Jul 2016 | 2013376427   |                    | ABB Technology Ltd | METHOD IN THE MANUFACTURING OF AN INSULATED ELECTRIC HIGH VOLTAGE DC TERMINATION OR JOINT     |
| SE-11481-CA-PCT | Canada                           | Pending       |             |              |                    | ABB Technology Ltd | METHOD IN THE MANUFACTURING OF AN INSULATED ELECTRIC HIGH VOLTAGE DC TERMINATION OR JOINT     |
| SE-11481-CN-PCT | China                            | Pending       |             |              | 105247628          | ABB Technology Ltd | METHOD IN THE MANUFACTURING OF AN INSULATED ELECTRIC HIGH VOLTAGE DC TERMINATION OR JOINT     |
| SE-11481-EF-EPT | European Procedure (Patents)     | Pending       |             |              | 2951642            | ABB Technology Ltd | METHOD IN THE MANUFACTURING OF AN INSULATED ELECTRIC HIGH VOLTAGE DC TERMINATION OR JOINT     |
| SE-11481-IN-PCT | India                            | Pending       |             |              |                    | ABB Technology Ltd | METHOD IN THE MANUFACTURING OF AN INSULATED ELECTRIC HIGH VOLTAGE DC TERMINATION OR JOINT     |
| SE-11481-JP-PCT | Japan                            | Pending       |             |              |                    | ABB Technology Ltd | METHOD IN THE MANUFACTURING OF AN INSULATED ELECTRIC HIGH VOLTAGE DC TERMINATION OR JOINT     |
| SE-11481-KR-PCT | South Korea / RePending of Korea | Pending       |             |              |                    | ABB Technology Ltd | METHOD IN THE MANUFACTURING OF AN INSULATED ELECTRIC HIGH VOLTAGE DC TERMINATION OR JOINT     |
| SE-11481-US-PCT | United States Of America         | Pending       |             |              |                    | ABB Technology Ltd | METHOD IN THE MANUFACTURING OF AN INSULATED ELECTRIC HIGH VOLTAGE DC TERMINATION OR JOINT     |
| SE-11532-CN-PCT | China                            | Pending       |             |              | 105531773          | ABB Technology Ltd | MIXED SOLID INSULATION MATERIAL FOR A TRANSMISSION SYSTEM                                     |
| SE-11532-EP-EPT | European Procedure (Patents)     | To be Grant   | 13 Dec 2016 | 2381976      | 2981976            | ABB Technology Ltd | MIXED SOLID INSULATION MATERIAL FOR A TRANSMISSION SYSTEM                                     |
| SE-11532-GB-EPT | United Kingdom                   | To be Grant   | 14 Dec 2016 | 2381976      | 2981976            | ABB Schweiz AG     | Mixed Solid Insulation for Advanced MI DC Cables                                              |
| SE-11532-IT-EPT | Italy                            | To be Grant   | 15 Dec 2016 | 2381976      | 2981976            | ABB Schweiz AG     | Mixed Solid Insulation for Advanced MI DC Cables                                              |
| SE-11532-NO-EPT | Norway                           | To be Grant   | 15 Dec 2016 | 2381976      | 2981976            | ABB Schweiz AG     | Mixed Solid Insulation for Advanced MI DC Cables                                              |
| SE-11532-SE-EPT | Sweden                           | To be Grant   | 17 Dec 2016 | 2381976      | 2981976            | ABB Schweiz AG     | Mixed Solid Insulation for Advanced MI DC Cables                                              |
| SE-11532-IN-PCT | India                            | Pending       |             |              |                    | ABB Technology Ltd | MIXED SOLID INSULATION MATERIAL FOR A TRANSMISSION SYSTEM                                     |
| SE-11532-JP-PCT | Japan                            | Abd           |             |              |                    | ABB Technology Ltd | MIXED SOLID INSULATION MATERIAL FOR A TRANSMISSION SYSTEM                                     |
| SE-11532-KR-PCT | South Korea / RePending of Korea | Granted       | 09 Mar 2016 | 1603873      |                    | ABB Technology Ltd | MIXED SOLID INSULATION MATERIAL FOR A TRANSMISSION SYSTEM                                     |
| SE-11532-US-PCT | United States Of America         | Pending       |             |              | US-2016-0049219-A1 | ABB Technology Ltd | MIXED SOLID INSULATION MATERIAL FOR A TRANSMISSION SYSTEM                                     |
| SE-11601-EP-EPT | European Procedure (Patents)     | Pending       |             |              | 3033390            | ABB Technology Ltd | THERMOPLASTIC BLEND FORMULATIONS FOR CABLE INSULATIONS                                        |
| SE-11602-CN-PCT | China                            | Pending       |             |              | 105612205          | ABB Technology Ltd | THERMOPLASTIC BLEND FORMULATIONS FOR CABLE INSULATIONS                                        |
| SE-11602-EP-EPT | European Procedure (Patents)     | Pending       |             |              | 3033391            | ABB Technology Ltd | THERMOPLASTIC BLEND FORMULATIONS FOR CABLE INSULATIONS                                        |
| SE-11602-IN-PCT | India                            | Pending       |             |              |                    | ABB Technology Ltd | THERMOPLASTIC BLEND FORMULATIONS FOR CABLE INSULATIONS                                        |
| SE-11602-JP-PCT | Japan                            | Pending       |             |              |                    | ABB Technology Ltd | THERMOPLASTIC BLEND FORMULATIONS FOR CABLE INSULATIONS                                        |
| SE-11602-KR-PCT | South Korea / RePending of Korea | Pending       |             |              |                    | ABB Technology Ltd | THERMOPLASTIC BLEND FORMULATIONS FOR CABLE INSULATIONS                                        |
| SE-11602-US-PCT | United States Of America         | Pending       |             |              |                    | ABB Technology Ltd | THERMOPLASTIC BLEND FORMULATIONS FOR CABLE INSULATIONS                                        |
| SE-11602-WO-PCT | International Procedure          | Pending       |             |              | WO2015/022004      | ABB Technology Ltd | THERMOPLASTIC BLEND FORMULATIONS FOR CABLE INSULATIONS                                        |
| SE-11604-CN-PCT | China                            | Pending       |             |              | 105474963          | ABB Technology Ltd | A POWER CABLE ASSEMBLY DEVICE AND A POWER CABLE PROVIDED WITH SUCH A DEVICE                   |

| Case Reference     | Country                          | Status       | Grant date  | Grant Number | Publication Number | Applicants (List)  | English Title                                                                                     |
|--------------------|----------------------------------|--------------|-------------|--------------|--------------------|--------------------|---------------------------------------------------------------------------------------------------|
| SE-11604-EP-EPT    | European Procedures (Patents)    | Pending      |             |              | 3011374            | ABB Technology Ltd | A POWER CABLE ASSEMBLY DEVICE AND A POWER CABLE PROVIDED WITH SUCH A DEVICE                       |
| SE-11604-US-PCT    | United States Of America         | Grant        | 22 Nov 2016 | 9,502,157    | US-2016-0111186-A1 | ABB Technology Ltd | A POWER CABLE ASSEMBLY DEVICE AND A POWER CABLE PROVIDED WITH SUCH A DEVICE                       |
| SE-11611-CN-PCT    | China                            | Pending      |             |              | 105452024          | ABB Technology Ltd | A TOOL FOR OPENING AN EXTRUDED PROFILED BODY OF A POWER CORD ASSEMBLY DEVICE                      |
| SE-11611-EP-EPT    | European Procedure (Patents)     | Pending      |             |              | 3011376            | ABB Technology Ltd | A TOOL FOR OPENING AN EXTRUDED PROFILED BODY OF A POWER CORD ASSEMBLY DEVICE                      |
| SE-11611-US-PCT    | United States Of America         | Granted      | 24 Mar 2016 | 9,348,107    | US-2016-0065043-A1 | ABB Technology Ltd | A TOOL FOR OPENING AN EXTRUDED PROFILED BODY OF A POWER CORD ASSEMBLY DEVICE                      |
| SE-11613-CN-PCT[2] | China                            | Pending      |             |              |                    | ABB Technology Ltd | AN ELECTRICAL HV TRANSMISSION POWER CABLE                                                         |
| SE-11613-EP-EPT[2] | European Procedure (Patents)     | Pending      |             |              |                    | ABB Technology Ltd | AN ELECTRICAL HV TRANSMISSION POWER CABLE                                                         |
| SE-11613-US-PCT[2] | United States Of America         | Pending      |             |              |                    | ABB Technology Ltd | AN ELECTRICAL HV TRANSMISSION POWER CABLE                                                         |
| SE-11613-WO-PCT[2] | International Procedure          | Expiry       |             |              | WO2015/090643      | ABB Technology Ltd | AN ELECTRICAL HV TRANSMISSION POWER CABLE                                                         |
| SE-11615-CN-PCT    | China                            | Pending      |             |              |                    | ABB Technology Ltd | A power cable assembly device and a power cable provided with such a device                       |
| SE-11615-EP-EPT    | European Procedure (Patents)     | Pending      |             |              | 3011375            | ABB Technology Ltd | A power cable assembly device and a power cable provided with such a device                       |
| SE-11615-US-PCT    | United States Of America         | Abd          |             |              | US-2016-0070930-A1 | ABB Technology Ltd | A power cable assembly device and a power cable provided with such a device                       |
| SE-11615-CN-PCT    | China                            | Pending      |             |              | CN10561862A        | ABB Technology Ltd | Tool and method for extracting wires from a cable                                                 |
| SE-11619-EP-EPT    | European Procedure (Patents)     | Pending      |             |              |                    | ABB Technology Ltd | Tool and method for extracting wires from a cable                                                 |
| SE-11619-US-PCT    | United States Of America         | Grant        | 22 Nov 2016 | 9,502,669    |                    | ABB Technology Ltd | Tool and method for extracting wires from a cable                                                 |
| SE-11647-CA-PCT    | Canada                           | Pending      |             |              |                    | ABB Technology Ltd | Bundle of cables, a method of laying cables and use of a securing means                           |
| SE-11647-EP-EPT    | European Procedure (Patents)     | Pending      |             |              |                    | ABB Technology Ltd | Bundle of cables, a method of laying cables and use of a securing means                           |
| SE-11647-US-PCT    | United States Of America         | Pending      |             |              |                    | ABB Technology Ltd | A POWER CABLE ASSEMBLY DEVICE AND A POWER CABLE PROVIDED WITH SUCH A DEVICE                       |
| SE-11661-AU-PCT    | Australia                        | Pending      |             |              |                    | ABB Technology Ltd | A POWER CABLE ASSEMBLY DEVICE AND A POWER CABLE PROVIDED WITH SUCH A DEVICE                       |
| SE-11661-EP-EPT    | European Procedure (Patents)     | Pending      |             |              |                    | ABB Technology Ltd | A POWER CABLE ASSEMBLY DEVICE AND A POWER CABLE PROVIDED WITH SUCH A DEVICE                       |
| SE-11661-JP-PCT    | Japan                            | Pending      |             |              |                    | ABB Technology Ltd | A POWER CABLE ASSEMBLY DEVICE AND A POWER CABLE PROVIDED WITH SUCH A DEVICE                       |
| SE-11661-KR-PCT    | South Korea / RePending of Korea | Pending      |             |              |                    | ABB Technology Ltd | A POWER CABLE ASSEMBLY DEVICE AND A POWER CABLE PROVIDED WITH SUCH A DEVICE                       |
| SE-11661-US-PCT    | United States Of America         | Pending      |             |              |                    | ABB Technology Ltd | A POWER CABLE ASSEMBLY DEVICE AND A POWER CABLE PROVIDED WITH SUCH A DEVICE                       |
| SE-11662-AU-PCT    | Australia                        | Pending      |             |              |                    | ABB Technology Ltd | AN ARRANGEMENT FOR A DYNAMIC HIGH VOLTAGE SUBSEA CABLE AND A DYNAMIC HIGH VOLTAGE SUBSEA CABLE    |
| SE-11662-CA-PCT    | Canada                           | Pending      |             |              |                    | ABB Technology Ltd | AN ARRANGEMENT FOR A DYNAMIC HIGH VOLTAGE SUBSEA CABLE AND A DYNAMIC HIGH VOLTAGE SUBSEA CABLE    |
| SE-11662-EP-EPT    | European Procedure (Patents)     | Pending      |             |              |                    | ABB Technology Ltd | AN ARRANGEMENT FOR A DYNAMIC HIGH VOLTAGE SUBSEA CABLE AND A DYNAMIC HIGH VOLTAGE SUBSEA CABLE    |
| SE-11662-US-PCT    | United States Of America         | Abd          |             |              |                    | ABB Technology Ltd | AN ARRANGEMENT FOR A DYNAMIC HIGH VOLTAGE SUBSEA CABLE AND A DYNAMIC HIGH VOLTAGE SUBSEA CABLE    |
| SE-11696-AU-PCT    | Australia                        | Pending      |             |              |                    | ABB Technology Ltd | POWER CABLE TERMINATION DEVICE FOR GAS-INSULATED SWITCHGEAR                                       |
| SE-11696-CA-PCT    | Canada                           | Pending      |             |              |                    | ABB Technology Ltd | POWER CABLE TERMINATION DEVICE FOR GAS-INSULATED SWITCHGEAR                                       |
| SE-11696-CN-PCT    | China                            | Pending      |             |              |                    | ABB Technology Ltd | POWER CABLE TERMINATION DEVICE FOR GAS-INSULATED SWITCHGEAR                                       |
| SE-11696-EP-EPT    | European Procedure (Patents)     | Pending      |             |              |                    | ABB Technology Ltd | POWER CABLE TERMINATION DEVICE FOR GAS-INSULATED SWITCHGEAR                                       |
| SE-11696-IN-PCT    | India                            | Pending      |             |              |                    | ABB Technology Ltd | POWER CABLE TERMINATION DEVICE FOR GAS-INSULATED SWITCHGEAR                                       |
| SE-11696-JP-PCT    | Japan                            | Pending      |             |              |                    | ABB Technology Ltd | POWER CABLE TERMINATION DEVICE FOR GAS-INSULATED SWITCHGEAR                                       |
| SE-11696-KR-PCT    | South Korea / RePending of Korea | Pending      |             |              |                    | ABB Technology Ltd | POWER CABLE TERMINATION DEVICE FOR GAS-INSULATED SWITCHGEAR                                       |
| SE-11696-US-PCT    | United States Of America         | Pending      |             |              |                    | ABB Technology Ltd | POWER CABLE TERMINATION DEVICE FOR GAS-INSULATED SWITCHGEAR                                       |
| SE-11696-WO-PCT    | International Procedure          | Expiry       |             |              | WO2015/124180      | ABB Technology Ltd | POWER CABLE TERMINATION DEVICE FOR GAS-INSULATED SWITCHGEAR                                       |
| SE-11739-WO-PCT    | International Procedure          | Expiry       |             |              | WO2015/124179      | ABB Technology Ltd | METHOD OF ASSEMBLING A HANG-OFF DEVICE WITH A CABLE, A HANG-OFF DEVICE AND A HANG-OFF ARRANGEMENT |
| SE-11739-EP-EPT    | European Procedure (Patents)     | Local filing |             |              |                    | ABB Schweiz AG     | Grounded hang off with molded weight and force carrying core for armored high voltage cables      |
| SE-11740-WO-PCT    | International Procedure          | Abd          |             |              | WO2015/169367      | ABB Technology Ltd | A METHOD FOR A SUBSEA POWER CABLE INSTALLATION PROCEDURE                                          |
| SE-11741-SR-PCT    | Brazil                           | Pending      |             |              |                    | ABB Technology Ltd | POWER CABLE FILLER DEVICE AND POWER CABLE COMPRISING THE SAME                                     |
| SE-11741-CA-PCT    | Canada                           | Pending      |             |              |                    | ABB Technology Ltd | POWER CABLE FILLER DEVICE AND POWER CABLE COMPRISING THE SAME                                     |

| Case Reference     | Country                         | Status       | Grant date | Grant Number | Publication Number | Applicants (List)  | English Title                                                                                                                                                     |
|--------------------|---------------------------------|--------------|------------|--------------|--------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SE-11741-EP-EPT    | European Procedure (Patents)    | Pending      |            |              |                    | ABB Technology Ltd | POWER CABLE FILLER DEVICE AND POWER CABLE COMPRISING THE SAME                                                                                                     |
| SE-11741-P-PCT     | Japan                           | Pending      |            |              |                    | ABB Technology Ltd | POWER CABLE FILLER DEVICE AND POWER CABLE COMPRISING THE SAME                                                                                                     |
| SE-11741-KR-PCT    | South Korea / Republic of Korea | Pending      |            |              |                    | ABB Technology Ltd | POWER CABLE FILLER DEVICE AND POWER CABLE COMPRISING THE SAME                                                                                                     |
| SE-11741-US-PCT    | United States Of America        | Pending      |            |              |                    | ABB Technology Ltd | POWER CABLE FILLER DEVICE AND POWER CABLE COMPRISING THE SAME                                                                                                     |
| SE-11750-WO-PCT    | International Procedure         | Expiry       |            |              | WO2015/161894      | ABB Technology Ltd | BEND STIFFENER WITH BEND INDICATION                                                                                                                               |
| SE-11750-AU-PCT    | Australia                       | Local filing |            |              |                    | ABB Schweiz AG     | Beistütze, Bend Stiffener                                                                                                                                         |
| SE-11750-EP-EPT    | European Procedure (Patents)    | Local filing |            |              |                    | ABB Schweiz AG     | Beistütze, Bend Stiffener                                                                                                                                         |
| SE-11750-US-PCT    | United States Of America        | Local filing |            |              |                    | ABB Schweiz AG     | Beistütze, Bend Stiffener                                                                                                                                         |
| SE-11750-WO-PCT    | International Procedure         | Expiry       |            |              | WO 2015/169398     | ABB Technology Ltd | AN OPTICAL FIBER CABLE END ADAPTER, A CABLE CONNECTION ASSEMBLY AND A METHOD FOR OBTAINING A CABLE CONNECTION                                                     |
| SE-11765-EP-EPT    | European Procedure (Patents)    | Local filing |            |              |                    | ABB Schweiz AG     | Heizsink adapter collar for welding or soldering of FIMT-joints                                                                                                   |
| SE-11766-WO-PCT    | International Procedure         | Abd          |            |              | WO2015/135605      | ABB Technology Ltd | POWER CABLE AND METHOD OF MANUFACTURING THE SAME                                                                                                                  |
| SE-11832-WO-PCT    | International Procedure         | Expiry       |            |              | WO2016/030735      | ABB Technology Ltd | POWER TRANSMISSION CABLE                                                                                                                                          |
| SE-11832-CN-PCT    | China                           | Filing       |            |              |                    | ABB Schweiz AG     | Polymer composite for electrical cable insulation                                                                                                                 |
| SE-11832-EP-EPT    | European Procedure (Patents)    | Local filing |            |              |                    | ABB Schweiz AG     | Polymer composite for electrical cable insulation                                                                                                                 |
| SE-11832-JP-PCT    | Japan                           | Local filing |            |              |                    | ABB Schweiz AG     | Polymer composite for electrical cable insulation                                                                                                                 |
| SE-11832-KR-PCT    | South Korea / Republic of Korea | Filing       |            |              |                    | ABB Schweiz AG     | Polymer composite for electrical cable insulation                                                                                                                 |
| SE-11832-US-PCT    | United States Of America        | Local filing |            |              |                    | ABB Schweiz AG     | Polymer composite for electrical cable insulation                                                                                                                 |
| SE-11841-WO-PCT    | International Procedure         | Expiry       |            |              | WO2015/026539      | ABB Technology Ltd | Electric field control device for high power cable and method for manufacturing thereof                                                                           |
| SE-11841-CN-PCT    | China                           | Local filing |            |              |                    | ABB Technology Ltd | One-piece electric stress relief device consisting of a fieldgrading adapter and an insulating stresscone vulcanized together                                     |
| SE-11841-EP-EPT    | European Procedure (Patents)    | Local filing |            |              |                    | ABB Schweiz AG     | One-piece electric stress relief device consisting of a fieldgrading adapter and an insulating stresscone vulcanized together                                     |
| SE-11841-JP-PCT    | Japan                           | Local filing |            |              |                    | ABB Technology Ltd | One-piece electric stress relief device consisting of a fieldgrading adapter and an insulating stresscone vulcanized together                                     |
| SE-11841-KR-PCT    | South Korea / Republic of Korea | Filing       |            |              |                    | ABB Technology Ltd | One-piece electric stress relief device consisting of a fieldgrading adapter and an insulating stresscone vulcanized together                                     |
| SE-11841-US-PCT    | United States Of America        | Local filing |            |              |                    | ABB Technology Ltd | One-piece electric stress relief device consisting of a fieldgrading adapter and an insulating stresscone vulcanized together                                     |
| SE-11859-WO-PCT    | International Procedure         | Pending      |            |              | 2016/034213        | ABB Technology Ltd | AN INSULATED HIGH VOLTAGE CABLE TERMINATION DEVICE, A HOUSING AND A METHOD FOR STRAIGHTENING A LENGTH OF CABLE IN THE HOUSING                                     |
| SE-11909-WO-PCT    | International Procedure         | Pending      |            |              | WO2016/082860      | ABB Technology Ltd | JOINTED POWER CABLE AND METHOD OF MANUFACTURING THE SAME                                                                                                          |
| SE-11945-WO-PCT    | International Procedure         | Pending      |            |              |                    | ABB Technology Ltd | ELECTRIC POWER CABLE AND PROCESS FOR THE PRODUCTION OF ELECTRIC POWER CABLE                                                                                       |
| SE-11952-WO-PCT[2] | International Procedure         | Pending      |            |              |                    | ABB Technology Ltd | WELDING SLEEVE FOR ARMORED CABLES                                                                                                                                 |
| SE-11969-WO-PCT    | International Procedure         | Abd          |            |              | WO2015/197686      | ABB Technology Ltd | AN INSULATION SYSTEM FOR HV CABLE JOINT, A METHOD FOR FORMING A JOINT AND A CABLE JOINT                                                                           |
| SE-11978-WO-PCT    | International Procedure         | Pending      |            |              |                    | ABB Technology Ltd | DYNAMIC SUBMARINE POWER CABLE                                                                                                                                     |
| SE-11986-WO-PCT    | International Procedure         | Pending      |            |              |                    | ABB Technology Ltd | A RIGID JOINT ASSEMBLY                                                                                                                                            |
| SE-11987-WO-PCT    | International Procedure         | Pending      |            |              |                    | ABB Technology Ltd | A RIGID JOINT ASSEMBLY                                                                                                                                            |
| SE-12012-WO-PCT    | International Procedure         | Pending      |            |              |                    | ABB Technology Ltd | ELECTRIC POWER CABLE AND A PROCESS FOR THE PRODUCTION OF THE POWER CABLE                                                                                          |
| SE-12022-WO-PCT    | International Procedure         | Pending      |            |              |                    | ABB Technology Ltd | A METHOD OF BUILDING AN INSULATION SYSTEM AROUND A NAKED CONDUCTOR SECTION OF A POWER CABLE                                                                       |
| SE-12026-WO-PCT    | International Procedure         | Pending      |            |              |                    | ABB Technology Ltd | NEXT LEVEL NANOCOMPOSITES FOR ELECTRICAL INSULATION                                                                                                               |
| SE-12029-WO-PCT    | International Procedure         | Pending      |            |              |                    | ABB Technology Ltd | DEVICE AND METHOD FOR MEASURING CAPACITANCE OF POWER CABLES                                                                                                       |
| SE-12036-WO-PCT    | International Procedure         | Pending      |            |              |                    | ABB Technology Ltd | A TEMPORARY LOAD SECURING DEVICE FOR AN ARMORED HIGH VOLTAGE CABLE AND A METHOD FOR FACILITATING INSTALLATION-RELATED OPERATIONS OF AN ARMORED HIGH VOLTAGE CABLE |
| SE-12038-WO-PCT    | International Procedure         | Pending      |            |              |                    | ABB Technology Ltd | CONDUCTOR FOR A POWER TRANSMISSION CABLE AND A PROCESS FOR THE PRODUCTION OF THE CONDUCTOR                                                                        |
| SE-12047-WO-PCT    | International Procedure         | Pending      |            |              |                    | ABB Technology Ltd | POWER TRANSMISSION CABLE AND PROCESS FOR THE PRODUCTION OF POWER TRANSMISSION CABLE                                                                               |
| SE-12077-WO-PCT    | International Procedure         | Pending      |            |              |                    | ABB Technology Ltd | ELECTRIC POWER CABLE AND PROCESS FOR THE PRODUCTION OF ELECTRIC POWER CABLE                                                                                       |
| SE-12083-WO-PCT[2] | International Procedure         | Pending      |            |              |                    | ABB Technology Ltd | FLEXIBLE VULCANIZED JOINT BETWEEN TWO ELECTRIC POWER CABLES AND PROCESS FOR PRODUCING SAID JOINT                                                                  |

| Case Reference           | Country                  | Status                               | Grant date  | Grant Number      | Publication Number | Applicants (List)  | English Title                                                                                              |
|--------------------------|--------------------------|--------------------------------------|-------------|-------------------|--------------------|--------------------|------------------------------------------------------------------------------------------------------------|
| SE-12085-WO-PCT          | International Procedure  | Pending                              |             |                   |                    | ABB Technology Ltd | ELECTRIC POWER CABLE AND PROCESS FOR THE PRODUCTION OF ELECTRIC POWER CABLE                                |
| SE-16012-WO-PCT          | International Procedure  | Pending                              |             |                   |                    | ABB Technology Ltd | POWER TRANSMISSION CABLE AND A PROCESS TO MANUFACTURE THE CABLE                                            |
| SE-16018-WO-PCT          | International Procedure  | Pending                              |             |                   |                    | ABB Technology Ltd | A PROTECTIVE CASING FOR A HIGH VOLTAGE CABLE                                                               |
| SE-16040-WO-PCT          | International Procedure  | Pending                              |             |                   |                    | ABB Technology Ltd | <Not yet filed>                                                                                            |
| SE-16046-WO-PCT          | International Procedure  | Pending                              |             |                   |                    | ABB Technology Ltd | -JOINT-, TERMINATION OR CROSS-CONNECTION ARRANGEMENT FOR A CABLE AND METHOD FOR PROVIDING                  |
| SE-16046-WO-PCT          | International Procedure  | Pending                              |             |                   |                    | ABB Technology Ltd | A JOINT-, TERMINATION OR CROSS-CONNECTION ARRANGEMENT                                                      |
| SE-16046-WO-PCT          | International Procedure  | Pending                              |             |                   |                    | ABB Technology Ltd | A RIGID JOINT ASSEMBLY                                                                                     |
| SE-16050-SE-NP           | Sweden                   | Admitted                             |             |                   | SE 1600224-8       | ABB Technology Ltd | Electric power cable and a process for the production of the power cable                                   |
| SE-16193-SE-NP           | Sweden                   | Filing (to be ABD after publication) |             |                   |                    | ABB Schweiz AG     |                                                                                                            |
| COMPOSITE FILLER PROFILE |                          |                                      |             |                   |                    |                    |                                                                                                            |
| SE-9-343-CA-RD           | Canada                   | Granted                              | 18 Apr 2015 | 155603            |                    | ABB Technology Ltd | Tool for opening wires in cables                                                                           |
| SE-9-343-CN-RD           | China                    | Granted                              | 20 Mai 2015 | ZL 201430264530.3 |                    | ABB Technology Ltd | Tool for opening wires in cables                                                                           |
| SE-9-343-EU-CD           | European Union           | Pending                              |             |                   |                    | ABB Technology Ltd | Tool for opening wires in cables                                                                           |
| SE-9-343-US-CP           | United States Of America | Granted                              | 20 Oct 2015 | D741,124          |                    | ABB Technology Ltd | Tool for opening wires in cables                                                                           |
| SE-14030-US-NP           | United States Of America | Publication of application           |             |                   | US 2016-0163418 A1 | ABB Technology AG  | SYSTEMS AND METHODS FOR APPLYING METALLIC LAMINATES TO CABLES                                              |
| SE-14030-WO-PCT          | International Procedure  | Publication of application           |             |                   |                    | ABB Technology AG  | SYSTEMS AND METHODS FOR APPLYING METALLIC LAMINATES TO CABLES                                              |
| SE-14013-US-CIP          | United States Of America | Publication of application           |             |                   | WO 2016/094197     | ABB Technology AG  | HYBRID CONDUCTOR WITH CIRCUMFERENTIAL LAYERS                                                               |
| SE-14013-US-NP           | United States Of America | Publication of application           |             |                   | US-2015-0055943    | ABB Technology AG  | HYBRID CONDUCTOR                                                                                           |
| SE-14013-US-NP           | United States Of America | Publication of application           |             |                   | US-2015-0055942-A1 | ABB Technology AG  | HYBRID CONDUCTOR WITH CIRCUMFERENTIAL CONDUCTING LAYERS                                                    |
| SE-14013-WO-PCT          | International Procedure  | Publication of application           |             |                   | WO2016/094201      | ABB Technology AG  | SYSTEMS AND METHODS FOR AUTOMATED SPLICING AND TERMINATING LOW, MEDIUM, HIGH AND EXTRA HIGH VOLTAGE CABLES |
| SE-14068-US-NP           | United States Of America | Publication of application           |             |                   | US 2015-0164238 A1 | ABB Technology AG  | SYSTEMS AND METHODS FOR AUTOMATED SPLICING AND TERMINATING LOW, MEDIUM, HIGH AND EXTRA HIGH VOLTAGE CABLES |
| SE-14068-WO-PCT          | International Procedure  | Publication of application           |             |                   | WO2016/094184      | ABB Technology AG  | SYSTEMS AND METHODS FOR AUTOMATED SPLICING AND TERMINATING LOW, MEDIUM, HIGH AND EXTRA HIGH VOLTAGE CABLES |

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| Project Crown | IP Contribution Agreement | Schedule 1B                | Excluded IP | Case References   | Country            | Status             | Grant date                                                                                                                                           | Grant Number | Publication Number | Applicants (List) | English Title |
|---------------|---------------------------|----------------------------|-------------|-------------------|--------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------|-------------------|---------------|
|               |                           | Granted                    | 20 Apr 2016 | 2954603           | 2954603            | ABB Technology Ltd | A METHOD FOR PROVIDING AN INSULATED HIGH VOLTAGE POWER CABLE AND A HIGH VOLTAGE POWER CABLE ARRANGEMENT                                              |              |                    |                   |               |
|               |                           | Pending                    |             |                   |                    | ABB Technology Ltd | A METHOD FOR PROVIDING AN INSULATED HIGH VOLTAGE POWER CABLE AND A HIGH VOLTAGE POWER CABLE ARRANGEMENT                                              |              |                    |                   |               |
|               |                           | Granted                    | 20 Apr 2016 | 2954603           | 2954603            | ABB Technology Ltd | A METHOD FOR PROVIDING AN INSULATED HIGH VOLTAGE POWER CABLE AND A HIGH VOLTAGE POWER CABLE ARRANGEMENT                                              |              |                    |                   |               |
|               |                           | Pending                    |             |                   | 105144524          | ABB Technology Ltd | A METHOD FOR PROVIDING AN INSULATED HIGH VOLTAGE POWER CABLE AND A HIGH VOLTAGE POWER CABLE ARRANGEMENT                                              |              |                    |                   |               |
|               |                           | Granted                    | 20 Apr 2016 | 60 2014 307 587.5 | 2954603            | ABB Technology Ltd | A METHOD FOR PROVIDING AN INSULATED HIGH VOLTAGE POWER CABLE AND A HIGH VOLTAGE POWER CABLE ARRANGEMENT                                              |              |                    |                   |               |
|               |                           | Granted                    | 20 Apr 2016 | 2954603           | 2954603            | ABB Technology Ltd | A METHOD FOR PROVIDING AN INSULATED HIGH VOLTAGE POWER CABLE AND A HIGH VOLTAGE POWER CABLE ARRANGEMENT                                              |              |                    |                   |               |
|               |                           | Granted                    | 20 Apr 2016 | 2954603           | 2954603            | ABB Technology Ltd | A METHOD FOR PROVIDING AN INSULATED HIGH VOLTAGE POWER CABLE AND A HIGH VOLTAGE POWER CABLE ARRANGEMENT                                              |              |                    |                   |               |
|               |                           | Pending                    |             |                   |                    | ABB Technology Ltd | A METHOD FOR PROVIDING AN INSULATED HIGH VOLTAGE POWER CABLE AND A HIGH VOLTAGE POWER CABLE ARRANGEMENT                                              |              |                    |                   |               |
|               |                           | Granted                    | 20 Apr 2016 | 2954603           | 2954603            | ABB Technology Ltd | A METHOD FOR PROVIDING AN INSULATED HIGH VOLTAGE POWER CABLE AND A HIGH VOLTAGE POWER CABLE ARRANGEMENT                                              |              |                    |                   |               |
|               |                           | Pending                    |             |                   |                    | ABB Technology Ltd | A METHOD FOR PROVIDING AN INSULATED HIGH VOLTAGE POWER CABLE AND A HIGH VOLTAGE POWER CABLE ARRANGEMENT                                              |              |                    |                   |               |
|               |                           | Granted                    | 20 Apr 2016 | 1625812           |                    | ABB Technology Ltd | A METHOD FOR PROVIDING AN INSULATED HIGH VOLTAGE POWER CABLE AND A HIGH VOLTAGE POWER CABLE ARRANGEMENT                                              |              |                    |                   |               |
|               |                           | Granted                    | 20 Apr 2016 | 2954603           | 2954603            | ABB Technology Ltd | A METHOD FOR PROVIDING AN INSULATED HIGH VOLTAGE POWER CABLE AND A HIGH VOLTAGE POWER CABLE ARRANGEMENT                                              |              |                    |                   |               |
|               |                           | Pending                    |             |                   | US-2015-0357804-A1 | ABB Technology Ltd | A METHOD FOR PROVIDING AN INSULATED HIGH VOLTAGE POWER CABLE AND A HIGH VOLTAGE POWER CABLE ARRANGEMENT                                              |              |                    |                   |               |
|               |                           | Pending                    |             |                   |                    | ABB Technology Ltd | COMPOSITE INSULATION MATERIAL FOR AN ELECTRIC POWER CABLE, PROCESS TO MANUFACTURE A POWER CABLE AND A POWER CABLE CONTAINING THE INSULATION MATERIAL |              |                    |                   |               |
|               |                           | Publication of application |             |                   | 2016/012049        | ABB Technology AG  | Bulk power - high voltage transmission line (system)                                                                                                 |              |                    |                   |               |
|               |                           | Publication of application |             |                   | 2016/012050        | ABB Technology AG  | A flexible tubular electrical insulation line produced by multi-layer extrusion onto a flexible metal hose                                           |              |                    |                   |               |

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**Amendment**

dated as of February 9, 2017

**to the IP Contribution Agreement dated December 12, 2016**

by and between

**ABB Schweiz AG (CH)**  
Brown Boveri Strasse 6  
5400 Baden, Switzerland

(hereinafter **Transferor**)

and

**ABB HV Cables (Switzerland) GmbH**  
Brown Boveri Strasse 6  
5400 Baden, Switzerland

(hereinafter **Transferee**)

**(Transferor and Transferee each a Party, together the Parties)**

### Whereas

- A. The Parties to this amendment (the **Amendment**) are parties to a certain intellectual property rights contribution agreement, dated December 12, 2016 (the **Agreement**).
- B. This Amendment intends to cover the assignment and transfer of the intellectual property rights relating to the high voltage cables accessories business of the ABB group located in Alingsas from the Transferor to Transferee by way of a capital contribution. The transfer and assignment pursuant to this Amendment shall have retroactive economic effect as from January 1, 2017.
- C. Furthermore, it is intended to further supplement the schedules of the Agreement which specify the intellectual property rights relating to the high voltage cables business.
- D. Pursuant to Article 4.8 of the Agreement, the Agreement may only be modified or amended in writing through a document signed by each of the Parties.
- E. With this Amendment, the Parties wish to amend and complement the Agreement as set forth in this Amendment.

Now, therefore, the Parties agree as follows:

## 1. Definitions

Capitalized terms not defined in this Amendment shall have the meanings assigned to them in the Agreement.

## 2. Amendments

### 2.1 Title of the Agreement

In addition to the reference to the Intellectual Property Rights relating to the high voltage cables business of the ABB group, the title of the Agreement (on the front page) shall be amended to reflect the inclusion of the Intellectual Property Rights relating to the high voltage cable accessories business of the ABB group and shall hereby be amended by substituting in its place and stead the following:

"IP CONTRIBUTION AGREEMENT in relation to IP exclusively relating to the high voltage cables business and the cables accessories business of ABB Group".

### 2.2 Schedule 1A and 1B – Business Owned IP

In addition to the Intellectual Property Rights relating to the high voltage cables business of the ABB group listed in Schedule 1A and excluding the Excluded IP listed in Schedule 1B ("Business Owned IP"), Schedule 1A shall comprise the Intellectual Property Rights relating exclusively to



the high voltage cables accessories business, excluding the Intellectual Property Rights specified in Schedule 1B. Therefore, Schedule 1A and Schedule 1B of the Agreement shall both hereby be deleted and replaced by the attached supplemented and amended Schedule 1A and Schedule 1B.

Furthermore, with respect to the Intellectual Property Rights relating to the high voltage cables business of the ABB group, Schedule 1A and Schedule 1B shall hereby be supplemented with two additional columns ("Filing Number" and "Filing Date").

### 2.3 Recitals

In order to extend the scope of the Agreement to the high voltage cables accessories business, Recital A of the Agreement shall hereby be amended by substituting in its place and stead the following:

"The Transferor is the legal and/or beneficial owner of certain intellectual property rights exclusively relating to ABB group's business of developing, designing, manufacturing, selling, installing and servicing high voltage cables as stand-alone products and/or combined together as cable systems for both on- and offshore applications (the **Cables Business**) as well as to ABB group's business of developing, designing, manufacturing, selling, installing and servicing HVDC, HVAC, MVAC and LVAC cables accessories carried on at the site in Alingsås (the **Accessories Business**)."

The inclusion of the Intellectual Property Rights regarding the high voltage cable accessories business into the Agreement is linked to an amendment of the SPA to be executed shortly after the execution of this Amendment. Therefore, Recital B of the Agreement shall hereby be amended by substituting in its place and stead the following:

"On 21 September 2016 ABB Holdings B.V. as seller and NKT Cables Holding AB as purchaser and NKT Holding A/S as the purchaser's guarantor entered into an agreement for the sale and purchase of the entire issued share capital of ABB HV Cables (Holding) AB (the **SPA**). Under the SPA, in the context of the reorganisation of the Cables Business, it is contemplated, *inter alia*, that the Transferor transfers its intellectual property rights which exclusively relate to the Cables Business to the Transferee as a capital contribution to be valued at book value and that the Transferee carries on the Cables Business. Furthermore, it is intended to also sell and transfer the Accessories Business to the purchaser. This shall be implemented through an amendment agreement to the SPA."

### 2.4 Article 1. Definitions

A definition of "Accessories Business" shall be inserted as specified in Section 2.3 above.

The definition of "Business" shall be changed to "Cables Business" as specified in Section 2.3 above.

In order to cover any and all Intellectual Property Rights regarding the high voltage cables accessories business in the transfer and assignment under this Amendment, the definition of "Business Owned IP" shall include the "Accessories Business" (as defined herein) and shall hereby be amended by substituting in its place and stead the following:

**"Business Owned IP"** means all Intellectual Property Rights owned by the Transferor which exclusively relate to the Cables Business and the Accessories Business, including without limitation those listed in Schedule 1A, and excluding the Excluded IP;"

The reference to "Recital A" in the definition of "SPA" shall hereby be corrected to "Recital B".

### 3. General Provisions

This Amendment shall constitute an integral part of the Agreement. To the extent of any conflict between this Amendment and the Agreement the provisions of this Amendment shall take precedence over the conflicting provisions of the Agreement.

The provisions of the Agreement not affected by this Amendment shall remain in full force and effect and thus also apply to this Amendment.

#### ABB Schweiz AG (CH)

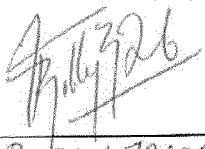
Date: Baden, February 9, 2017

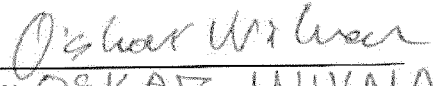
  
Name: REMO LÜTOLF  
Function: CEO

  
Name: RENÉ COTTING  
Function: CFO

#### ABB HV Cables (Switzerland) GmbH

Date: Zurich, February 9, 2017

  
Name: BOBBY JACOB SWEDJEMARK  
Function: AUTHORIZED SIGNATORY

  
Name: OSKAR WILMAN  
Function: AUTHORIZED SIGNATORY

## **Schedule 1A: Business Owned IP**

This Schedule 1A with all its content shall constitute an integral part of the Agreement.

*BBJ*

| Country                      | Status  | Grant Date  | Grant Number     | Publication Number | Filing Date | Filing Number   | Applicants (List)  | English Title                                                                                     |
|------------------------------|---------|-------------|------------------|--------------------|-------------|-----------------|--------------------|---------------------------------------------------------------------------------------------------|
| China                        | Granted | 29 Oct 2014 | ZL200910259025.2 | 101902024          | 09 Dec 2009 | 200910259025.2  | ABB RESEARCH LTD   | Flexible Vulcanized Cable Joint for Direct Current with Resistive Field Grader Material           |
| European Procedure (Patents) | Pending |             |                  |                    | 09 Dec 2008 | 08171035.2      | ABB RESEARCH LTD   | Flexible Vulcanized Cable Joint for Direct Current with Resistive Field Grader Material           |
| India                        | Pending |             |                  |                    | 09 Dec 2009 | 3037/CHE/2009   | ABB RESEARCH LTD   | Flexible Vulcanized Cable Joint for Direct Current with Resistive Field Grader Material           |
| United States Of America     | Granted | 12 Nov 2013 | 8578602          | 20100139974        | 09 Dec 2009 | 12/634,102      | ABB RESEARCH LTD   | Flexible Vulcanized Cable Joint for Direct Current with Resistive Field Grader Material           |
| United Kingdom               | Abd     | 24 Nov 2010 | 1325373          | 1325373            | 10 Sep 2001 | 01967867.1      | SEABB              | A method and a device for ensuring a satisfactory tensile strength when joining a submarine cable |
| Italy                        | Abd     | 24 Nov 2010 | 1325373          | 1325373            | 10 Sep 2001 | 01967867.1      | SEABB              | A method and a device for ensuring a satisfactory tensile strength when joining a submarine cable |
| Norway                       | Abd     | 12 May 2014 | 334724           |                    | 10 Sep 2001 | 20031128        | SEABB              | A method and a device for ensuring a satisfactory tensile strength when joining a submarine cable |
| Sweden                       | Abd     | 25 Feb 2003 | 0003234-2        | 519404             | 13 Sep 2000 | 0003234-2       | SEABB              | A method and a device for ensuring a satisfactory tensile strength when joining a submarine cable |
| United Kingdom               | Granted | 08 Jul 2009 | 1320916          | 1320916            | 06 Sep 2001 | 01967866.3      | SEABB              | A method of restoring armouring on a cable                                                        |
| Italy                        | Granted | 08 Jul 2009 | 1320916          | 1320916            | 06 Sep 2001 | 01967866.3      | SEABB              | A method of restoring armouring on a cable                                                        |
| Norway                       | Granted | 10 Dec 2012 | 332680           |                    | 06 Sep 2001 | 20031038        | SEABB              | A method of restoring armouring on a cable                                                        |
| Sweden                       | Granted | 17 Dec 2001 | 0003113-4        | 516339             | 07 Sep 2000 | 0003113-4       | SEABB              | A method of restoring armouring on a cable                                                        |
| United Kingdom               | Granted | 08 Jul 2009 | 1320915          | 1320915            | 06 Sep 2001 | 01963670.3      | SEABB              | A method of restoring armouring on a cable                                                        |
| Italy                        | Granted | 08 Jul 2009 | 1320915          | 1320915            | 06 Sep 2001 | 01963670.3      | SEABB              | A method of restoring armouring on a cable                                                        |
| Norway                       | Granted | 26 Nov 2012 | 332659           |                    | 06 Sep 2001 | 2003 1039       | SEABB              | A method of restoring armouring on a cable                                                        |
| Sweden                       | Granted | 17 Dec 2001 | 0003152-6        | 516340             | 07 Sep 2000 | 0003152-6       | SEABB              | A method of restoring armouring on a cable                                                        |
| Switzerland                  | Granted | 27 Feb 2013 | 2092537          | 2092537            | 18 Oct 2007 | 07835338.0      | ABB RESEARCH LTD   | High Voltage cable                                                                                |
| China                        | Granted | 24 Aug 2011 | ZL200780040742.5 | CN101536118A       | 18 Oct 2007 | 200780040742.5  | ABB RESEARCH LTD   | High Voltage cable                                                                                |
| Germany                      | Granted | 27 Feb 2013 | 2092537          | 2092537            | 18 Oct 2007 | 07835338.0      | ABB RESEARCH LTD   | High Voltage cable                                                                                |
| Denmark                      | Granted | 27 Feb 2013 | 2092537          | 2092537            | 18 Oct 2007 | 07835338.0      | ABB RESEARCH LTD   | High Voltage cable                                                                                |
| France                       | Granted | 27 Feb 2013 | 2092537          | 2092537            | 18 Oct 2007 | 07835338.0      | ABB RESEARCH LTD   | High Voltage cable                                                                                |
| United Kingdom               | Granted | 27 Feb 2013 | 2092537          | 2092537            | 18 Oct 2007 | 07835338.0      | ABB RESEARCH LTD   | High Voltage cable                                                                                |
| India                        | Pending |             |                  | 2144/DELNP/2009    | 18 Oct 2007 | 2144/DELNP/2009 | ABB RESEARCH LTD   | High Voltage cable                                                                                |
| Italy                        | Granted | 27 Feb 2013 | 2092537          | 2092537            | 18 Oct 2007 | 07835338.0      | ABB RESEARCH LTD   | High Voltage cable                                                                                |
| Netherlands                  | Granted | 27 Feb 2013 | 2092537          | 2092537            | 18 Oct 2007 | 07835338.0      | ABB RESEARCH LTD   | High Voltage cable                                                                                |
| Sweden                       | Granted | 17 Feb 2009 | 531308           | 0602332-9          | 03 Nov 2006 | 0602332-9       | ABB RESEARCH LTD   | High Voltage cable                                                                                |
| United States Of America     | Granted | 29 Nov 2011 | 8,067,694 B2     | US-2010-0078195-A1 | 18 Oct 2007 | 12/513434       | ABB RESEARCH LTD   | High Voltage cable                                                                                |
| United States Of America     | Grant   | 04 May 2010 | US 7,709,731     | US 2007/0289766    | 18 May 2007 | 11/802031       | ABB Technology Ltd | An electric power supply system and a method of production thereof                                |
| Brazil                       | Pending |             |                  | PI0720305-5        | 13 Dec 2007 | PI0720305-5     | ABB Technology Ltd | An electric power cable, an off-shore installation provided therewith, and use thereof            |
| Germany                      | Granted | 08 Dec 2010 | 2092536          | 2092536            | 13 Dec 2007 | 07848095.1      | ABB Technology Ltd | An electric power cable, an off-shore installation provided therewith, and use thereof            |
| United Kingdom               | Granted | 08 Dec 2010 | 2092536          | 2092536            | 13 Dec 2007 | 07848095.1      | ABB Technology Ltd | An electric power cable, an off-shore installation provided therewith, and use thereof            |
| India                        | Pending |             |                  |                    | 13 Dec 2007 | 4097/CHENP/2009 | ABB Technology Ltd | An electric power cable, an off-shore installation provided therewith, and use thereof            |
| Italy                        | Granted | 08 Dec 2010 | 2092536          | 2092536            | 13 Dec 2007 | 07848095.1      | ABB Technology Ltd | An electric power cable, an off-shore installation provided therewith, and use thereof            |
| Mexico                       | Granted | 15 Mar 2011 | 284762           | MX/a/2009/006386   | 13 Dec 2007 | 07848095.1      | ABB Technology Ltd | An electric power cable, an off-shore installation provided therewith, and use thereof            |
| Norway                       | Pending |             |                  |                    | 13 Dec 2007 | 20092610        | ABB Technology Ltd | An electric power cable, an off-shore installation provided therewith, and use thereof            |
| United States Of America     | Granted | 26 Aug 2014 | 8,816,206        | US-2010-0025071-A1 | 13 Dec 2007 | 12/519,296      | ABB Technology Ltd | An electric power cable, an off-shore installation provided therewith, and use thereof            |
| Brazil                       | Pending |             |                  | PI0811984-8        | 29 May 2008 | PI0811984-8     | ABB Technology AG  | An electric power cable                                                                           |
| China                        | Granted | 30 Nov 2011 | ZL200880017746.6 | CN101681697A       | 29 May 2008 | 200880017746.6  | ABB Technology AG  | An electric power cable                                                                           |
| Germany                      | Granted | 05 Aug 2015 | 2150960          | 2150960            | 29 May 2008 | 08760198.5      | ABB Technology AG  | An electric power cable                                                                           |
| Finland                      | Granted | 05 Aug 2015 | 2150960          | 2150960            | 29 May 2008 | 08760198.5      | ABB Technology AG  | An electric power cable                                                                           |
| France                       | Granted | 05 Aug 2015 | 2150960          | 2150960            | 29 May 2008 | 08760198.5      | ABB Technology AG  | An electric power cable                                                                           |
| United Kingdom               | Granted | 05 Aug 2015 | 2150960          | 2150960            | 29 May 2008 | 08760198.5      | ABB Technology AG  | An electric power cable                                                                           |
| India                        | Pending |             |                  |                    | 29 May 2008 | 7683/CHENP/2009 | ABB Technology AG  | An electric power cable                                                                           |

| Country                      | Status  | Grant Date  | Grant Number     | Publication Number | Filing Date | Filing Number   | Applicants (List)  | English Title                                                                                              |
|------------------------------|---------|-------------|------------------|--------------------|-------------|-----------------|--------------------|------------------------------------------------------------------------------------------------------------|
| Italy                        | Grant   | 05 Aug 2015 | 2150960          | 2150960            | 29 May 2008 | 08760198.5      | ABB Technology AG  | An electric power cable                                                                                    |
| Norway                       | Granted | 05 Aug 2015 | 2150960          | 2150960            | 29 May 2008 | 08760198.5      | ABB Technology AG  | An electric power cable                                                                                    |
| Sweden                       | Granted | 05 Aug 2015 | 2150960          | 2150960            | 29 May 2008 | 08760198.5      | ABB Technology AG  | An electric power cable                                                                                    |
| United States Of America     | Granted | 12 Mar 2015 | 9029704          | US2010/0136988A1   | 29 May 2008 | 127602.218      | ABB Technology AG  | METHOD FOR PROVIDING AN INSULATED ELECTRIC HIGH VOLTAGE DC CABLE OR A HIGH VOLTAGE DC TERMINATION OR JOINT |
| Australia                    | Granted | 17 Oct 2013 | 2009216829       |                    | 10 Feb 2009 | 2009216829      | ABB RESEARCH LTD   | METHOD FOR PROVIDING AN INSULATED ELECTRIC HIGH VOLTAGE DC CABLE OR A HIGH VOLTAGE DC TERMINATION OR JOINT |
| Belgium                      | Granted | 13 Oct 2010 | 2093774          | 2093774            | 20 Feb 2008 | EP08101802.0    | ABB RESEARCH LTD   | METHOD FOR PROVIDING AN INSULATED ELECTRIC HIGH VOLTAGE DC CABLE OR A HIGH VOLTAGE DC TERMINATION OR JOINT |
| Switzerland                  | Granted | 13 Oct 2010 | 2093774          | 2093774            | 20 Feb 2008 | EP08101802.0    | ABB RESEARCH LTD   | METHOD FOR PROVIDING AN INSULATED ELECTRIC HIGH VOLTAGE DC CABLE OR A HIGH VOLTAGE DC TERMINATION OR JOINT |
| China                        | Granted | 06 Nov 2013 | ZL200980101780.6 | CN101911213A       | 10 Feb 2009 | 200980101780.6  | ABB RESEARCH LTD   | METHOD FOR PROVIDING AN INSULATED ELECTRIC HIGH VOLTAGE DC CABLE OR A HIGH VOLTAGE DC TERMINATION OR JOINT |
| Germany                      | Granted | 13 Oct 2010 | 2093774          | 2093774            | 20 Feb 2008 | EP08101802.0    | ABB RESEARCH LTD   | METHOD FOR PROVIDING AN INSULATED ELECTRIC HIGH VOLTAGE DC CABLE OR A HIGH VOLTAGE DC TERMINATION OR JOINT |
| Spain                        | Granted | 13 Oct 2010 | 2093774          | 2093774            | 20 Feb 2008 | EP08101802.0    | ABB RESEARCH LTD   | METHOD FOR PROVIDING AN INSULATED ELECTRIC HIGH VOLTAGE DC CABLE OR A HIGH VOLTAGE DC TERMINATION OR JOINT |
| Finland                      | Granted | 13 Oct 2010 | 2093774          | 2093774            | 20 Feb 2008 | EP08101802.0    | ABB RESEARCH LTD   | METHOD FOR PROVIDING AN INSULATED ELECTRIC HIGH VOLTAGE DC CABLE OR A HIGH VOLTAGE DC TERMINATION OR JOINT |
| France                       | Granted | 13 Oct 2010 | 2093774          | 2093774            | 20 Feb 2008 | EP08101802.0    | ABB RESEARCH LTD   | METHOD FOR PROVIDING AN INSULATED ELECTRIC HIGH VOLTAGE DC CABLE OR A HIGH VOLTAGE DC TERMINATION OR JOINT |
| United Kingdom               | Granted | 13 Oct 2010 | 2093774          | 2093774            | 20 Feb 2008 | EP08101802.0    | ABB RESEARCH LTD   | METHOD FOR PROVIDING AN INSULATED ELECTRIC HIGH VOLTAGE DC CABLE OR A HIGH VOLTAGE DC TERMINATION OR JOINT |
| India                        | Pending |             |                  |                    | 10 Feb 2009 | 5172/CHNEP/2010 | ABB RESEARCH LTD   | METHOD FOR PROVIDING AN INSULATED ELECTRIC HIGH VOLTAGE DC CABLE OR A HIGH VOLTAGE DC TERMINATION OR JOINT |
| Italy                        | Granted | 13 Oct 2010 | 2093774          | 2093774            | 20 Feb 2008 | EP08101802.0    | ABB RESEARCH LTD   | METHOD FOR PROVIDING AN INSULATED ELECTRIC HIGH VOLTAGE DC CABLE OR A HIGH VOLTAGE DC TERMINATION OR JOINT |
| Netherlands                  | Granted | 13 Oct 2010 | 2093774          | 2093774            | 20 Feb 2008 | EP08101802.0    | ABB RESEARCH LTD   | METHOD FOR PROVIDING AN INSULATED ELECTRIC HIGH VOLTAGE DC CABLE OR A HIGH VOLTAGE DC TERMINATION OR JOINT |
| Norway                       | Granted | 13 Oct 2010 | 2093774          | 2093774            | 20 Feb 2008 | EP08101802.0    | ABB RESEARCH LTD   | METHOD FOR PROVIDING AN INSULATED ELECTRIC HIGH VOLTAGE DC CABLE OR A HIGH VOLTAGE DC TERMINATION OR JOINT |
| Russian Federation           | Granted | 10 Mar 2013 | 2477539          |                    | 10 Feb 2009 | 2010138624      | ABB RESEARCH LTD   | METHOD FOR PROVIDING AN INSULATED ELECTRIC HIGH VOLTAGE DC CABLE OR A HIGH VOLTAGE DC TERMINATION OR JOINT |
| Sweden                       | Granted | 13 Oct 2010 | 2093774          | 2093774            | 20 Feb 2008 | EP08101802.0    | ABB RESEARCH LTD   | METHOD FOR PROVIDING AN INSULATED ELECTRIC HIGH VOLTAGE DC CABLE OR A HIGH VOLTAGE DC TERMINATION OR JOINT |
| United States Of America     | Granted | 19 Mar 2013 | US 8,398,803     |                    | 10 Feb 2009 | 12/867918       | ABB RESEARCH LTD   | METHOD FOR PROVIDING AN INSULATED ELECTRIC HIGH VOLTAGE DC CABLE OR A HIGH VOLTAGE DC TERMINATION OR JOINT |
| European Procedure (Patents) | Pending |             |                  | 2332228            | 05 Sep 2008 | 08803723.9      | ABB RESEARCH LTD   | An arrangement for interconnecting two distant locations and a method for transmitting electric power      |
| Switzerland                  | Granted | 06 Jun 2012 | 2113978          | 2113978            | 30 Apr 2008 | EP08155452.9    | ABB Technology Ltd | A protective casing for a high voltage cable                                                               |
| China                        | Granted | 05 Jun 2013 | ZL200910137464.6 | CN101572359A       | 29 Apr 2008 | Z00910137464.6  | ABB Technology Ltd | A protective casing for a high voltage cable                                                               |
| Germany                      | Granted | 06 Jun 2012 | 2113978          | 2113978            | 30 Apr 2008 | EP08155452.9    | ABB Technology Ltd | A protective casing for a high voltage cable                                                               |
| Denmark                      | Granted | 06 Jun 2012 | 2113978          | 2113978            | 30 Apr 2008 | EP08155452.9    | ABB Technology Ltd | A protective casing for a high voltage cable                                                               |
| France                       | Granted | 06 Jun 2012 | 2113978          | 2113978            | 30 Apr 2008 | EP08155452.9    | ABB Technology Ltd | A protective casing for a high voltage cable                                                               |
| United Kingdom               | Granted | 06 Jun 2012 | 2113978          | 2113978            | 30 Apr 2008 | EP08155452.9    | ABB Technology Ltd | A protective casing for a high voltage cable                                                               |
| India                        | Pending |             |                  |                    | 15 Apr 2009 | 763/DEL/2009    | ABB Technology Ltd | A protective casing for a high voltage cable                                                               |

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| Country                      | Status                     | Grant Date  | Grant Number     | Publication Number | Filing Date | Filing Number     | Applicants (List)  | English Title                                                |
|------------------------------|----------------------------|-------------|------------------|--------------------|-------------|-------------------|--------------------|--------------------------------------------------------------|
| Italy                        | Granted                    | 06 Jun 2012 | 2113978          | 2113978            | 30 Apr 2008 | EP08155452.8      | ABB Technology Ltd | A protective casing for a high voltage cable                 |
| Netherlands                  | Granted                    | 06 Jun 2012 | 2113978          | 2113978            | 30 Apr 2008 | EP08155452.9      | ABB Technology Ltd | A protective casing for a high voltage cable                 |
| Norway                       | Granted                    | 06 Jun 2012 | 2113978          | 2113978            | 30 Apr 2008 | EP08155452.9      | ABB Technology Ltd | A protective casing for a high voltage cable                 |
| Sweden                       | Granted                    | 06 Jun 2012 | 2113978          | 2113978            | 30 Apr 2008 | EP08155452.9      | ABB Technology Ltd | A protective casing for a high voltage cable                 |
| United States Of America     | Granted                    | 17 Jul 2012 | 8,222,524        | US-2009-0272561-A1 | 30 Apr 2009 | 127433.054        | ABB Technology Ltd | A protective casing for a high voltage cable                 |
| Australia                    | Granted                    | 20 Aug 2012 | 2008365379       |                    | 17 Dec 2008 | 2008365379        | ABB Technology AG  | A DC cable for high voltages                                 |
| Canada                       | Granted                    | 18 Feb 2015 | 2,746,439        |                    | 17 Dec 2008 | 2,746,439         | ABB Technology AG  | A DC cable for high voltages                                 |
| China                        | Granted                    | 10 Dec 2014 | ZL200880132401.5 | CN102257578        | 17 Dec 2008 | 200880132401.5    | ABB Technology AG  | A DC cable for high voltages                                 |
| Germany                      | Granted                    | 25 Feb 2015 | 2380177          | 2380177            | 17 Dec 2008 | 08875467.6        | ABB Technology AG  | A DC cable for high voltages                                 |
| France                       | Granted                    | 25 Feb 2015 | 2380177          | 2380177            | 17 Dec 2008 | 08875467.6        | ABB Technology AG  | A DC cable for high voltages                                 |
| United Kingdom               | Granted                    | 25 Feb 2015 | 2380177          | 2380177            | 17 Dec 2008 | 08875467.6        | ABB Technology AG  | A DC cable for high voltages                                 |
| India                        | Pending                    |             |                  | 50157/CHENP/2011 A | 17 Dec 2008 | 08875467.6        | ABB Technology AG  | A DC cable for high voltages                                 |
| Italy                        | Granted                    | 25 Feb 2015 | 2380177          | 2380177            | 17 Dec 2008 | 08875467.6        | ABB Technology AG  | A DC cable for high voltages                                 |
| Japan                        | Granted                    | 15 May 2015 | 5746042          | 2012-512511        | 17 Dec 2008 | 08875467.6        | ABB Technology AG  | A DC cable for high voltages                                 |
| Netherlands                  | Granted                    | 25 Feb 2015 | 2380177          | 2380177            | 17 Dec 2008 | 08875467.6        | ABB Technology AG  | A DC cable for high voltages                                 |
| Norway                       | Granted                    | 25 Feb 2015 | 2380177          | 2380177            | 17 Dec 2008 | 08875467.6        | ABB Technology AG  | A DC cable for high voltages                                 |
| Sweden                       | Granted                    | 25 Feb 2015 | 2380177          | 2380177            | 17 Dec 2008 | 08875467.6        | ABB Technology AG  | A DC cable for high voltages                                 |
| United States Of America     | Granted                    | 14 Jan 2014 | 8,629,351        | US-2011-0278041-A1 | 17 Dec 2008 | 137163.445        | ABB Technology AG  | Cable joint for optical fibre composite electric power cable |
| Brazil                       | Pending                    |             |                  | P0919019-8         | 29 Apr 2009 | P0919019-8        | ABB Technology AG  | Cable joint for optical fibre composite electric power cable |
| China                        | Granted                    | 04 Mar 2015 | ZL200980132683.3 | CN102132186        | 29 Apr 2009 | 200980132683.3    | ABB Technology AG  | Cable joint for optical fibre composite electric power cable |
| European Procedure (Patents) | Pending                    |             |                  | 2321685            | 29 Apr 2009 | 09779386.3        | ABB Technology AG  | Cable joint for optical fibre composite electric power cable |
| India                        | Pending                    |             |                  | 1057/CHENP/2011    | 29 Apr 2009 | 1057/CHENP/2011   | ABB Technology AG  | Cable joint for optical fibre composite electric power cable |
| United States Of America     | Granted                    | 18 Mar 2014 | 8,676,020        | US-2012-0033928-A1 | 29 Apr 2009 | 137057.884        | ABB Technology AG  | Cable joint for optical fibre composite electric power cable |
| China                        | Granted                    | 23 Sep 2015 | ZL2010800278623  | CN102474090A       | 30 Jun 2010 | 201080027862.3    | ABB Technology AG  | A JOINT FOR A SUBMARINE CABLE                                |
| Germany                      | Granted                    | 15 Oct 2014 | 2449641          | 2449641            | 30 Jun 2010 | 10726985.4        | ABB Technology AG  | A JOINT FOR A SUBMARINE CABLE                                |
| Finland                      | Granted                    | 15 Oct 2014 | 2449641          | 2449641            | 30 Jun 2010 | 10726985.4        | ABB Technology AG  | A JOINT FOR A SUBMARINE CABLE                                |
| France                       | Granted                    | 15 Oct 2014 | 2449641          | 2449641            | 30 Jun 2010 | 10726985.4        | ABB Technology AG  | A JOINT FOR A SUBMARINE CABLE                                |
| United Kingdom               | Granted                    | 15 Oct 2014 | 2449641          | 2449641            | 30 Jun 2010 | 10726985.4        | ABB Technology AG  | A JOINT FOR A SUBMARINE CABLE                                |
| Italy                        | Granted                    | 15 Oct 2014 | 2449641          | 2449641            | 30 Jun 2010 | 10726985.4        | ABB Technology AG  | A JOINT FOR A SUBMARINE CABLE                                |
| Norway                       | Granted                    | 15 Oct 2014 | 2449641          | 2449641            | 30 Jun 2010 | 10726985.4        | ABB Technology AG  | A JOINT FOR A SUBMARINE CABLE                                |
| Sweden                       | Granted                    | 15 Oct 2014 | 2449641          | 2449641            | 30 Jun 2010 | 10726985.4        | ABB Technology AG  | A JOINT FOR A SUBMARINE CABLE                                |
| United States Of America     | Granted                    | 13 Aug 2013 | 8,507,795        | US-2012-0097446-A1 | 30 Jun 2010 | 137242.504        | ABB Technology AG  | A HIGH VOLTAGE DIRECT CURRENT CABLE TERMINATION              |
| Canada                       | Grant                      | 05 Jul 2016 | 2,799,592        |                    | 21 May 2010 | 2,799,592         | ABB RESEARCH LTD   | APPARATUS                                                    |
| China                        | Granted                    | 17 Feb 2016 | ZL2010800669185  | CN 102906954 A     | 21 May 2010 | 201080066918.6    | ABB RESEARCH LTD   | A HIGH VOLTAGE DIRECT CURRENT CABLE TERMINATION              |
| Germany                      | Granted                    | 25 Mar 2015 | 2572424          | 2572424            | 21 May 2010 | 10723560.8        | ABB RESEARCH LTD   | A HIGH VOLTAGE DIRECT CURRENT CABLE TERMINATION              |
| France                       | Granted                    | 25 Mar 2015 | 2572424          | 2572424            | 21 May 2010 | 10723560.8        | ABB RESEARCH LTD   | A HIGH VOLTAGE DIRECT CURRENT CABLE TERMINATION              |
| United Kingdom               | Granted                    | 25 Mar 2015 | 2572424          | 2572424            | 21 May 2010 | 10723560.8        | ABB RESEARCH LTD   | A HIGH VOLTAGE DIRECT CURRENT CABLE TERMINATION              |
| Italy                        | Granted                    | 25 Mar 2015 | 2572424          | 2572424            | 21 May 2010 | 10723560.8        | ABB RESEARCH LTD   | A HIGH VOLTAGE DIRECT CURRENT CABLE TERMINATION              |
| Netherlands                  | Granted                    | 25 Mar 2015 | 2572424          | 2572424            | 21 May 2010 | 10723560.8        | ABB RESEARCH LTD   | A HIGH VOLTAGE DIRECT CURRENT CABLE TERMINATION              |
| Norway                       | Granted                    | 25 Mar 2015 | 2572424          | 2572424            | 21 May 2010 | 10723560.8        | ABB RESEARCH LTD   | A HIGH VOLTAGE DIRECT CURRENT CABLE TERMINATION              |
| Sweden                       | Granted                    | 25 Mar 2015 | 2572424          | 2572424            | 21 May 2010 | 10723560.8        | ABB RESEARCH LTD   | A HIGH VOLTAGE DIRECT CURRENT CABLE TERMINATION              |
| United States Of America     | Granted                    | 17 Dec 2013 | 8,609,987        | US-2013-0081844-A1 | 21 May 2010 | 137683.945        | ABB RESEARCH LTD   | A HIGH VOLTAGE DIRECT CURRENT CABLE TERMINATION              |
| International Procedure      | Publication of Application |             |                  | 2016/101988        | 22 Dec 2014 | PCT/EP2014/079075 | ABB Technology AG  | Composite Formulations for DC Insulation                     |
| Canada                       | Grant                      | 19 Jul 2016 | 2,799,594        |                    | 21 May 2010 | 2,799,594         | ABB RESEARCH LTD   | A HIGH VOLTAGE DIRECT CURRENT CABLE TERMINATION              |
| China                        | Granted                    | 23 Sep 2015 | ZL2010800669190  | CN 102906955 A     | 21 May 2010 | 201080066919.0    | ABB RESEARCH LTD   | A HIGH VOLTAGE DIRECT CURRENT CABLE TERMINATION              |

ABB

| Country                      | Status  | Grant Date  | Grant Number      | Publication Number | Filing Date | Filing Number    | Applicants (List)  | English Title                                                                                   |
|------------------------------|---------|-------------|-------------------|--------------------|-------------|------------------|--------------------|-------------------------------------------------------------------------------------------------|
| European Procedure (Patents) | Pending |             |                   | 2572423            | 21 May 2010 | 10720297.0       | ABB RESEARCH LTD   | A HIGH VOLTAGE DIRECT CURRENT CABLE TERMINATION APPARATUS                                       |
| United States Of America     | Granted | 03 Sep 2013 | 8,525,025         | US-2013-0078836-A1 | 21 May 2010 | 13/679,501       | ABB RESEARCH LTD   | A HIGH VOLTAGE DIRECT CURRENT CABLE TERMINATION APPARATUS                                       |
| Canada                       | Grant   | 05 Jul 2016 | 2,799,601         |                    | 21 May 2010 | 2,799,601        | ABB RESEARCH LTD   | A HIGH VOLTAGE DIRECT CURRENT CABLE TERMINATION APPARATUS                                       |
| China                        | Granted | 13 Apr 2016 | ZL201010800669218 | CN 102904953 A     | 21 May 2010 | 201080066921.8   | ABB RESEARCH LTD   | A HIGH VOLTAGE DIRECT CURRENT CABLE TERMINATION APPARATUS                                       |
| European Procedure (Patents) | Pending |             |                   | 2572421            | 21 May 2010 | 10720426.5       | ABB RESEARCH LTD   | A HIGH VOLTAGE DIRECT CURRENT CABLE TERMINATION APPARATUS                                       |
| United States Of America     | Granted | 03 Feb 2015 | 8,946,552         | US-2013-0075124-A1 | 21 May 2010 | 13/663,718       | ABB RESEARCH LTD   | A HIGH VOLTAGE DIRECT CURRENT CABLE TERMINATION APPARATUS                                       |
| Canada                       | Pending |             |                   |                    | 21 May 2010 | 2,799,770        | ABB RESEARCH LTD   | A HIGH VOLTAGE DIRECT CURRENT CABLE TERMINATION APPARATUS                                       |
| China                        | Grant   | 06 Jul 2016 | ZL 2010800669203  | CN 103038965       | 21 May 2010 | 201080066920.3   | ABB RESEARCH LTD   | A HIGH VOLTAGE DIRECT CURRENT CABLE TERMINATION APPARATUS                                       |
| European Procedure (Patents) | Pending |             |                   | 2572422            | 21 May 2010 | 10723976.6       | ABB RESEARCH LTD   | A HIGH VOLTAGE DIRECT CURRENT CABLE TERMINATION APPARATUS                                       |
| United States Of America     | Granted | 17 Jun 2014 | 8,754,329         | US-2013-0081851-A1 | 21 May 2010 | 13/683,643       | ABB RESEARCH LTD   | A HIGH VOLTAGE DIRECT CURRENT CABLE TERMINATION APPARATUS                                       |
| Germany                      | Granted | 31 Dec 2014 | 2559124           | 2559124            | 15 Apr 2010 | 10713668.1       | ABB Technology AG  | DEVICE AND METHOD FOR MACHINING AN ELECTRICAL CABLE                                             |
| Finland                      | Granted | 31 Dec 2014 | 2559124           | 2559124            | 15 Apr 2010 | 10713668.1       | ABB Technology AG  | DEVICE AND METHOD FOR MACHINING AN ELECTRICAL CABLE                                             |
| France                       | Granted | 31 Dec 2014 | 2559124           | 2559124            | 15 Apr 2010 | 10713668.1       | ABB Technology AG  | DEVICE AND METHOD FOR MACHINING AN ELECTRICAL CABLE                                             |
| United Kingdom               | Granted | 31 Dec 2014 | 2559124           | 2559124            | 15 Apr 2010 | 10713668.1       | ABB Technology AG  | DEVICE AND METHOD FOR MACHINING AN ELECTRICAL CABLE                                             |
| Italy                        | Granted | 31 Dec 2014 | 2559124           | 2559124            | 15 Apr 2010 | 10713668.1       | ABB Technology AG  | DEVICE AND METHOD FOR MACHINING AN ELECTRICAL CABLE                                             |
| Norway                       | Granted | 31 Dec 2014 | 2559124           | 2559124            | 15 Apr 2010 | 10713668.1       | ABB Technology AG  | DEVICE AND METHOD FOR MACHINING AN ELECTRICAL CABLE                                             |
| Sweden                       | Granted | 31 Dec 2014 | 2559124           | 2559124            | 15 Apr 2010 | 10713668.1       | ABB Technology AG  | DEVICE AND METHOD FOR MACHINING AN ELECTRICAL CABLE                                             |
| United States Of America     | Granted | 21 Jan 2014 | 8632284           | US-2013-0032011-A1 | 15 Apr 2010 | 13/649,833       | ABB Technology AG  | DEVICE AND METHOD FOR MACHINING AN ELECTRICAL CABLE                                             |
| Canada                       | Granted | 25 Aug 2015 | 2,821,796         |                    | 15 Dec 2010 | 2,821,796        | ABB Technology AG  | High voltage electric cable                                                                     |
| China                        | Granted | 01 Jul 2015 | ZL201080070677.2  | CN103262177A       | 15 Dec 2010 | 201080070677.2   | ABB Technology AG  | High voltage electric cable                                                                     |
| France                       | Granted | 25 Feb 2015 | 2652754           | 2652754            | 15 Dec 2010 | 10795319.2       | ABB Technology AG  | High voltage electric cable                                                                     |
| United Kingdom               | Granted | 25 Feb 2015 | 2652754           | 2652754            | 15 Dec 2010 | 10795319.2       | ABB Technology AG  | High voltage electric cable                                                                     |
| Japan                        | Granted | 09 Jan 2015 | 5674961           | 2014-504325        | 15 Dec 2010 | 2013-543541      | ABB Technology AG  | High voltage electric cable                                                                     |
| United States Of America     | Granted | 30 Sep 2014 | 8,847,069         | US-2013-0259866    | 15 Dec 2010 | 13/612,951       | ABB Technology AG  | High voltage electric cable                                                                     |
| Canada                       | Granted | 05 Apr 2016 | 2,856,751         |                    | 25 Nov 2011 | 2,856,751        | ABB RESEARCH LTD   | A thickness controlled laminated insulation layer for a direct current (DC) transmission system |
| China                        | Pending |             |                   | 2011800750591      | 25 Nov 2011 | 2011800750591    | ABB RESEARCH LTD   | A thickness controlled laminated insulation layer for a direct current (DC) transmission system |
| India                        | Pending |             |                   | 46777/CHENP/2014 A | 25 Nov 2011 | 46777/CHENP/2014 | ABB RESEARCH LTD   | A thickness controlled laminated insulation layer for a direct current (DC) transmission system |
| Italy                        | Grant   | 18 Nov 2015 | 2783373           | 2783373            | 25 Nov 2011 | 11788444.5       | ABB RESEARCH LTD   | A thickness controlled laminated insulation layer for a direct current (DC) transmission system |
| Norway                       | Granted | 18 Nov 2015 | 2783373           | 2783373            | 25 Nov 2011 | 11788444.5       | ABB RESEARCH LTD   | A thickness controlled laminated insulation layer for a direct current (DC) transmission system |
| Sweden                       | Granted | 18 Nov 2015 | 2783373           | 2783373            | 25 Nov 2011 | 11788444.5       | ABB RESEARCH LTD   | A thickness controlled laminated insulation layer for a direct current (DC) transmission system |
| United States Of America     | Granted | 08 Sep 2015 | 9,129,721         | US-2014-0251654-A1 | 25 Nov 2011 | 14/282,430       | ABB RESEARCH LTD   | A thickness controlled laminated insulation layer for a direct current (DC) transmission system |
| China                        | Pending |             |                   | CN104220884A       | 27 Mar 2012 | 2012800717564    | ABB Technology Ltd | Method for determining an electrical property of cable insulation                               |
| European Procedure (Patents) | Pending |             |                   | 2831606            | 27 Mar 2012 | 12717219.5       | ABB Technology Ltd | Method for determining an electrical property of cable insulation                               |

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| Country                         | Status  | Grant Date  | Grant Number      | Publication Number | Filing Date | Filing Number    | Applicants (List)  | English Title                                                                                          |
|---------------------------------|---------|-------------|-------------------|--------------------|-------------|------------------|--------------------|--------------------------------------------------------------------------------------------------------|
| India                           | Pending |             |                   | 7043/CHENP/2014    | 27 Mar 2012 | 7043/CHENP/2014  | ABB Technology Ltd | Method for determining an electrical property of cable                                                 |
| United States Of America        | Grant   | 01 Nov 2016 | 9,482,715         | US-2015-0015273-A1 | 27 Mar 2012 | 14/500,009       | ABB Technology Ltd | Insulation                                                                                             |
| Canada                          | Grant   | 26 Jan 2016 | 2,865,235         |                    | 05 Feb 2013 | 2,865,235        | ABB Technology Ltd | A joint including two sections of a power cable and a method for joining two sections of a power cable |
| China                           | Pending |             |                   | CN104145388 A      | 05 Feb 2013 | 2013800115206    | ABB Technology Ltd | A joint including two sections of a power cable and a method for joining two sections of a power cable |
| Germany                         | Grant   | 03 Feb 2016 | 2820732           | 2820732            | 05 Feb 2013 | 13703767.7       | ABB Technology Ltd | A joint including two sections of a power cable and a method for joining two sections of a power cable |
| Finland                         | Grant   | 03 Feb 2016 | 2820732           | 2820732            | 05 Feb 2013 | 13703767.7       | ABB Technology Ltd | A joint including two sections of a power cable and a method for joining two sections of a power cable |
| France                          | Grant   | 03 Feb 2016 | 2820732           | 2820732            | 05 Feb 2013 | 13703767.7       | ABB Technology Ltd | A joint including two sections of a power cable and a method for joining two sections of a power cable |
| United Kingdom                  | Grant   | 03 Feb 2016 | 2820732           | 2820732            | 05 Feb 2013 | 13703767.7       | ABB Technology Ltd | A joint including two sections of a power cable and a method for joining two sections of a power cable |
| India                           | Pending |             |                   | 7096/CHENP/2014    | 05 Feb 2013 | 7096/CHENP/2014  | ABB Technology Ltd | A joint including two sections of a power cable and a method for joining two sections of a power cable |
| Italy                           | Grant   | 03 Feb 2016 | 2820732           | 2820732            | 05 Feb 2013 | 13703767.7       | ABB Technology Ltd | A joint including two sections of a power cable and a method for joining two sections of a power cable |
| Netherlands                     | Grant   | 03 Feb 2016 | 2820732           | 2820732            | 05 Feb 2013 | 13703767.7       | ABB Technology Ltd | A joint including two sections of a power cable and a method for joining two sections of a power cable |
| Norway                          | Grant   | 03 Feb 2016 | 2820732           | 2820732            | 05 Feb 2013 | 13703767.7       | ABB Technology Ltd | A joint including two sections of a power cable and a method for joining two sections of a power cable |
| Sweden                          | Grant   | 03 Feb 2016 | SE2820732T3       | 2820732            | 05 Feb 2013 | 13703767.7       | ABB Technology Ltd | A joint including two sections of a power cable and a method for joining two sections of a power cable |
| United States Of America        | Grant   | 15 Sep 2015 | 9,136,040         | US-2014-036716-A1  | 05 Feb 2013 | 14/471,624       | ABB Technology Ltd | A joint including two sections of a power cable and a method for joining two sections of a power cable |
| Brazil                          | Pending |             |                   |                    | 21 Jun 2012 | BR112014029226-4 | ABB Technology Ltd | AN APPARATUS AND A METHOD FOR JOINING A FIRST AND A SECOND OPTICAL FIBRE OF A COMPOSITE CABLE          |
| Canada                          | Grant   | 24 May 2016 | 2,877,305         |                    | 21 Jun 2012 | 2,877,305        | ABB Technology Ltd | AN APPARATUS AND A METHOD FOR JOINING A FIRST AND A SECOND OPTICAL FIBRE OF A COMPOSITE CABLE          |
| China                           | Grant   | 17 Aug 2016 | ZL2012800736989   | CN104350407A       | 21 Jun 2012 | 201280073698.9   | ABB Technology Ltd | AN APPARATUS AND A METHOD FOR JOINING A FIRST AND A SECOND OPTICAL FIBRE OF A COMPOSITE CABLE          |
| European Procedure (Patents)    | Pending |             |                   | 2864829            | 21 Jun 2012 | 12729588.4       | ABB Technology Ltd | AN APPARATUS AND A METHOD FOR JOINING A FIRST AND A SECOND OPTICAL FIBRE OF A COMPOSITE CABLE          |
| India                           | Pending |             |                   | 259/CHENP/2015     | 21 Jun 2012 | 259/CHENP/2015   | ABB Technology Ltd | AN APPARATUS AND A METHOD FOR JOINING A FIRST AND A SECOND OPTICAL FIBRE OF A COMPOSITE CABLE          |
| Japan                           | Grant   | 04 Dec 2015 | 5847359           | 2015-521755        | 21 Jun 2012 | 2015-517619      | ABB Technology Ltd | AN APPARATUS AND A METHOD FOR JOINING A FIRST AND A SECOND OPTICAL FIBRE OF A COMPOSITE CABLE          |
| South Korea / Republic of Korea | Grant   | 10 Jun 2015 | 1529456           |                    | 21 Jun 2012 | 2014-7033975     | ABB Technology Ltd | AN APPARATUS AND A METHOD FOR JOINING A FIRST AND A SECOND OPTICAL FIBRE OF A COMPOSITE CABLE          |
| United States Of America        | Grant   | 20 Oct 2015 | 9,164,252         | US-2015-0125116-A1 | 21 Jun 2012 | 14/400,018       | ABB Technology Ltd | AN APPARATUS AND A METHOD FOR JOINING A FIRST AND A SECOND OPTICAL FIBRE OF A COMPOSITE CABLE          |
| Australia                       | Grant   | 11 Feb 2016 | 2012396396        |                    | 11 Dec 2012 | 2012396396       | ABB Technology Ltd | A METHOD AND AN APPARATUS FOR HEAT TREATMENT OF AN ELECTRIC POWER CABLE                                |
| Canada                          | Grant   | 02 Feb 2016 | 2,892,675         |                    | 11 Dec 2012 | 2,892,675        | ABB Technology Ltd | A METHOD AND AN APPARATUS FOR HEAT TREATMENT OF AN ELECTRIC POWER CABLE                                |
| China                           | Grant   | 19 Oct 2016 | ZL201280077639.9  | 104969306          | 11 Dec 2012 | 201280077639.9   | ABB Schweiz AG     | A METHOD AND AN APPARATUS FOR HEAT TREATMENT OF AN ELECTRIC POWER CABLE                                |
| Germany                         | Grant   | 30 Nov 2016 | 60 2012 026 130.7 | 2932511            | 11 Dec 2012 | EPI2813778.3     | ABB Schweiz AG     | A METHOD AND AN APPARATUS FOR HEAT TREATMENT OF AN ELECTRIC POWER CABLE                                |

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| Country                         | Status        | Grant Date  | Grant Number      | Publication Number | Filing Date | Filing Number   | Applicants (List)  | English Title                                                                                 |
|---------------------------------|---------------|-------------|-------------------|--------------------|-------------|-----------------|--------------------|-----------------------------------------------------------------------------------------------|
| European Procedure (Patents)    | Expired/Grant | 30 Nov 2016 | 2932511           | 2932511            | 11 Dec 2012 | EP12813778.3    | ABB Schweiz AG     | A METHOD AND AN APPARATUS FOR HEAT TREATMENT OF AN ELECTRIC POWER CABLE                       |
| Finland                         | Grant         | 30 Nov 2016 | 2932511           | 2932511            | 11 Dec 2012 | EP12813778.3    | ABB Schweiz AG     | A METHOD AND AN APPARATUS FOR HEAT TREATMENT OF AN ELECTRIC POWER CABLE                       |
| France                          | Grant         | 30 Nov 2016 | 2932511           | 2932511            | 11 Dec 2012 | EP12813778.3    | ABB Schweiz AG     | A METHOD AND AN APPARATUS FOR HEAT TREATMENT OF AN ELECTRIC POWER CABLE                       |
| United Kingdom                  | Grant         | 30 Nov 2016 | 2932511           | 2932511            | 11 Dec 2012 | EP12813778.3    | ABB Schweiz AG     | A METHOD AND AN APPARATUS FOR HEAT TREATMENT OF AN ELECTRIC POWER CABLE                       |
| Greece                          | Grant         | 30 Nov 2016 | 2932511           | 2932511            | 11 Dec 2012 | EP12813778.3    | ABB Schweiz AG     | A METHOD AND AN APPARATUS FOR HEAT TREATMENT OF AN ELECTRIC POWER CABLE                       |
| India                           | Abd           |             |                   | 3970/CHENP/2015    | 11 Dec 2012 | EP12813778.3    | ABB Technology Ltd | A METHOD AND AN APPARATUS FOR HEAT TREATMENT OF AN ELECTRIC POWER CABLE                       |
| Italy                           | Grant         | 30 Nov 2016 | 2932511           | 2932511            | 11 Dec 2012 | EP12813778.3    | ABB Schweiz AG     | A METHOD AND AN APPARATUS FOR HEAT TREATMENT OF AN ELECTRIC POWER CABLE                       |
| Japan                           | Granted       | 02 Dec 2016 | 6049157           | 2016-503942        | 11 Dec 2012 | 2015-546864     | ABB Technology Ltd | A METHOD AND AN APPARATUS FOR HEAT TREATMENT OF AN ELECTRIC POWER CABLE                       |
| South Korea / Republic of Korea | Granted       | 28 Jan 2016 | 1591636           |                    | 11 Dec 2012 | 2015-7014937    | ABB Technology Ltd | A METHOD AND AN APPARATUS FOR HEAT TREATMENT OF AN ELECTRIC POWER CABLE                       |
| Netherlands                     | Granted       | 30 Nov 2016 | 2932511           | 2932511            | 11 Dec 2012 | EP12813778.3    | ABB Schweiz AG     | A METHOD AND AN APPARATUS FOR HEAT TREATMENT OF AN ELECTRIC POWER CABLE                       |
| Norway                          | Granted       | 30 Nov 2016 | 2932511           | 2932511            | 11 Dec 2012 | EP12813778.3    | ABB Schweiz AG     | A METHOD AND AN APPARATUS FOR HEAT TREATMENT OF AN ELECTRIC POWER CABLE                       |
| Sweden                          | Granted       | 30 Nov 2016 | 2932511           | 2932511            | 11 Dec 2012 | EP12813778.3    | ABB Schweiz AG     | A METHOD AND AN APPARATUS FOR HEAT TREATMENT OF AN ELECTRIC POWER CABLE                       |
| United States Of America        | Pending       |             |                   | US-2015-0332815-A1 | 11 Dec 2012 | 14/435,821      | ABB Technology Ltd | A METHOD AND AN APPARATUS FOR HEAT TREATMENT OF AN ELECTRIC POWER CABLE                       |
| Canada                          | Granted       | 18 Aug 2015 | 2,884,629         |                    | 14 Sep 2012 | 2,884,629       | ABB RESEARCH LTD   | A radial water barrier and a dynamic high voltage submarine cable for deep water applications |
| China                           | Grant         | 15 Jun 2016 | ZL201200075805.1  | 104737241          | 14 Sep 2012 | 201280075805.1  | ABB RESEARCH LTD   | A radial water barrier and a dynamic high voltage submarine cable for deep water applications |
| Germany                         | Grant         | 09 Nov 2016 | 602012025183.2    | 2896053            | 14 Sep 2012 | 12761727.2      | ABB RESEARCH LTD   | A radial water barrier and a dynamic high voltage submarine cable for deep water applications |
| European Procedure (Patents)    | Expired/Grant | 09 Nov 2016 | 2896053           | 2896053            | 14 Sep 2012 | 12761727.2      | ABB RESEARCH LTD   | A radial water barrier and a dynamic high voltage submarine cable for deep water applications |
| Finland                         | Grant         | 09 Nov 2016 | 2896053           | 2896053            | 14 Sep 2012 | 12761727.2      | ABB RESEARCH LTD   | A radial water barrier and a dynamic high voltage submarine cable for deep water applications |
| France                          | Grant         | 09 Nov 2016 | 2896053           | 2896053            | 14 Sep 2012 | 12761727.2      | ABB RESEARCH LTD   | A radial water barrier and a dynamic high voltage submarine cable for deep water applications |
| United Kingdom                  | Grant         | 09 Nov 2016 | 2896053           | 2896053            | 14 Sep 2012 | 12761727.2      | ABB RESEARCH LTD   | A radial water barrier and a dynamic high voltage submarine cable for deep water applications |
| Greece                          | Grant         | 09 Nov 2016 | 2896053           | 2896053            | 14 Sep 2012 | 12761727.2      | ABB RESEARCH LTD   | A radial water barrier and a dynamic high voltage submarine cable for deep water applications |
| India                           | Pending       |             |                   | 1992/CHENP/2015    | 14 Sep 2012 | 1992/CHENP/2015 | ABB RESEARCH LTD   | A radial water barrier and a dynamic high voltage submarine cable for deep water applications |
| Italy                           | Grant         | 09 Nov 2016 | 2896053           | 2896053            | 14 Sep 2012 | 12761727.2      | ABB RESEARCH LTD   | A radial water barrier and a dynamic high voltage submarine cable for deep water applications |
| Norway                          | Grant         | 09 Nov 2016 | 2896053           | 2896053            | 14 Sep 2012 | 12761727.2      | ABB RESEARCH LTD   | A radial water barrier and a dynamic high voltage submarine cable for deep water applications |
| Sweden                          | Grant         | 09 Nov 2016 | 2896053           | 2896053            | 14 Sep 2012 | 12761727.2      | ABB RESEARCH LTD   | A radial water barrier and a dynamic high voltage submarine cable for deep water applications |
| United States Of America        | Granted       | 27 Oct 2015 | 9,171,659         | US-2015-0248951-A1 | 14 Sep 2012 | 14/419,789      | ABB RESEARCH LTD   | A radial water barrier and a dynamic high voltage submarine cable for deep water applications |
| Germany                         | Grant         | 14 Sep 2016 | 60 2012 022 983.7 | 2920239            | 15 Nov 2012 | EP12784286.2    | ABB RESEARCH LTD   | Chemically cross-linked polyethylene used for electrical insulation                           |
| European Procedure (Patents)    | Expired/Grant | 14 Sep 2016 | 2920239           | 2920239            | 15 Nov 2012 | EP12784286.2    | ABB RESEARCH LTD   | Chemically cross-linked polyethylene used for electrical insulation                           |
| France                          | Grant         | 14 Sep 2016 | 2920239           | 2920239            | 15 Nov 2012 | EP12784286.2    | ABB RESEARCH LTD   | Chemically cross-linked polyethylene used for electrical insulation                           |
| United Kingdom                  | Grant         | 14 Sep 2016 | 2920239           | 2920239            | 15 Nov 2012 | EP12784286.2    | ABB RESEARCH LTD   | Chemically cross-linked polyethylene used for electrical insulation                           |

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| Country                      | Status      | Grant Date  | Grant Number | Publication Number | Filing Date | Filing Number     | Applicants (List)  | English Title                                                                             |
|------------------------------|-------------|-------------|--------------|--------------------|-------------|-------------------|--------------------|-------------------------------------------------------------------------------------------|
| Australia                    | Grant       | 29 Jul 2016 | 2013376427   |                    | 31 Jan 2013 | 2013376427        | ABB Technology Ltd | METHOD IN THE MANUFACTURING OF AN INSULATED ELECTRIC HIGH VOLTAGE DC TERMINATION OR JOINT |
| Canada                       | Pending     |             |              |                    | 31 Jan 2013 | 2,898,837         | ABB Technology Ltd | METHOD IN THE MANUFACTURING OF AN INSULATED ELECTRIC HIGH VOLTAGE DC TERMINATION OR JOINT |
| China                        | Pending     |             |              | 105247628          | 31 Jan 2013 | 201380072055.7    | ABB Technology Ltd | METHOD IN THE MANUFACTURING OF AN INSULATED ELECTRIC HIGH VOLTAGE DC TERMINATION OR JOINT |
| European Procedure (Patents) | Pending     |             |              | 2951842            | 31 Jan 2013 | 13704032.5        | ABB Technology Ltd | METHOD IN THE MANUFACTURING OF AN INSULATED ELECTRIC HIGH VOLTAGE DC TERMINATION OR JOINT |
| India                        | Pending     |             |              | 5147/CHENP/2015    | 31 Jan 2013 | 5147/CHENP/2015   | ABB Technology Ltd | METHOD IN THE MANUFACTURING OF AN INSULATED ELECTRIC HIGH VOLTAGE DC TERMINATION OR JOINT |
| Japan                        | Pending     |             |              | 2016-511918        | 31 Jan 2013 | 2015-555594       | ABB Technology Ltd | METHOD IN THE MANUFACTURING OF AN INSULATED ELECTRIC HIGH VOLTAGE DC TERMINATION OR JOINT |
| South Korea / Republic of    | Pending     |             |              |                    | 31 Jan 2013 | 2015-7022615      | ABB Technology Ltd | METHOD IN THE MANUFACTURING OF AN INSULATED ELECTRIC HIGH VOLTAGE DC TERMINATION OR JOINT |
| United States Of America     | Pending     |             |              | US-2015-0318675-A1 | 31 Jan 2013 | 14/649,131        | ABB Technology Ltd | METHOD IN THE MANUFACTURING OF AN INSULATED ELECTRIC HIGH VOLTAGE DC TERMINATION OR JOINT |
| China                        | Pending     |             |              | 105531773          | 05 Apr 2013 | 201380075377.7    | ABB Technology Ltd | METHOD IN THE MANUFACTURING OF AN INSULATED ELECTRIC HIGH VOLTAGE DC TERMINATION OR JOINT |
| European Procedure (Patents) | To be Grant | 14 Dec 2016 | 2981976      | 2981976            | 05 Apr 2013 | 13716257.4        | ABB Schweiz AG     | MIXED SOLID INSULATION FOR A TRANSMISSION SYSTEM                                          |
| United Kingdom               | To be Grant | 14 Dec 2016 | 2981976      | 2981976            | 05 Apr 2013 | 13716257.4        | ABB Schweiz AG     | MIXED SOLID INSULATION FOR A TRANSMISSION SYSTEM                                          |
| India                        | Pending     |             |              | 6776/CHENP/2015 A  | 05 Apr 2013 | 13716257.4        | ABB Technology Ltd | MIXED SOLID INSULATION FOR A TRANSMISSION SYSTEM                                          |
| Italy                        | To be Grant | 14 Dec 2016 | 2981976      | 2016-519396        | 05 Apr 2013 | 2016-505714       | ABB Schweiz AG     | MIXED SOLID INSULATION FOR A TRANSMISSION SYSTEM                                          |
| Japan                        | Abd         |             |              |                    | 05 Apr 2013 | 2015-7031261      | ABB Technology Ltd | MIXED SOLID INSULATION FOR A TRANSMISSION SYSTEM                                          |
| South Korea / Republic of    | Granted     | 09 Mar 2016 | 1603879      |                    | 05 Apr 2013 | 13716257.4        | ABB Schweiz AG     | MIXED SOLID INSULATION FOR A TRANSMISSION SYSTEM                                          |
| Korea                        | To be Grant | 14 Dec 2016 | 2981976      | 2981976            | 05 Apr 2013 | 13716257.4        | ABB Schweiz AG     | MIXED SOLID INSULATION FOR A TRANSMISSION SYSTEM                                          |
| Norway                       | To be Grant | 14 Dec 2016 | 2981976      | 2981976            | 05 Apr 2013 | 13716257.4        | ABB Schweiz AG     | MIXED SOLID INSULATION FOR A TRANSMISSION SYSTEM                                          |
| Sweden                       | Pending     |             |              | US-2016-0049218-A1 | 05 Apr 2013 | 14/779,489        | ABB Technology Ltd | MIXED SOLID INSULATION FOR A TRANSMISSION SYSTEM                                          |
| United States Of America     | Pending     |             |              | 3033390            | 12 Aug 2013 | 13748020.8        | ABB Technology Ltd | Thermoplastic blend formulations for cable insulation                                     |
| European Procedure (Patents) | Pending     |             |              |                    | 12 Aug 2013 | 201380078880.8    | ABB Technology Ltd | Thermoplastic blend formulations for cable insulation                                     |
| China                        | Pending     |             |              | 105512209          | 12 Aug 2013 | 13752602.6        | ABB Technology Ltd | Thermoplastic blend formulations for cable insulation                                     |
| European Procedure (Patents) | Pending     |             |              | 3033391            | 12 Aug 2013 | 201647007821      | ABB Technology Ltd | Thermoplastic blend formulations for cable insulation                                     |
| India                        | Pending     |             |              | 201647007821       | 12 Aug 2013 | 2016-524561       | ABB Technology Ltd | Thermoplastic blend formulations for cable insulation                                     |
| Japan                        | Pending     |             |              | 2016-531970        | 12 Aug 2013 | 2016-7006473      | ABB Technology Ltd | Thermoplastic blend formulations for cable insulation                                     |
| South Korea / Republic of    | Pending     |             |              |                    | 12 Aug 2013 | 14/911,674        | ABB Technology Ltd | Thermoplastic blend formulations for cable insulation                                     |
| Korea                        | Pending     |             |              | US-2016-0194489-A1 | 12 Aug 2013 | PCT/EP2013/056790 | ABB Technology Ltd | Thermoplastic blend formulations for cable insulation                                     |
| United States Of America     | Pending     |             |              | WO2015/022004      | 12 Aug 2013 | 201380077597.3    | ABB Technology Ltd | A power cable assembly device and a power cable provided with such a device               |
| International Procedure      | Pending     |             |              | 105474063          | 19 Jun 2013 |                   | ABB Technology Ltd | A power cable assembly device and a power cable provided with such a device               |
| China                        | Pending     |             |              | 3011374            | 19 Jun 2013 | 13729756.0        | ABB Technology Ltd | A power cable assembly device and a power cable provided with such a device               |
| European Procedure (Patents) | Pending     |             |              |                    | 19 Jun 2013 | 14/787,183        | ABB Technology Ltd | A power cable assembly device and a power cable provided with such a device               |
| United States Of America     | Grant       | 22 Nov 2016 | 9,502,157    | US-2016-0111185-A1 | 19 Jun 2013 | 201380077640.6    | ABB Technology Ltd | A TOOL FOR OPENING AN EXTRUDED PROFILED BODY OF A POWER CORD ASSEMBLY DEVICE              |
| China                        | Pending     |             |              | 105452924          | 19 Jun 2013 | 13732116.2        | ABB Technology Ltd | A TOOL FOR OPENING AN EXTRUDED PROFILED BODY OF A POWER CORD ASSEMBLY DEVICE              |
| European Procedure (Patents) | Pending     |             |              | 3011376            | 19 Jun 2013 | 14/786,629        | ABB Technology Ltd | A TOOL FOR OPENING AN EXTRUDED PROFILED BODY OF A POWER CORD ASSEMBLY DEVICE              |
| United States Of America     | Granted     | 24 May 2016 | 9,348,107    | US-2016-0085043-A1 | 19 Jun 2013 | 14/786,629        | ABB Technology Ltd | A TOOL FOR OPENING AN EXTRUDED PROFILED BODY OF A POWER CORD ASSEMBLY DEVICE              |
| China                        | Pending     |             |              | CN105940462 A      | 19 Aug 2014 | 14752868.1        | ABB Technology Ltd | AN ELECTRICAL HV TRANSMISSION POWER CABLE                                                 |
| European Procedure (Patents) | Pending     |             |              | 3084777            | 19 Aug 2014 | 14752868.1        | ABB Technology Ltd | AN ELECTRICAL HV TRANSMISSION POWER CABLE                                                 |
| United States Of America     | Pending     |             |              | US-2016-0332129-A1 | 19 Aug 2014 | 15/106,011        | ABB Technology Ltd | AN ELECTRICAL HV TRANSMISSION POWER CABLE                                                 |
| International Procedure      | Expiry      |             |              | WO2015/090643      | 19 Aug 2014 | PCT/EP2014/067668 | ABB Technology Ltd | AN ELECTRICAL HV TRANSMISSION POWER CABLE                                                 |

| Country                         | Status  | Grant Date  | Grant Number | Publication Number | Filing Date | Filing Number     | Applicants (List)  | English Title                                                                                     |
|---------------------------------|---------|-------------|--------------|--------------------|-------------|-------------------|--------------------|---------------------------------------------------------------------------------------------------|
| China                           | Pending |             |              | 105693798          | 19 Jun 2013 | 20138007622.8     | ABB Technology Ltd | A power cable assembly device and a power cable provided with such a device                       |
| European Procedure (Patents)    | Pending |             |              | 3011375            | 19 Jun 2013 | 13729757.8        | ABB Technology Ltd | A power cable assembly device and a power cable provided with such a device                       |
| United States Of America        | Abd     |             |              | US-2016-0070080-A1 | 19 Jun 2013 | 14785.451         | ABB Technology Ltd | A power cable assembly device and a power cable provided with such a device                       |
| China                           | Pending |             |              | CN105518952A       | 17 Sep 2013 | 201380079297.9    | ABB Technology Ltd | Tool and method for extracting wires from a cable                                                 |
| European Procedure (Patents)    | Pending |             |              | 3047552            | 17 Sep 2013 | 13765987.6        | ABB Technology Ltd | Tool and method for extracting wires from a cable                                                 |
| United States Of America        | Grant   | 22 Nov 2016 | 9,502,869    | US-2016-0204583    | 17 Sep 2013 | 14/913,526        | ABB Technology Ltd | Tool and method for extracting wires from a cable                                                 |
| Canada                          | Pending |             |              |                    | 21 Nov 2013 | 2,931,078         | ABB Technology Ltd | Bundle of cables; a method of laying cables and use of a securing means                           |
| European Procedure (Patents)    | Pending |             |              | 3072193            | 21 Nov 2013 | 13794896.4        | ABB Technology Ltd | Bundle of cables; a method of laying cables and use of a securing means                           |
| United States Of America        | Pending |             |              | US-2016-0254653-A1 | 21 Nov 2013 | 15/027,416        | ABB Technology Ltd | Bundle of cables; a method of laying cables and use of a securing means                           |
| Australia                       | Pending |             |              |                    | 21 Jan 2014 | 2014378717        | ABB Technology Ltd | A POWER CABLE ASSEMBLY DEVICE AND A POWER CABLE PROVIDED WITH SUCH DEVICE                         |
| European Procedure (Patents)    | Pending |             |              | 3097445            | 21 Jan 2014 | 14701059.3        | ABB Technology Ltd | A POWER CABLE ASSEMBLY DEVICE AND A POWER CABLE PROVIDED WITH SUCH DEVICE                         |
| Japan                           | Pending |             |              |                    | 21 Jan 2014 | 2016-564383       | ABB Technology Ltd | A POWER CABLE ASSEMBLY DEVICE AND A POWER CABLE PROVIDED WITH SUCH DEVICE                         |
| South Korea / Republic of Korea | Pending |             |              |                    | 21 Jan 2014 | 2016-7021772      | ABB Technology Ltd | A POWER CABLE ASSEMBLY DEVICE AND A POWER CABLE PROVIDED WITH SUCH DEVICE                         |
| United States Of America        | Pending |             |              | US-2016-0320579-A1 | 21 Jan 2014 | 15/108,723        | ABB Technology Ltd | A POWER CABLE ASSEMBLY DEVICE AND A POWER CABLE PROVIDED WITH SUCH DEVICE                         |
| Australia                       | Pending |             |              |                    | 19 Dec 2013 | 2013407859        | ABB Technology Ltd | AN ARRANGEMENT FOR A DYNAMIC HIGH VOLTAGE SUBSEA CABLE AND A DYNAMIC HIGH VOLTAGE SUBSEA CABLE    |
| Canada                          | Pending |             |              |                    | 19 Dec 2013 | 2,932,466         | ABB Technology Ltd | AN ARRANGEMENT FOR A DYNAMIC HIGH VOLTAGE SUBSEA CABLE AND A DYNAMIC HIGH VOLTAGE SUBSEA CABLE    |
| European Procedure (Patents)    | Pending |             |              | 3084779            | 19 Dec 2013 | 13814532.1        | ABB Technology Ltd | AN ARRANGEMENT FOR A DYNAMIC HIGH VOLTAGE SUBSEA CABLE AND A DYNAMIC HIGH VOLTAGE SUBSEA CABLE    |
| United States Of America        | Abd     |             |              | US-2016-0217887-A1 | 19 Dec 2013 | 15/026,526        | ABB Technology Ltd | AN ARRANGEMENT FOR A DYNAMIC HIGH VOLTAGE SUBSEA CABLE AND A DYNAMIC HIGH VOLTAGE SUBSEA CABLE    |
| Australia                       | Pending |             |              |                    | 19 Feb 2014 | 2014383641        | ABB Schweiz AG     | POWER CABLE TERMINATION DEVICE FOR GAS-INSULATED SWITCHGEAR                                       |
| Canada                          | Pending |             |              |                    | 19 Feb 2014 | 2,940,072         | ABB Schweiz AG     | POWER CABLE TERMINATION DEVICE FOR GAS-INSULATED SWITCHGEAR                                       |
| China                           | Pending |             |              | CN106030947A       | 19 Feb 2014 | 201480075911.9    | ABB Schweiz AG     | POWER CABLE TERMINATION DEVICE FOR GAS-INSULATED SWITCHGEAR                                       |
| European Procedure (Patents)    | Pending |             |              | 3108551            | 19 Feb 2014 | 14705201.3        | ABB Schweiz AG     | POWER CABLE TERMINATION DEVICE FOR GAS-INSULATED SWITCHGEAR                                       |
| India                           | Pending |             |              | 201647031559 A     | 19 Feb 2014 | 201647031559      | ABB Schweiz AG     | POWER CABLE TERMINATION DEVICE FOR GAS-INSULATED SWITCHGEAR                                       |
| Japan                           | Pending |             |              |                    | 19 Feb 2014 | 2016-551747       | ABB Schweiz AG     | POWER CABLE TERMINATION DEVICE FOR GAS-INSULATED SWITCHGEAR                                       |
| South Korea / Republic of Korea | Pending |             |              |                    | 19 Feb 2014 | 2016-7025746      | ABB Schweiz AG     | POWER CABLE TERMINATION DEVICE FOR GAS-INSULATED SWITCHGEAR                                       |
| United States Of America        | Pending |             |              |                    | 19 Feb 2014 | 15/120,059        | ABB Schweiz AG     | POWER CABLE TERMINATION DEVICE FOR GAS-INSULATED SWITCHGEAR                                       |
| International Procedure         | Expiry  |             |              | WO2015/124180      | 19 Feb 2014 | PCT/EP2014/053240 | ABB Schweiz AG     | POWER CABLE TERMINATION DEVICE FOR GAS-INSULATED SWITCHGEAR                                       |
| European Procedure (Patents)    | Pending |             |              | 3108552            | 19 Feb 2014 | 14705196.5        | ABB Schweiz AG     | METHOD OF ASSEMBLING A HANG-OFF DEVICE WITH A CABLE, A HANG-OFF DEVICE AND A HANG-OFF ARRANGEMENT |

| Country                      | Status  | Grant Date | Grant Number | Publication Number | Filing Date | Filing Number     | Applicants (List)  | English Title                                                                                                                 |
|------------------------------|---------|------------|--------------|--------------------|-------------|-------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------|
| International Procedure      | Expiry  |            |              | WO2015/124179      | 15 Feb 2014 | PCT/EP2014/055228 | ABB Schweiz AG     | METHOD OF ASSEMBLING A HANG-OFF DEVICE WITH A CABLE, A HANG-OFF DEVICE AND A HANG-OFF ARRANGEMENT                             |
| International Procedure      | Abd     |            |              | WO2015/158367      | 15 Apr 2014 | PCT/EP2014/057596 | ABB Technology Ltd | A METHOD FOR A SUBSEA POWER CABLE INSTALLATION PROCEDURE                                                                      |
| Brazil                       | Pending |            |              |                    | 09 Apr 2014 | BR112016012286-0  | ABB Technology Ltd | POWER CABLE FILLER DEVICE AND POWER CABLE COMPRISING THE SAME                                                                 |
| Canada                       | Pending |            |              |                    | 09 Apr 2014 | 2,536,319         | ABB Technology Ltd | POWER CABLE FILLER DEVICE AND POWER CABLE COMPRISING THE SAME                                                                 |
| European Procedure (Patents) | Pending |            | 3057445      |                    | 09 Apr 2014 | 14715935.4        | ABB Technology Ltd | POWER CABLE FILLER DEVICE AND POWER CABLE COMPRISING THE SAME                                                                 |
| Japan                        | Pending |            |              |                    | 09 Apr 2014 | 2016-564384       | ABB Technology Ltd | POWER CABLE FILLER DEVICE AND POWER CABLE COMPRISING THE SAME                                                                 |
| South Korea / Republic of    | Pending |            |              |                    | 09 Apr 2014 | 2016-7016949      | ABB Technology Ltd | POWER CABLE FILLER DEVICE AND POWER CABLE COMPRISING THE SAME                                                                 |
| United States Of America     | Pending |            |              |                    | 09 Apr 2014 | 15/039,843        | ABB Technology Ltd | POWER CABLE FILLER DEVICE AND POWER CABLE COMPRISING THE SAME                                                                 |
| Australia                    | Pending |            |              | US-2016-0379737-A1 | 25 Apr 2014 | 2014391862        | ABB Schweiz AG     | BEND STIFFENER WITH BEND INDICATION                                                                                           |
| European Procedure (Patents) | Pending |            |              |                    | 25 Apr 2014 | 14720950.6        | ABB Schweiz AG     | BEND STIFFENER WITH BEND INDICATION                                                                                           |
| United States Of America     | Pending |            |              |                    | 25 Apr 2014 | 15/300,575        | ABB Schweiz AG     | BEND STIFFENER WITH BEND INDICATION                                                                                           |
| International Procedure      | Expiry  |            |              | WO2015/161894      | 25 Apr 2014 | PCT/EP2014/058508 | ABB Schweiz AG     | AN OPTICAL FIBER CABLE END ADAPTER, A CABLE CONNECTION ASSEMBLY AND A METHOD FOR OBTAINING A CABLE CONNECTION                 |
| European Procedure (Patents) | Pending |            |              |                    | 09 May 2014 | 14723070.0        | ABB Schweiz AG     | AN OPTICAL FIBER CABLE END ADAPTER, A CABLE CONNECTION ASSEMBLY AND A METHOD FOR OBTAINING A CABLE CONNECTION                 |
| International Procedure      | Expiry  |            |              | WO 2015/169388     | 09 May 2014 | PCT/EP2014/059540 | ABB Schweiz AG     | CONNECTION ASSEMBLY AND A METHOD FOR OBTAINING A CABLE CONNECTION                                                             |
| International Procedure      | Abd     |            |              | WO2015/135605      | 21 Nov 2014 | PCT/EP2014/075219 | ABB Schweiz AG     | POWER CABLE AND METHOD OF MANUFACTURING THE SAME                                                                              |
| China                        | Pending |            |              |                    | 30 Jun 2014 | 201480079801.X    | ABB Schweiz AG     | POWER TRANSMISSION CABLE                                                                                                      |
| European Procedure (Patents) | Pending |            |              |                    | 30 Jun 2014 | 14735906.1        | ABB Schweiz AG     | POWER TRANSMISSION CABLE                                                                                                      |
| Japan                        | Pending |            |              |                    | 30 Jun 2014 | 2016-564030       | ABB Schweiz AG     | POWER TRANSMISSION CABLE                                                                                                      |
| South Korea / Republic of    | Pending |            |              |                    | 30 Jun 2014 | 2016-7034349      | ABB Schweiz AG     | POWER TRANSMISSION CABLE                                                                                                      |
| United States Of America     | Pending |            |              |                    | 30 Jun 2014 | 15/306,736        | ABB Schweiz AG     | POWER TRANSMISSION CABLE                                                                                                      |
| International Procedure      | Expiry  |            |              | WO2016/000735      | 30 Jun 2014 | PCT/EP2014/063819 | ABB Schweiz AG     | Electric field control device for high power cable and method for manufacturing thereof                                       |
| China                        | Pending |            |              |                    | 22 Aug 2014 | 201480079045.0    | ABB Schweiz AG     | One-piece electric stress relief device consisting of a fieldgrading adapter and an insulating stresscone vulcanized together |
| European Procedure (Patents) | Pending |            |              |                    | 22 Aug 2014 | 14756031.2        | ABB Schweiz AG     | One-piece electric stress relief device consisting of a fieldgrading adapter and an insulating stresscone vulcanized together |
| Japan                        | Pending |            |              |                    | 22 Aug 2014 | 2016-567092       | ABB Schweiz AG     | One-piece electric stress relief device consisting of a fieldgrading adapter and an insulating stresscone vulcanized together |
| South Korea / Republic of    | Pending |            |              |                    | 22 Aug 2014 | 2016-7035231      | ABB Schweiz AG     | One-piece electric stress relief device consisting of a fieldgrading adapter and an insulating stresscone vulcanized together |
| United States Of America     | Pending |            |              |                    | 22 Aug 2014 | 15/310,168        | ABB Schweiz AG     | One-piece electric stress relief device consisting of a fieldgrading adapter and an insulating stresscone vulcanized together |
| International Procedure      | Expiry  |            |              | WO2016/026538      | 22 Aug 2014 | PCT/EP2014/067930 | ABB Schweiz AG     | One-piece electric stress relief device consisting of a fieldgrading adapter and an insulating stresscone vulcanized together |
| International Procedure      | Pending |            |              | WO2016/034213      | 03 Sep 2014 | PCT/EP2014/068669 | ABB Schweiz AG     | AN INSULATED HIGH VOLTAGE CABLE TERMINATION DEVICE, A HOUSING AND A METHOD FOR STRAIGHTENING A LENGTH OF CABLE IN THE HOUSING |
| International Procedure      | Pending |            |              | WO2016/082860      | 25 Nov 2014 | PCT/EP2014/075488 | ABB Schweiz AG     | JOINTED POWER CABLE AND METHOD OF MANUFACTURING THE SAME                                                                      |

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| Country                  | Status    | Grant Date  | Grant Number | Publication Number          | Filing Date | Filing Number     | Applicants (List)  | English Title                                                                                                                                                     |
|--------------------------|-----------|-------------|--------------|-----------------------------|-------------|-------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| International Procedure  | Pending   |             |              | WO2016/131478               | 18 Feb 2015 | PCT/EP2015/053349 | ABB Schweiz AG     | ELECTRIC POWER CABLE AND PROCESS FOR THE PRODUCTION OF ELECTRIC POWER CABLE                                                                                       |
| International Procedure  | Pending   |             |              | WO2016/131965               | 19 Feb 2015 | PCT/EP2015/053567 | ABB Schweiz AG     | WELDING SLEEVE FOR ARMORED CABLES                                                                                                                                 |
| International Procedure  | Abd       |             |              | WO2015/197686               | 24 Jun 2015 | PCT/EP2015/064245 | ABB Schweiz AG     | AN INSULATION SYSTEM FOR HV CABLE JOINT, A METHOD FOR FORMING A JOINT AND A CABLE JOINT                                                                           |
| International Procedure  | Pending   |             |              | WO2016/162076               | 10 Apr 2015 | PCT/EP2015/057795 | ABB Schweiz AG     | DYNAMIC SUBMARINE POWER CABLE                                                                                                                                     |
| International Procedure  | Pending   |             |              | WO 2016/192278              | 02 Jun 2015 | PCT/EP2015/062282 | ABB Schweiz AG     | A RIGID JOINT ASSEMBLY                                                                                                                                            |
| International Procedure  | Pending   |             |              | WO 2016/192779              | 02 Jun 2015 | PCT/EP2015/062284 | ABB Schweiz AG     | A RIGID JOINT ASSEMBLY                                                                                                                                            |
| International Procedure  | Pending   |             |              | WO2016/206715               | 23 Jun 2015 | PCT/EP2015/064014 | ABB Schweiz AG     | ELECTRIC POWER CABLE AND A PROCESS FOR THE PRODUCTION OF THE POWER CABLE                                                                                          |
| International Procedure  | Pending   |             |              |                             | 06 Jul 2015 | PCT/EP2015/065356 | ABB Schweiz AG     | A METHOD OF BUILDING AN INSULATION SYSTEM AROUND A NAKED CONDUCTOR SECTION OF A POWER CABLE                                                                       |
| International Procedure  | Pending   |             |              |                             | 03 Jul 2015 | PCT/EP2015/065216 | ABB Schweiz AG     | NEXT LEVEL NANOCOMPOSITES FOR ELECTRICAL INSULATION                                                                                                               |
| International Procedure  | Pending   |             |              | WO2017/000996               | 30 Jun 2015 | PCT/EP2015/064886 | ABB Schweiz AG     | DEVICE AND METHOD FOR MEASURING CAPACITANCE OF POWER CABLES                                                                                                       |
| International Procedure  | Pending   |             |              |                             | 03 Jul 2015 | PCT/EP2015/065211 | ABB Schweiz AG     | A TEMPORARY LOAD SECURING DEVICE FOR AN ARMORED HIGH VOLTAGE CABLE AND A METHOD FOR FACILITATING INSTALLATION-RELATED OPERATIONS OF AN ARMORED HIGH VOLTAGE CABLE |
| International Procedure  | Pending   |             |              |                             | 19 Aug 2015 | PCT/EP2015/068985 | ABB Schweiz AG     | CONDUCTOR FOR A POWER TRANSMISSION CABLE AND A PROCESS FOR THE PRODUCTION OF THE CONDUCTOR                                                                        |
| International Procedure  | Pending   |             |              |                             | 31 Aug 2015 | PCT/EP2015/069819 | ABB Schweiz AG     | POWER TRANSMISSION CABLE AND PROCESS FOR THE PRODUCTION OF POWER TRANSMISSION CABLE                                                                               |
| International Procedure  | Pending   |             |              |                             | 19 Nov 2015 | PCT/EP2015/077072 | ABB Schweiz AG     | ELECTRIC POWER CABLE AND PROCESS FOR THE PRODUCTION OF ELECTRIC POWER CABLE                                                                                       |
| International Procedure  | Pending   |             |              |                             | 23 Nov 2015 | PCT/EP2015/077333 | ABB Schweiz AG     | FLEXIBLE VULCANIZED JOINT BETWEEN TWO ELECTRIC POWER CABLES AND PROCESS FOR PRODUCING SAID JOINT                                                                  |
| International Procedure  | Pending   |             |              |                             | 17 Dec 2015 | PCT/EP2015/080247 | ABB Schweiz AG     | ELECTRIC POWER CABLE AND PROCESS FOR THE PRODUCTION OF ELECTRIC POWER CABLE                                                                                       |
| United States Of America | Pending   |             |              | US 2016-016348 A1           | 08 Dec 2014 | 14/563,625        | ABB Technology AG  | SYSTEMS AND METHODS FOR APPLYING METALLIC LAMINATES TO CABLES                                                                                                     |
| International Procedure  | Pending   |             |              | WO 2016/094187              | 03 Dec 2015 | PCT/US2015/063736 | ABB Technology AG  | SYSTEMS AND METHODS FOR APPLYING METALLIC LAMINATES TO CABLES                                                                                                     |
| United States Of America | Pending   |             |              | US-2016-0035943             | 09 Dec 2014 | 14/564,301        | ABB Technology AG  | HYBRID CONDUCTOR WITH CIRCUMFERENTIAL LAYERS                                                                                                                      |
| United States Of America | Pending   |             |              | US-2015-0035942-A1          | 22 Aug 2014 | 14/466,498        | ABB Technology AG  | HYBRID CONDUCTOR                                                                                                                                                  |
| International Procedure  | Pending   |             |              | WO2016094201                | 04 Dec 2015 | PCT/US2015/063863 | ABB Technology AG  | HYBRID CONDUCTOR WITH CIRCUMFERENTIAL CONDUCTING LAYERS                                                                                                           |
| United States Of America | Pending   |             |              | US 2016-0164238 A1          | 08 Dec 2014 | 14/563,082        | ABB Technology AG  | SYSTEMS AND METHODS FOR AUTOMATED SPLICING AND TERMINATING LOW, MEDIUM, HIGH AND EXTRA HIGH VOLTAGE CABLES                                                        |
| International Procedure  | Pending   |             |              | WO2016/094184               | 03 Dec 2015 | PCT/US2015/63696  | ABB Technology AG  | SYSTEMS AND METHODS FOR AUTOMATED SPLICING AND TERMINATING LOW, MEDIUM, HIGH AND EXTRA HIGH VOLTAGE CABLES                                                        |
| International Procedure  | Pending   |             |              |                             | 17 Mar 2016 | PCT/EP2016/055796 | ABB Schweiz AG     | POWER TRANSMISSION CABLE AND A PROCESS TO MANUFACTURE THE CABLE                                                                                                   |
| International Procedure  | Pending   |             |              |                             | 06 Apr 2016 | PCT/EP2016/057524 | ABB Schweiz AG     | A PROTECTIVE CASING FOR A HIGH VOLTAGE CABLE                                                                                                                      |
| Sweden                   | Abd/Filed |             |              | SE1651576A1                 | 01 Dec 2016 | 1651576-9         | ABB Schweiz AG     | IMPREGNATION FLUID FOR MASS-IMPREGNATED POWER CABLES AND METHOD OF PREVENTING FILTRATION EFFECT IN INSULATION SYSTEM BY USING EP/P TAPE                           |
| International Procedure  | Pending   |             |              |                             | 13 May 2016 | PCT/EP2016/060878 | ABB Schweiz AG     | JOINT, TERMINATION OR CROSS-CONNECTION ARRANGEMENT FOR A CABLE AND METHOD FOR PROVIDING A JOINT, TERMINATION OR CROSS-CONNECTION ARRANGEMENT                      |
| International Procedure  | Pending   |             |              |                             | 26 May 2016 | PCT/EP2016/061898 | ABB Schweiz AG     | A RIGID JOINT ASSEMBLY                                                                                                                                            |
| Sweden                   | Abd/Filed |             |              | WO 2016/193115<br>1600224-8 | 18 Jul 2016 | 1600224-8         | ABB Schweiz AG     | Electric power cable and a process for the production of the power cable                                                                                          |
| Sweden                   | Abd/Filed |             |              | 1600316-2                   | 10 Nov 2016 | 1600316-2         | ABB Schweiz AG     | COMPOSITE FILLER PROFILE                                                                                                                                          |
| Canada                   | Granted   | 16 Apr 2015 | 155603       |                             | 10 Mar 2014 | 155603            | ABB Technology Ltd | Tool for opening wires in cables                                                                                                                                  |

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| Country                  | Status  | Grant Date  | Grant Number      | Publication Number | Filing Date | Filing Number  | Applicants (List)  | English Title                    |
|--------------------------|---------|-------------|-------------------|--------------------|-------------|----------------|--------------------|----------------------------------|
| China                    | Granted | 20 May 2015 | ZL 201430064530.3 |                    | 24 Mar 2014 | 201430064530.3 | ABB Technology Ltd | Tool for opening wires in cables |
| European Union           | Pending |             |                   |                    | 25 Sep 2013 | 002315325-0001 | ABB Technology Ltd | Tool for opening wires in cables |
| United States Of America | Granted | 20 Oct 2015 | D741,124          |                    | 24 Mar 2014 | 297485.847     | ABB Technology Ltd | Tool for opening wires in cables |

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## PATENT

REEL: 047122 FRAME: 0799



## **Schedule 1B: Excluded IP**

This Schedule 1B with all its content shall constitute an integral part of the Agreement.

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| Country                         | Status                     | Grant date  | Grant Number      | Publication Number | PG   | Application Number | Applicants (List)  | Procedure Agent | English Title                                                                                                                                        |
|---------------------------------|----------------------------|-------------|-------------------|--------------------|------|--------------------|--------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Belgium                         | Granted                    | 20 Apr 2013 | 2954603           | 2954603            | 2215 | BR112013013101-5   | ABB Technology Ltd | SEIPSO          | A METHOD FOR PROVIDING AN INSULATED HIGH VOLTAGE POWER CABLE AND A HIGH VOLTAGE POWER CABLE ARRANGEMENT                                              |
| Brazil                          | Pending                    |             |                   |                    |      |                    | ABB Technology Ltd | SEIPSO          | A METHOD FOR PROVIDING AN INSULATED HIGH VOLTAGE POWER CABLE AND A HIGH VOLTAGE POWER CABLE ARRANGEMENT                                              |
| Switzerland                     | Granted                    | 20 Apr 2016 | 2954603           | 2954603            | 2215 |                    | ABB Technology Ltd | SEIPSO          | A METHOD FOR PROVIDING AN INSULATED HIGH VOLTAGE POWER CABLE AND A HIGH VOLTAGE POWER CABLE ARRANGEMENT                                              |
| China                           | Pending                    |             |                   | 105144524          | 2215 |                    | ABB Technology Ltd | SEIPSO          | A METHOD FOR PROVIDING AN INSULATED HIGH VOLTAGE POWER CABLE AND A HIGH VOLTAGE POWER CABLE ARRANGEMENT                                              |
| Germany                         | Granted                    | 20 Apr 2016 | 60 2014 001 587.5 | 2954603            | 2215 |                    | ABB Technology Ltd | SEIPSO          | A METHOD FOR PROVIDING AN INSULATED HIGH VOLTAGE POWER CABLE AND A HIGH VOLTAGE POWER CABLE ARRANGEMENT                                              |
| France                          | Granted                    | 20 Apr 2016 | 2954603           | 2954603            | 2215 |                    | ABB Technology Ltd | SEIPSO          | A METHOD FOR PROVIDING AN INSULATED HIGH VOLTAGE POWER CABLE AND A HIGH VOLTAGE POWER CABLE ARRANGEMENT                                              |
| United Kingdom                  | Granted                    | 20 Apr 2016 | 2954603           | 2954603            | 2215 |                    | ABB Technology Ltd | SEIPSO          | A METHOD FOR PROVIDING AN INSULATED HIGH VOLTAGE POWER CABLE AND A HIGH VOLTAGE POWER CABLE ARRANGEMENT                                              |
| India                           | Pending                    |             |                   |                    | 2215 | 5309(CHENP)2015    | ABB Technology Ltd | SEIPSO          | A METHOD FOR PROVIDING AN INSULATED HIGH VOLTAGE POWER CABLE AND A HIGH VOLTAGE POWER CABLE ARRANGEMENT                                              |
| Italy                           | Granted                    | 20 Apr 2016 | 2954603           | 2954603            | 2215 |                    | ABB Technology Ltd | SEIPSO          | A METHOD FOR PROVIDING AN INSULATED HIGH VOLTAGE POWER CABLE AND A HIGH VOLTAGE POWER CABLE ARRANGEMENT                                              |
| Japan                           | Pending                    | 13 May 2016 | 5533861           |                    | 2215 | 2015-356504        | ABB Technology Ltd | SEIPSO          | A METHOD FOR PROVIDING AN INSULATED HIGH VOLTAGE POWER CABLE AND A HIGH VOLTAGE POWER CABLE ARRANGEMENT                                              |
| South Korea / Republic of Korea | Granted                    | 24 May 2016 | 1625812           |                    | 2215 |                    | ABB Technology Ltd | SEIPSO          | A METHOD FOR PROVIDING AN INSULATED HIGH VOLTAGE POWER CABLE AND A HIGH VOLTAGE POWER CABLE ARRANGEMENT                                              |
| Netherlands                     | Granted                    | 20 Apr 2016 | 2954603           | 2954603            | 2215 |                    | ABB Technology Ltd | SEIPSO          | A METHOD FOR PROVIDING AN INSULATED HIGH VOLTAGE POWER CABLE AND A HIGH VOLTAGE POWER CABLE ARRANGEMENT                                              |
| United States Of America        | Pending                    |             |                   | US-2015-0357804-A1 | 2215 |                    | ABB Technology Ltd | SEIPSO          | A METHOD FOR PROVIDING AN INSULATED HIGH VOLTAGE POWER CABLE AND A HIGH VOLTAGE POWER CABLE ARRANGEMENT                                              |
| International Procedure         | Pending                    |             |                   |                    | 9950 | PCT/EP2015/077924  | ABB Technology Ltd | SEIPSO          | COMPOSITE INSULATION MATERIAL FOR AN ELECTRIC POWER CABLE, PROCESS TO MANUFACTURE A POWER CABLE AND A POWER CABLE CONTAINING THE INSULATION MATERIAL |
| International Procedure         | Publication of application |             |                   |                    | 2215 |                    | ABB Technology AG  | CH              | Bulk power - high voltage transmission line (system)                                                                                                 |
| International Procedure         | Publication of application |             |                   | 2016/012049        | 2215 |                    | ABB Technology AG  | CH              | A flexible tubular electrical insulation line produced by multi-layer extrusion onto a flexible metal hose                                           |

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## Schedule 1B: Excluded IP - Westcoast

| Case Reference  | Filing Number    | Filing Date | City | Filing Type (Code) | Publication Number | Expiry Date | Grant Number    | Grant Date  | Applicant                                   | Current Status             | IP Site | Title                                                                          | In Force (Yes/No) |
|-----------------|------------------|-------------|------|--------------------|--------------------|-------------|-----------------|-------------|---------------------------------------------|----------------------------|---------|--------------------------------------------------------------------------------|-------------------|
| 10779-CN-PCT    | 20080107861.2    | 22 Sep 2008 | CN   | PCT                | CH101802101A       | 22 Sep 2028 | ZL20080107861.2 | 08 Aug 2012 | ABB RESEARCH LTD                            | Grant                      | SE      | Improved Thermal conductivity of SiGel used in Dry Terminations                | Yes               |
| 10279-DE-EPT    | 08004558.0       | 22 Sep 2008 | DE   | EPT                | 2203522            | 22 Sep 2028 | 2203522         | 25 Dec 2013 | ABB RESEARCH LTD                            | Grant                      | SE      | Improved Thermal conductivity of SiGel used in Dry Terminations                | Yes               |
| 10279-RR-EPT    | 08004558.0       | 22 Sep 2008 | PR   | EPT                | 2203522            | 22 Sep 2028 | 2203522         | 25 Dec 2013 | ABB RESEARCH LTD                            | Grant                      | SE      | Improved Thermal conductivity of SiGel used in Dry Terminations                | Yes               |
| 10279-GB-EPT    | 08004558.0       | 22 Sep 2008 | GB   | EPT                | 2203522            | 22 Sep 2028 | 2203522         | 25 Dec 2013 | ABB RESEARCH LTD                            | Grant                      | SE      | Improved Thermal conductivity of SiGel used in Dry Terminations                | Yes               |
| 10279-IN-PCT    | 20080107861.2    | 22 Sep 2008 | IN   | PCT                | 2203522            | 22 Sep 2028 | 2203522         | 25 Dec 2013 | ABB RESEARCH LTD                            | Local filing               | SE      | Improved Thermal conductivity of SiGel used in Dry Terminations                | Yes               |
| 10279-IT-EPT    | 08004558.0       | 22 Sep 2008 | IT   | EPT                | 2203522            | 22 Sep 2028 | 2203522         | 25 Dec 2013 | ABB RESEARCH LTD                            | Grant                      | SE      | Improved Thermal conductivity of SiGel used in Dry Terminations                | Yes               |
| 10279-SE-EPT    | 08004558.0       | 22 Sep 2008 | SE   | EPT                | 2203522            | 22 Sep 2028 | 2203522         | 25 Dec 2013 | ABB RESEARCH LTD                            | Grant                      | SE      | Improved Thermal conductivity of SiGel used in Dry Terminations                | Yes               |
| 10279-US-PCT    | 12127155         | 22 Sep 2008 | US   | PCT                | 2203522            | 22 Sep 2028 | 2203522         | 25 Dec 2013 | ABB RESEARCH LTD                            | Grant                      | SE      | Improved Thermal conductivity of SiGel used in Dry Terminations                | Yes               |
| CN13055-CN-JM   | 20120257382.X    | 28 Jun 2013 | CN   | JM                 | US-2010-0200274-A1 | 28 Jun 2028 | 20120257382.X   | 05 Nov 2013 | ABB Technology AG                           | Grant                      | CN      | Scale marks on joint sleeve surface                                            | Yes               |
| CN13056-CN-JM   | 20120257382.X    | 28 Jun 2013 | CN   | JM                 | CN 203257170 U     | 03 Jul 2023 | 20120257382.X   | 18 Dec 2013 | ABB Technology AG                           | Grant                      | CN      | Fill at the end of a stress cone                                               | Yes               |
| CN13057-CN-JM   | 20120257382.X    | 28 Jun 2013 | CN   | JM                 | CN 203257170 U     | 03 Jul 2023 | 20120257382.X   | 18 Dec 2013 | ABB Technology AG                           | Grant                      | CN      | Spring Contact                                                                 | Yes               |
| CN13058-CN-JM   | 20120257382.X    | 28 Jun 2013 | CN   | JM                 | CN 203257170 U     | 03 Jul 2023 | 20120257382.X   | 18 Dec 2013 | ABB Technology AG                           | Grant                      | CN      | 2-Piece Tail Pipe                                                              | Yes               |
| CN13059-CN-JM   | 20120257382.X    | 28 Jun 2013 | CN   | JM                 | CN 203257170 U     | 03 Jul 2023 | 20120257382.X   | 18 Dec 2013 | ABB Technology AG                           | Grant                      | CN      | HV Cable Joint casing and its waterproof system                                | Yes               |
| CN13060-CN-JM   | 20120257382.X    | 28 Jun 2013 | CN   | JM                 | CN 203257170 U     | 03 Jul 2023 | 20120257382.X   | 18 Dec 2013 | ABB Technology AG                           | Grant                      | CN      | Compression cone contact with installation scale function                      | Yes               |
| CN13061-CN-JM   | 20120257382.X    | 28 Jun 2013 | CN   | JM                 | CN 203257170 U     | 03 Jul 2023 | 20120257382.X   | 18 Dec 2013 | ABB Technology AG                           | Grant                      | CN      | Thermoplastic elastomer MV cable accessories by injection molding process      | Yes               |
| CN13062-CN-JM   | 20120257382.X    | 28 Jun 2013 | CN   | JM                 | CN 203257170 U     | 03 Jul 2023 | 20120257382.X   | 18 Dec 2013 | ABB Technology AG                           | Filing                     | CN      | NONLINEAR RESISTIVITY POLYMER COMPOSITES FILED WITH GRAPHENE OXIDE             | Yes               |
| SE11265-US-PCT  | 14/24,558        | 31 Aug 2012 | US   | PCT                |                    | 31 Aug 2032 |                 |             | SEABBS, USFPI RPI<br>Rensselaer Polytechnic | Local filing               | SE      | Graphene oxide based materials exhibiting conductivity grading characteristics | Yes               |
| SE11570-AU-PCT  | 201306770        | 24 Jun 2013 | AU   | PCT                |                    | 24 Jun 2033 |                 |             | ABB Technology Ltd                          | Local filing               | SE      | Graphene oxide based materials exhibiting conductivity grading characteristics | Yes               |
| SE11570-CN-PCT  | 201306770        | 24 Jun 2013 | CN   | PCT                | CN 103000508 A     | 24 Jun 2033 |                 |             | ABB Technology Ltd                          | Publication of application | SE      | Graphene oxide based materials exhibiting conductivity grading characteristics | Yes               |
| SE11570-EP-EPT  | 1373436.1        | 24 Jun 2013 | EP   | EPT                | 3014630            | 24 Jun 2033 |                 |             | ABB Technology Ltd                          | Publication of application | SE      | Graphene oxide based materials exhibiting conductivity grading characteristics | Yes               |
| SE11570-IN-PCT  | 7821/CHENP2015   | 24 Jun 2013 | IN   | PCT                | 7821/CHENP2015A    | 24 Jun 2033 |                 |             | ABB Technology Ltd                          | Publication of application | SE      | Graphene oxide based materials exhibiting conductivity grading characteristics | Yes               |
| SE11570-RU-PCT  | 2015154985       | 24 Jun 2013 | RU   | PCT                |                    | 24 Jun 2033 |                 |             | ABB Technology Ltd                          | Local filing               | SE      | Graphene oxide based materials exhibiting conductivity grading characteristics | Yes               |
| SE11570-US-PCT  | 14/800391        | 24 Jun 2013 | US   | PCT                | US-2016-0133361-A1 | 24 Jun 2033 |                 |             | ABB Technology Ltd                          | Publication of application | SE      | Graphene oxide based materials exhibiting conductivity grading characteristics | Yes               |
| SE-8-5502-DK-NF |                  |             | DK   | NF                 |                    |             |                 |             | ABB Technology AG                           | Renewal                    | SE      | FILLED SQUARE (device)                                                         | Yes               |
| SE-8-5502-NO-NF |                  |             | NO   | NF                 |                    |             |                 |             | ABB Technology AG                           | Renewal                    | SE      | FILLED SQUARE (device)                                                         | Yes               |
| SE-8-5502-SE-NF |                  |             | SE   | NF                 |                    |             |                 |             | ABB Technology AG                           | Renewal                    | SE      | UNFILLED SQUARE (device)                                                       | Yes               |
| SE-8-5503-SE-NF |                  |             | SE   | NF                 |                    |             |                 |             | ABB Technology AG                           | Renewal                    | SE      | UNFILLED SQUARE (device)                                                       | Yes               |
| CH15120-EP-EPA  | 15186838.1       | 25 Sep 2015 | EP   | EPA                |                    | 25 Sep 2035 |                 |             | ABB Technology AG                           | Filing                     | CH      | High-voltage cable end termination                                             | Yes               |
| CH15120-WO-PCT  | PCT/EP2016072488 | 22 Sep 2016 | WO   | PCT                |                    | 22 Sep 2036 |                 |             | ABB Technology AG                           | Filing                     | CH      | High-voltage cable end termination                                             | Yes               |
| CH15121-EP-EPA  | 15186839.9       | 25 Sep 2015 | EP   | EPA                |                    | 25 Sep 2035 |                 |             | ABB Technology AG                           | Filing                     | CH      | High-voltage cable end termination                                             | Yes               |
| CH15121-WO-PCT  | PCT/EP2016072492 | 22 Sep 2016 | WO   | PCT                |                    | 22 Sep 2036 |                 |             | ABB Technology AG                           | Filing                     | CH      | High-voltage cable end termination                                             | Yes               |

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# Commercial register of canton Aargau

|                       |                        |            |           |                                        |   |
|-----------------------|------------------------|------------|-----------|----------------------------------------|---|
| Identification number | Legal status           | Entry      | Cancelled | Carried from: CH-400.3.008.861-1/b on: | 1 |
| CHE-101.538.426       | Limited or Corporation | 17.01.1990 |           |                                        |   |



All data

| In | Ca | Business name                         | Ref | Legal seat |
|----|----|---------------------------------------|-----|------------|
| 0  |    | <b>ABB Schweiz AG</b>                 | 0   | Baden      |
| 0  |    | (ABB Suisse SA) (ABB Switzerland Ltd) |     |            |

| In | Ca | Share capital (CHF) | Paid in (CHF) | Shares                            | In | Ca | Company address                      |
|----|----|---------------------|---------------|-----------------------------------|----|----|--------------------------------------|
| 0  |    | 55'000'000.00       | 55'000'000.00 | 550'000 Namenaktien zu CHF 100.00 | 0  |    | Brown Boveri Strasse 6<br>5400 Baden |

| In | Ca | Purpose                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | In | Ca | Other addresses                                   |
|----|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|---------------------------------------------------|
| 0  | 12 | Die Gesellschaft bezweckt vorwiegend in der Schweiz die Entwicklung, die Projektierung, die Herstellung, die Installation und den Vertrieb von und den Handel mit Anlagen, Systemen, Maschinen, Apparaten und technischen Erzeugnissen irgendwelcher Art auf dem Gebiet insbesondere der Energie- und Automatisierungstechnik, sowie Erbringung von Dienstleistungen insbesondere in den Bereichen Forschung, Entwicklung, Informationstechnologie, Kommunikation sowie Management- und Geschäftsunterstützung; kann Grundstücke erwerben, Zweigniederlassungen gründen und sich an anderen Gesellschaften beteiligen; kann Finanzierungsgeschäfte tätigen und kann auch für Verpflichtungen ihrer Aktionäre und von verbundenen Gesellschaften Sicherheiten insbesondere in Form von Garantien, Pfändern, Globalzessionen, Sicherungsübereignungen, Sicherungsabtretungen und Schadloshaltungserklärungen stellen. | 0  |    | Fabrikstrasse 3 und 9<br>5600 Lenzburg            |
| 12 |    | Entwicklung, Projektierung, Herstellung, Installation und Vertrieb von sowie Handel mit Anlagen, Systemen, Maschinen, Apparaten und technischen Erzeugnissen irgendwelcher Art auf dem Gebiet insbesondere der Energie- und Automationstechnik, Erbringung von Dienstleistungen insbesondere in den Bereichen Forschung, Entwicklung, Informationstechnologie, Kommunikation sowie Management- und Geschäftsunterstützung, und nimmt die Interessen der ABB Ltd, Zürich, in der Schweiz wahr; kann Grundstücke erwerben, Zweigniederlassungen gründen und sich an anderen Gesellschaften beteiligen; kann Finanzierungsgeschäfte tätigen und kann auch für Verpflichtungen ihrer Aktionäre und von verbundenen Gesellschaften Sicherheiten insbesondere in Form von Garantien, Pfändern, Globalzessionen, Sicherungsübereignungen, Sicherungsabtretungen und Schadloshaltungserklärungen stellen.                   | 0  |    | Austrasse<br>5300 Turgi                           |
|    |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0  |    | Zentralstrasse<br>5242 Birr                       |
|    |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0  | 71 | avenue de Cour<br>1007 Lausanne                   |
|    |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0  | 10 | Fulachstrasse 150<br>8201 Schaffhausen            |
|    |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0  |    | Toro 2<br>Eduard-Imhofstrasse 4<br>8050 Zürich    |
|    |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0  |    | Bahnhof TH 10<br>Jurastrasse 45<br>5430 Wettingen |
|    |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0  | 10 | Schleudergasse<br>5400 Baden                      |
|    |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0  | 26 | Parkstrasse 14/2<br>5313 Klingnau                 |
|    |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0  |    | Fullachstrasse 150<br>8201 Schaffhausen           |
|    |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0  |    | Segelhof<br>5405 Dättwil AG                       |
|    |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0  |    | Badenerstrasse 780<br>8048 Zürich                 |
|    |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0  |    | Brown Boveri-Strasse 5<br>8050 Zürich             |
|    |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0  |    | Badenerstrasse 790<br>8048 Zürich                 |
|    |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0  | 9  | Bahnhofstrasse<br>5300 Turgi                      |
|    |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0  | 10 | Schaffhauserstrasse 418<br>8050 Zürich            |
|    |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0  |    | Via Boschina 5<br>6963 Pregassona                 |
|    |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0  | 22 | Wankdorffeldstrasse 68<br>3014 Bern               |
|    |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0  |    | Herbergstrasse 21<br>9524 Zuzwil SG               |
|    |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 22 |    | Brown Boveri Platz 3<br>5400 Baden                |
|    |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 22 |    | Bruggerstrasse 72<br>5400 Baden                   |

# Commercial register of canton Aargau

|                 |                |       |   |
|-----------------|----------------|-------|---|
| CHE-101.538.426 | ABB Schweiz AG | Baden | 2 |
|-----------------|----------------|-------|---|

All data

| In | Ca | Purpose | In | Ca | Other addresses      |
|----|----|---------|----|----|----------------------|
|    |    |         | 22 |    | Waldeggsstrasse 76   |
|    |    |         | 26 |    | 3097 Liebefeld       |
|    |    |         | 26 |    | Brühlstrasse 50      |
|    |    |         | 26 |    | 5313 Klingnau        |
|    |    |         | 42 |    | Kanalstrasse 12      |
|    |    |         | 42 |    | 5313 Klingnau        |
|    |    |         | 42 |    | Kreuzweg 11          |
|    |    |         | 42 |    | 5400 Baden           |
|    |    |         | 42 |    | Industriestrasse 44a |
|    |    |         | 53 |    | 5314 Kleindöttingen  |
|    |    |         | 53 |    | Industriestrasse 34  |
|    |    |         | 53 |    | 5314 Kleindöttingen  |
|    |    |         | 71 |    | Rue du Grand-Pré 2a  |
|    |    |         | 71 |    | 1007 Lausanne        |
|    |    |         | 72 |    | Aathalstrasse 90     |
|    |    |         | 72 |    | 8610 Uster           |
|    |    |         | 81 |    | Affolternstrasse 44  |
|    |    |         | 81 |    | 8050 Zürich          |

| In | Ca | Remarks                                                                                                                                                                                                                                                                                                 | Ref | Date of the acts |
|----|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------|
| 0  |    | Der von einer bisherigen Registerkarte übertragene Auszug enthält keine vor dem Uebertrag gestrichenen Tatsachen, und auch keine allfälligen frü heren Statutendaten oder Tagebuch- und SHAB-Zitate. Diese können auf der im Feld "Uebertrag von" bezeichneten Handelsregisterkarte eingesehen wer den. | 0   | 10.01.1990       |
| 0  | 69 | Mitteilungen an die Aktionäre erfolgen brieflich:                                                                                                                                                                                                                                                       | 0   | 14.12.1992       |
| 0  |    | Die Übertragbarkeit der Namenaktien ist nach Massgabe der Statuten beschränkt.                                                                                                                                                                                                                          | 0   | 22.12.1993       |
| 0  | 10 | Weiteres Adresse unter der Geschäftsbezeichnung "Full Service": 125, rue Industrielle, 2740 Moutier                                                                                                                                                                                                     | 0   | 28.02.1994       |
| 0  | 10 | Weitere Adresse unter der Geschäftsbezeichnung "Schindler Kransevice": Güterstrasse 105, 4133 Pratteln                                                                                                                                                                                                  | 0   | 15.05.1998       |
| 0  | 10 | Weitere Adresse unter der Geschäftsbezeichnung "Trainingcenter Fördertechnik": Otelfingerstrasse 5, 5430 Wettingen                                                                                                                                                                                      | 0   | 11.12.2001       |
| 69 |    | Die Mitteilungen an die Aktionäre erfolgen per Brief oder E-Mail.                                                                                                                                                                                                                                       | 0   | 12.09.2003       |
|    |    |                                                                                                                                                                                                                                                                                                         | 12  | 04.06.2007       |
|    |    |                                                                                                                                                                                                                                                                                                         | 69  | 20.10.2015       |

| In | Ca | Qualified facts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Ref | Official publication |
|----|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------------------|
| 0  | 12 | Sacheinlage: Fr. 45'000'000.--                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0   | SHAB                 |
| 0  |    | Fusion: Die Gesellschaft übernimmt bei der Kapitalerhöhung vom 28.02.1994 die "ABB Process Automation AG", in Baden, durch Fusion gemäss Art. 748 OR. Aktiven von CHF 158'082'273.92 und Passiven von CHF 134'994'131.75 gehen gemäss Fusionsbilanz per 01.01.1994 durch Universalsukzession auf die Gesellschaft über; der Erhöhungsbetrag wurde entsprechend dem Fusionsvertrag liberiert. Die Aktionäre der übernommenen Gesellschaft erhalten dafür 100'000 voll liberierte Namenaktien zu CHF 100.-- der übernehmenden Gesellschaft. |     |                      |

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All data

| In | Ca | Qualified facts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Ref | Official publication |
|----|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------------------|
| 0  |    | Fusionen: Die Gesellschaft übernimmt auf dem Wege der Fusion gemäss Art. 748 OR und gestützt auf die Fusionsverträge vom 11.12.2001 und Fusionsbilanzen per 31.10.2001 durch Universalsukzession Aktiven von CHF 41'860'902.72 und Passiven von CHF 36'538'013.29 der "ABB Business Services Ltd", in Baden, Aktiven von CHF 14'918'138.43 und Passiven von CHF 12'065'799.83 der "ABB Corporate Research AG", in Baden, Aktiven von CHF 25'307'953.23 und Passiven von CHF 16'324'675.65 der "ABB Low Voltage Power AG", in Lenzburg, Aktiven von CHF 252'443'846.19 und Passiven von CHF 200'596'350.27 der "ABB Power Automation AG", in Baden, Aktiven von CHF 190'666'997.85 und Passiven von CHF 215'265'526.36 der "ABB Semiconductors AG", in Baden, Aktiven von CHF 31'431'583.12 und Passiven von CHF 24'069'918.71 der "ABB Unifer AG", in Birr, Aktiven von CHF 20'347'497.75 und Passiven von CHF 10'996'072.27 der "ABB CMC Carl Maier AG", in Schaffhausen, Aktiven von CHF 11'550'026.73 und Passiven von CHF 8'950'260.28 der "ABB Flexible Automation AG", in Zürich, Aktiven von CHF 505'636'663.03 und Passiven von CHF 386'636'324.92 der "ABB Hochspannungstechnik AG", in Zürich, sowie Aktiven von CHF 31'602'755.33 und Passiven von CHF 21'765'294.26 der "ABB Normelec AG", in Zürich. Da die Aktionäre der übernehmenden Gesellschaft und die Aktionäre der übernommenen Gesellschaften identisch sind, erlöschen die Aktien der übernommenen Gesellschaften und das Aktienkapital der übernehmenden Gesellschaft bleibt unverändert. |     |                      |
| 0  |    | Fusion: Die Gesellschaft übernimmt auf dem Wege der Fusion die "ENTRELEC SWISS SA", in Belfaux. Aktiven von CHF 1'090'521.-- und Passiven von CHF 662'295.-- gehen gemäss Fusionsvertrag per 20.08.2002 und Fusionsbilanz per 01.04.2002 durch Universalsukzession auf die Gesellschaft über. Da die Aktionäre beider Gesellschaften identisch sind, erlöschen diese Aktien und das Grundkapital der übernehmenden Gesellschaft bleibt unverändert.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |                      |
| 0  |    | Fusion: Die Gesellschaft übernimmt auf dem Wege der Fusion gemäss Art. 748 OR die "SKYVA Schweiz AG", in Hägendorf. Aktiven von CHF 11'301'617.-- und Passiven von CHF 10'858'617.-- gehen gemäss Fusionsvertrag vom 28.05.2003 und Fusionsbilanz per 01.01.2003 durch Universalsukzession auf die Gesellschaft über. Da die Aktionäre beider Gesellschaften identisch sind, erlöschen die Aktien der übernommenen Gesellschaft und das Aktienkapital der übernehmenden Gesellschaft bleibt unverändert.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |                      |
| 0  |    | Fusion: Die Gesellschaft übernimmt auf dem Wege der Fusion die ABB New Ventures AG, in Zürich. Aktiven von CHF 6'309'938.93 und Passiven (Fremdkapital) von CHF 6'210'200.49 gehen gemäss Fusionsvertrag vom 20.06.2003 und Fusionsbilanz per 01.01.2003 durch Universalsukzession auf die Gesellschaft über. Da die Aktionäre beider Gesellschaften identisch sind, erlöschen die Aktien der übernommenen Gesellschaft, und das Aktienkapital der der übernehmenden Gesellschaft bleibt unverändert.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |     |                      |
| 0  |    | Fusion: Die Gesellschaft übernimmt die Micafil AG, in Zürich (CHE-107.362.143), gemäss Fusionsvertrag vom 14.06.2004 und Bilanz per 01.01.2004. Aktiven von CHF 22'756'511.99 und Passiven von CHF 20'387'724.58 gehen durch Universalsukzession auf die übernehmende Gesellschaft über. Da die Aktionäre beider Gesellschaften identisch sind, erlöschen die Aktien der übernommenen Gesellschaft, und das Grundkapital der übernehmenden Gesellschaft bleibt unverändert.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |                      |
| 0  |    | Fusion: Übernahme der Aktiven und Passiven der "Levy fils AG", in Basel (CHE-107.731.973), gemäss Fusionsvertrag vom 21.10.2004 und Bilanz per 01.10.2004. Aktiven von CHF 6'422'177.96 und Passiven (Fremdkapital) von CHF 5'988'236.66 gehen auf die übernehmende Gesellschaft über. Da dieselben Aktionäre sämtliche Aktien der an der Fusion beteiligten Gesellschaften halten, findet weder eine Kapitalerhöhung noch eine Aktienzuteilung statt.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |                      |
| 3  |    | Fusion: Übernahme der Aktiven und Passiven der ABB Insurance Brokers AG, in Baden (CHE-106.740.202), gemäss Fusionsvertrag vom 26.01.2006 und Bilanz per 01.01.2006. Aktiven von CHF 1'477'495.01 und Passiven (Fremdkapital) von CHF 1'327'495.01 gehen auf die übernehmende Gesellschaft über. Da die übernehmende Gesellschaft sämtliche Aktien der übertragenden Gesellschaft hält, findet weder eine Kapitalerhöhung noch eine Aktienzuteilung statt.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |     |                      |

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| In | Ca | Qualified facts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Ref | Official publication |
|----|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------------------|
| 39 |    | Fusion: Übernahme der Aktiven und Passiven der Baldor Electric Switzerland AG, in Feuerthalen (CHE-107.923.047) mit einem Aktienkapital von CHF 2'110'000.00 und gesetzlichen Reserven von CHF 768'000.00, gemäss Fusionsvertrag vom 25.04.2012 und Bilanz per 31.12.2011. Aktiven von CHF 419'353.00 und Passiven (Fremdkapital) von CHF 156'538.00 gehen auf die übernehmende Gesellschaft über. Die übernehmende Gesellschaft verfügt gemäss Bestätigung der zugelassenen Revisionsexpertin über frei verwendbares Eigenkapital im Umfang des Kapitalverlustes. Da die übernehmende Gesellschaft sämtliche Aktien der übertragenden Gesellschaft hält, findet weder eine Kapitalerhöhung noch eine Aktienzuteilung statt. |     |                      |
| 54 |    | Fusion: Übernahme der Aktiven und Passiven der ABB Technology Ventures Ltd, in Zürich (CHE-115.379.944), gemäss Fusionsvertrag vom 09.05.2014 / 14.05.2014 und Bilanz per 31.12.2013. Aktiven von CHF 70'205'528.76 und Passiven (Fremdkapital) von CHF 136'382'452.51, d.h. ein Passivenüberschuss von CHF 66'176'923.75, gehen auf die übernehmende Gesellschaft über. Gemäss Bestätigung der zugelassenen Revisionsexpertin liegen Rangrücktritte im Umfang des Kapitalverlustes und der Überschuldung vor. Da dieselben Aktionäre sämtliche Aktien der übertragenden Gesellschaft halten, findet weder eine Kapitalerhöhung noch eine Aktienzuteilung statt.                                                             |     |                      |
| 62 |    | Fusion: Übernahme der Aktiven und Passiven der Newave Energy AG, in Baden (CHE-108.417.999), gemäss Fusionsvertrag vom 19.11.2014 und Bilanz per 31.10.2014. Aktiven von CHF 10'424'141.33 und Passiven (Fremdkapital) von CHF 6'695'242.97 gehen auf die übernehmende Gesellschaft über. Da die übernehmende Gesellschaft sämtliche Aktien der übertragenden Gesellschaft hält, findet weder eine Kapitalerhöhung noch eine Aktienzuteilung statt.                                                                                                                                                                                                                                                                          |     |                      |
| 77 |    | Fusion: Übernahme der Aktiven und Passiven der ABB Technology AG, in Zürich (CHE-102.176.685), gemäss Fusionsvertrag vom 09.05.2016 und Bilanz per 31.12.2015. Aktiven von CHF 702'393'851.68 und Passiven (Fremdkapital) von CHF 1'232'858'587.04, d.h. ein Passivenüberschuss von CHF 530'464'735.36, gehen auf die übernehmende Gesellschaft über. Gemäss Bestätigung der zugelassenen Revisionsexpertin liegen Rangrücktrittserklärungen im Umfang der Unterdeckung und der Überschuldung vor. Da dieselbe Aktionärin sämtliche Aktien der an der Fusion beteiligten Gesellschaften hält, findet weder eine Kapitalerhöhung noch eine Aktienzuteilung statt.                                                             |     |                      |

| Vis | Ref | Journal    | Date       | SOGC | Date SOGC  | Page / Id   | Vis | Ref | Journal | Date       | SOGC | Date SOGC  | Page / Id |
|-----|-----|------------|------------|------|------------|-------------|-----|-----|---------|------------|------|------------|-----------|
| AG  | 0   | (Transfer) |            |      | (Transfer) |             | AG  | 42  | 8901    | 30.08.2012 | 171  | 04.09.2012 | 6833694   |
| AG  | 1   | 8221       | 27.10.2005 | 213  | 02.11.2005 | 1 / 3085354 | AG  | 43  | 11605   | 27.11.2012 | 234  | 30.11.2012 | 6954962   |
| AG  | 2   | 9291       | 07.12.2005 | 242  | 13.12.2005 | 2 / 3146060 | AG  | 44  | 12511   | 20.12.2012 | 251  | 27.12.2012 | 6994936   |
| AG  | 3   | 125        | 05.01.2006 | 7    | 11.01.2006 | 1 / 3188286 | AG  | 45  | 558     | 17.01.2013 | 14   | 22.01.2013 | 7027572   |
| AG  | 4   | 1521       | 03.02.2006 | 28   | 09.02.2006 | 1 / 3235172 | AG  | 46  | 2084    | 26.02.2013 | 42   | 01.03.2013 | 7086558   |
| AG  | 5   | 2613       | 09.03.2006 | 52   | 15.03.2006 | 1 / 3287948 | AG  | 47  | 4415    | 06.05.2013 | 89   | 10.05.2013 | 7183876   |
| AG  | 6   | 3724       | 21.04.2006 | 81   | 27.04.2006 | 1 / 3350592 | AG  | 48  | 5796    | 18.06.2013 | 118  | 21.06.2013 | 930967    |
| AG  | 7   | 4722       | 30.05.2006 | 107  | 06.06.2006 | 1 / 3403014 | AG  | 49  | 8527    | 04.09.2013 | 173  | 09.09.2013 | 1067523   |
| AG  | 8   | 5886       | 10.07.2006 | 135  | 14.07.2006 | 2 / 3466722 | AG  | 50  | 10174   | 28.10.2013 | 211  | 31.10.2013 | 1156647   |
| AG  | 9   | 10896      | 20.12.2006 | 251  | 28.12.2006 | 1 / 3700552 | AG  | 51  | 12385   | 24.12.2013 | 1    | 03.01.2014 | 1264233   |
| AG  | 10  | 3009       | 26.03.2007 | 63   | 30.03.2007 | 1 / 3864982 | AG  | 52  | 1598    | 06.02.2014 | 28   | 11.02.2014 | 1338863   |
| AG  | 11  | 4492       | 11.05.2007 | 95   | 18.05.2007 | 1 / 3935638 | AG  | 53  | 5558    | 02.06.2014 | 107  | 05.06.2014 | 1539341   |
| AG  | 12  | 5969       | 27.06.2007 | 126  | 03.07.2007 | 2 / 4005380 | AG  | 54  | 6686    | 30.06.2014 | 126  | 03.07.2014 | 1592249   |
| AG  | 13  | 7378       | 13.08.2007 | 158  | 17.08.2007 | 1 / 4069862 | AG  | 55  | 7237    | 14.07.2014 | 136  | 17.07.2014 | 1619609   |
| AG  | 14  | 8039       | 31.08.2007 | 172  | 06.09.2007 | 1 / 4098098 | AG  | 56  | 9168    | 16.09.2014 | 181  | 19.09.2014 | 1723819   |
| AG  | 15  | 10951      | 11.12.2007 | 244  | 17.12.2007 | 2 / 4250180 | AG  | 57  | 9464    | 25.09.2014 | 188  | 30.09.2014 | 1741425   |
| AG  | 16  | 1181       | 06.02.2008 | 29   | 12.02.2008 | 1 / 4335624 | AG  | 58  | 10216   | 20.10.2014 | 205  | 23.10.2014 | 1784783   |
| AG  | 17  | 3014       | 10.04.2008 | 73   | 16.04.2008 | 1 / 4432158 | AG  | 59  | 10910   | 07.11.2014 | 219  | 12.11.2014 | 1818307   |
| AG  | 18  | 5367       | 27.06.2008 | 127  | 03.07.2008 | 1 / 4555166 | AG  | 60  | 11865   | 04.12.2014 | 238  | 09.12.2014 | 1868477   |
| AG  | 19  | 6457       | 04.08.2008 | 152  | 08.08.2008 | 1 / 4605178 | AG  | 61  | 16      | 05.01.2015 | 4    | 08.01.2015 | 1917873   |
| AG  | 20  | 6907       | 21.08.2008 | 165  | 27.08.2008 | 1 / 4626234 | AG  | 62  | 879     | 23.01.2015 | 18   | 28.01.2015 | 1956801   |
| AG  | 21  | 413        | 13.01.2009 | 11   | 19.01.2009 | 1 / 4831800 | AG  | 63  | 3957    | 23.04.2015 | 80   | 28.04.2015 | 2122693   |
| AG  | 22  | 3102       | 12.03.2009 | 53   | 18.03.2009 | 1 / 4930756 | AG  | 64  | 4243    | 01.05.2015 | 86   | 06.05.2015 | 2137635   |

# Commercial register of canton Aargau

|                 |                |       |   |
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| Vis | Ref | Journal | Date       | SOGC | Date SOGC  | Page / Id   | Vis | Ref | Journal | Date       | SOGC | Date SOGC  | Page / Id |
|-----|-----|---------|------------|------|------------|-------------|-----|-----|---------|------------|------|------------|-----------|
| AG  | 23  | 4730    | 29.04.2009 | 85   | 05.05.2009 | 1 / 5003400 | AG  | 65  | 5077    | 28.05.2015 | 103  | 02.06.2015 | 2182135   |
| AG  | 24  | 7569    | 10.07.2009 | 135  | 16.07.2009 | 2 / 5142028 | AG  | 66  | 7743    | 17.08.2015 | 160  | 20.08.2015 | / 2330843 |
| AG  | 25  | 10762   | 14.10.2009 | 203  | 20.10.2009 | 1 / 5301954 | AG  | 67  | 8448    | 03.09.2015 | 173  | 08.09.2015 | / 2361993 |
| AG  | 26  | 13837   | 23.12.2009 | 253  | 30.12.2009 | 1 / 5421860 | AG  | 68  | 9551    | 06.10.2015 | 196  | 09.10.2015 | / 2418639 |
| AG  | 27  | 2846    | 04.03.2010 | 48   | 10.03.2010 | 1 / 5534454 | AG  | 69  | 10179   | 26.10.2015 | 210  | 29.10.2015 | / 2453009 |
| AG  | 28  | 8056    | 16.07.2010 | 140  | 22.07.2010 | 2 / 5739264 | AG  | 70  | 10286   | 28.10.2015 | 212  | 02.11.2015 | / 2457599 |
| AG  | 29  | 11127   | 18.10.2010 | 206  | 22.10.2010 | 1 / 5864364 | AG  | 71  | 12391   | 22.12.2015 | 251  | 28.12.2015 | / 2567329 |
| AG  | 30  | 427     | 12.01.2011 | 12   | 18.01.2011 | 2 / 5991242 | AG  | 72  | 1256    | 02.02.2016 | 25   | 05.02.2016 | / 2650403 |
| AG  | 31  | 706     | 20.01.2011 | 18   | 26.01.2011 | 2 / 6003652 | AG  | 73  | 2632    | 10.03.2016 | 52   | 15.03.2016 | / 2724003 |
| AG  | 32  | 1720    | 17.02.2011 | 38   | 23.02.2011 | 1 / 6045740 | AG  | 74  | 3022    | 23.03.2016 | 61   | 30.03.2016 | / 2748993 |
| AG  | 33  | 7324    | 27.07.2011 | 147  | 02.08.2011 | 6280160     | AG  | 75  | 3454    | 06.04.2016 | 69   | 11.04.2016 | / 2771409 |
| AG  | 34  | 10172   | 25.10.2011 | 210  | 28.10.2011 | 6395102     | AG  | 76  | 4844    | 23.05.2016 | 100  | 26.05.2016 | / 2853343 |
| AG  | 35  | 225     | 06.01.2012 | 7    | 11.01.2012 | 6499122     | AG  | 77  | 5642    | 14.06.2016 | 116  | 17.06.2016 | / 2896505 |
| AG  | 36  | 573     | 17.01.2012 | 14   | 20.01.2012 | 6513968     | AG  | 78  | 5733    | 16.06.2016 | 118  | 21.06.2016 | / 2902691 |
| AG  | 37  | 3080    | 07.03.2012 | 50   | 12.03.2012 | 6590392     | AG  | 79  | 6938    | 13.07.2016 | 137  | 18.07.2016 | / 2959005 |
| AG  | 38  | 3862    | 30.03.2012 | 67   | 04.04.2012 | 6625892     | AG  | 80  | 8159    | 22.08.2016 | 164  | 25.08.2016 | / 3021151 |
| AG  | 39  | 5674    | 29.05.2012 | 105  | 01.06.2012 | 6700498     | AG  | 81  | 8482    | 31.08.2016 | 171  | 05.09.2016 | / 3037643 |
| AG  | 40  | 6720    | 26.06.2012 | 125  | 29.06.2012 | 6743398     | AG  | 82  | 9197    | 23.09.2016 | 188  | 28.09.2016 | / 3078335 |
| AG  | 41  | 8462    | 15.08.2012 | 160  | 20.08.2012 | 6815774     | AG  | 83  | 11144   | 22.11.2016 | 230  | 25.11.2016 | / 3184999 |

| In | Mo | Ca | Personal Data                                                             | Function                                | Signature              |
|----|----|----|---------------------------------------------------------------------------|-----------------------------------------|------------------------|
| 0  |    | 18 | Schaumann, Rolf, deutscher Staatsangehöriger, in Hüttikon                 | president of the board of directors     | joint signature at two |
| 0  |    | 3  | Fässler, Dr. Hanspeter, von Urnäsch, in Bergdietikon                      | vicepresident of the board of directors | joint signature at two |
| 0  |    | 2  | Gugolz, Walter, von Erlenbach ZH, in Oberrohrdorf                         | member of the board of directors        | joint signature at two |
| 0  |    | 9m | Merz, Renato, von Brugg, in Mellingen                                     | member of the board of directors        | joint signature at two |
| 0  |    | 22 | Albin, Patrick, von St. Martin, in Bassersdorf                            |                                         | joint signature at two |
| 0  |    | 5m | Baltensperger, Jürg, von Brütten, in Winterthur                           |                                         | joint signature at two |
| 0  |    | 6  | Brand, Ernst, von Rüderswil, in Villmergen                                |                                         | joint signature at two |
| 0  |    | 11 | Grook, Francis Robert, britischer Staatsangehöriger, in Baden             |                                         | joint signature at two |
| 0  |    | 5  | Eschermann, Dr. Bernhard, deutscher Staatsangehöriger, in Untersiggenthal |                                         | joint signature at two |
| 0  |    | 18 | Frei, Barbara, von Sevelen und Lüthern, in Männedorf                      |                                         | joint signature at two |
| 0  |    | 5m | Fux, Darko, von Birr, in Untereinfelden                                   |                                         | joint signature at two |
| 0  |    | 12 | Gisler, Peter, von Bürglen UR, in Untereinfelden                          |                                         | joint signature at two |
| 0  |    | 5m | Guggenbach, Peter, von Zürich, in Kirchdorf AG                            |                                         | joint signature at two |
| 0  |    | 24 | Hagmann, Martin, von Däniken, in Holderbank AG                            |                                         | joint signature at two |
| 0  |    | 6  | Hofbauer, Dr. Werner, österreichischer Staatsangehöriger, in Baden        |                                         | joint signature at two |
| 0  |    | 22 | Hofmann, Eduard, von Matzingen, in Oberrohrdorf                           |                                         | joint signature at two |
| 0  |    | 27 | Hopp, Friedrich, deutscher Staatsangehöriger, in Staufien                 |                                         | joint signature at two |
| 0  |    | 8  | Hörhager, Kurt R., von Spreitenbach, in Wettingen                         |                                         | joint signature at two |
| 0  |    | 5m | Huegin, David, von Oberwil BL, in Baar                                    |                                         | joint signature at two |
| 0  |    | 43 | Husi, Stephan, von Kilchberg ZH und Wangen bei Olten, in Zürich           |                                         | joint signature at two |
| 0  |    | 9  | Imboden, Hans-Armin, von St. Niklaus, in Rüschlikon                       |                                         | joint signature at two |
| 0  |    | 22 | Junesjo, Jon, schwedischer Staatsangehöriger, in Baden                    |                                         | joint signature at two |
| 0  |    | 5m | Küng, Moritz, von Kaltenbach, in Brugg                                    |                                         | joint signature at two |
| 0  |    | 18 | Lanz, Werner, von Walterswil, in Wettingen                                |                                         | joint signature at two |
| 0  |    | 2m | Moor, Yann, von Wislikofen, in Turgi                                      |                                         | joint signature at two |
| 0  |    | 5m | Müntener, Christian, von Sevelen, in Oberengstringen                      |                                         | joint signature at two |
| 0  |    |    | Neeser, Daniel, von Adliswil, in Thalwil                                  |                                         | joint signature at two |



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| CHE-101.538.426 | ABB Schweiz AG | Baden | 6 |
|-----------------|----------------|-------|---|

All data

| In | Mo | Ca  | Personal Data                                                             | Function                         | Signature                    |
|----|----|-----|---------------------------------------------------------------------------|----------------------------------|------------------------------|
| 0  |    | 5m  | Nigg-Bärlocher, Dr. Gabriela Ursula, von Pfäfers und Thal, in Greifensee  |                                  | joint signature at two       |
| 0  |    | 5m  | Pirotta, Reto, von Emmen, in Lenzburg                                     |                                  | joint signature at two       |
| 0  |    | 6m  | Rothenbühler, Adrian, von Oberdorf SO, in Kölliken                        |                                  | joint signature at two       |
| 0  |    | 9   | Schibli, Josef, von Fislisbach, in Birrhard                               |                                  | joint signature at two       |
| 0  |    | 22  | Schultheiss, Ralf Heinz, von Basel, in Zürich                             |                                  | joint signature at two       |
| 0  |    | 34  | Schumacher, Martin, deutscher Staatsangehöriger, in Zürich                |                                  | joint signature at two       |
| 0  |    | 16  | Steck, Dr. Detlef, deutscher Staatsangehöriger, in Zollikon               |                                  | joint signature at two       |
| 0  |    | 13  | Wälchli, Urs, von Obersteckholz, in Aarau                                 |                                  | joint signature at two       |
| 0  |    | 11  | Weibel, Beat, von Jonschwil und Zürich, in Uitikon                        |                                  | joint signature at two       |
| 0  |    |     | Wentzler, Frank, deutscher Staatsangehöriger, in Eschenz                  |                                  | joint signature at two       |
| 0  |    | 28  | Wettstein, Josef Martin, von Remetschwil, in Berikon                      |                                  | joint signature at two       |
| 0  |    | 52  | Widmer, Peter, von Lengnau AG, in Baden                                   |                                  | joint signature at two       |
| 0  |    | 33  | Wirthensohn, Konrad, von Schwyz, in Schwyz                                |                                  | joint signature at two       |
| 0  |    |     | Wüthrich, Max, von Trub, in Risch                                         |                                  | joint signature at two       |
| 0  |    | 5m  | Ingold, Dr. Mathias, deutscher Staatsangehöriger, in Oberengstringen      |                                  | joint agent signature at two |
| 0  |    | 24  | Lüthi, Roger, von Röthenbach im Emmental, in Lengnau BE                   |                                  | joint agent signature at two |
| 0  |    | 28m | Scrugli, Federico, italienischer Staatsangehöriger, in Würenlos           |                                  | joint agent signature at two |
| 0  |    |     | Ernst & Young AG (CHE-491.907.686), in Zürich                             | auditor                          |                              |
| 2  |    | 25m | Moor, Yann, von Wislikofen, in Turgi                                      | member of the board of directors | joint signature at two       |
| 3  |    | 23  | Alenikov, Oleg, russischer Staatsangehöriger, in Baden                    |                                  | joint signature at two       |
| 3  |    | 30m | Rowlands, Jacqueline, britische Staatsangehörige, in Turgi                |                                  | joint signature at two       |
| 4  |    | 21m | Staiblin, Jasmin, deutsche Staatsangehörige, in Ennetbaden                | member of the board of directors | joint signature at two       |
| 4  |    | 18m | Smits, Peter, deutscher Staatsangehöriger, in Wettswil am Albis           | member of the board of directors | joint signature at two       |
| 5  |    | 15  | Baltensperger, Jürg, von Brütten, in Seuzach                              |                                  | joint signature at two       |
| 5  |    | 7   | Fux, Darko, von Birr, in Möriken-Wildegg                                  |                                  | joint signature at two       |
| 5  |    | 22  | Guggenbach, Peter, von Zürich, in Ehrendingen                             |                                  | joint signature at two       |
| 5  |    | 15  | Huegin, David, von Oberwil BL, in Zürich                                  |                                  | joint signature at two       |
| 5  |    |     | Küng, Moritz, von Wagenhausen, in Brugg                                   |                                  | joint signature at two       |
| 5  |    | 47  | Müntener, Christian, von Sevelen, in Würenlos                             |                                  | joint signature at two       |
| 5  |    | 33  | Nigg-Bärlocher, Dr. Gabriela Ursula, von Pfäfers und Thal, in Nänikon     |                                  | joint signature at two       |
| 5  |    | 11  | Pirotta, Reto, von Emmen, in Suhr                                         |                                  | joint signature at two       |
| 5  |    | 45  | Preiss, Otto, österreichischer Staatsangehöriger, in Zeihen               |                                  | joint signature at two       |
| 5  |    |     | Sigl, Dominique, von Basel und Arbon, in Zürich                           |                                  | joint signature at two       |
| 5  |    | 28m | Ingold, Dr. Mathias, deutscher Staatsangehöriger, in Unterengstringen     |                                  | joint agent signature at two |
| 6  |    | 24  | Bürgisser, Bruno, von Werthenstein, in Nürensdorf                         |                                  | joint signature at two       |
| 6  |    | 34  | Maritz, Peter, von Lostorf, in Uster                                      |                                  | joint signature at two       |
| 6  |    | 26  | Rickli, Alex, von St. Gallenkappel und Dietikon, in Baden                 |                                  | joint signature at two       |
| 6  |    | 21  | Rothenbühler, Adrian, von Oberdorf SO, in Küttigen                        |                                  | joint signature at two       |
| 7  |    | 73  | Blattner, Mathias, von Küttigen, in Wettingen                             |                                  | joint signature at two       |
| 7  |    | 18  | Widmer, Urs, von Bussnang, in Weinfelden                                  |                                  | joint signature at two       |
| 8  |    | 41  | Eschermann, Dr. Bernhard, deutscher Staatsangehöriger, in Untersiggenthal |                                  | joint signature at two       |
| 9  |    | 26  | Merz, Renato, von Brugg, in Frick                                         | member of the board of directors | joint signature at two       |
| 9  |    |     | Lötscher, Kurt, von Flühli, in Cham                                       |                                  | joint signature at two       |
| 9  |    | 22  | Mazenauer, Peter, von Appenzell, in Berikon                               |                                  | joint signature at two       |
| 11 |    | 28  | Krafft, Gabrielle, von Vevey, in Zürich                                   |                                  | joint signature at two       |

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| CHE-101.538.426 | ABB Schweiz AG | Baden | 7 |
|-----------------|----------------|-------|---|

All data

| In | Mo  | Ca | Personal Data                                                              | Function                            | Signature              |
|----|-----|----|----------------------------------------------------------------------------|-------------------------------------|------------------------|
| 11 |     | 61 | Zimmermann, Martin, deutscher Staatsangehöriger, in Küssaberg (DE)         | president of the board of directors | joint signature at two |
| 11 |     | 79 | Zimmermann, Gilbert, von Schwändi, in Ehrendingen                          |                                     | joint signature at two |
| 12 |     | 29 | Ecknauer, Denis, von Herznach, in Egg                                      |                                     | joint signature at two |
| 12 |     |    | Hutzli, Martin, von Bern und Zweisimmen, in Zürich                         |                                     | joint signature at two |
| 12 |     | 79 | Mrose, Beda, von Magden, in Klingnau                                       |                                     | joint signature at two |
| 14 |     | 30 | Schupp, Bernhard, deutscher Staatsangehöriger, in Kuessaberg (DE)          |                                     | joint signature at two |
| 15 |     | 30 | Hofmann, Thomas, von Schlossrued, in Küsnacht ZH                           |                                     | joint signature at two |
| 15 |     | 52 | Vorbürger, Patrick, von St. Margrethen, in Zug                             |                                     | joint signature at two |
| 17 |     |    | Stirnemann, Bernadette, von Urdorf, in Zürich                              |                                     | joint signature at two |
|    | 18  | 33 | Smits, Peter, deutscher Staatsangehöriger, in Wettswil am Albis            |                                     | joint signature at two |
| 18 |     |    | Scharrer, Alexander, deutscher Staatsangehöriger, in Küssaberg (DE)        | member of the board of directors    | joint signature at two |
| 19 | 21m |    | Bernauer, Jürgen, deutscher Staatsangehöriger, in Birkenau (DE)            |                                     | joint signature at two |
| 19 |     | 53 | Paul, Willi, deutscher Staatsangehöriger, in Zürich                        |                                     | joint signature at two |
| 20 |     | 56 | Widenhorn, Leonhard, deutscher Staatsangehöriger, in Zug                   |                                     | joint signature at two |
| 20 | 28m |    | Jansen, Conrad, niederländischer Staatsangehöriger, in Rütihof             |                                     | joint signature at two |
|    | 21  |    | Bernauer, Jürgen, deutscher Staatsangehöriger, in Embrach                  |                                     | joint signature at two |
|    | 21  | 44 | Staiblin, Jasmin, deutsche Staatsangehörige, in Bäch-SZ                    |                                     | joint signature at two |
| 21 |     | 72 | Aebersold, Lorenz, von Basel, in Aarau                                     |                                     | joint signature at two |
| 21 |     | 79 | Bächli, Roland, von Würenlingen, in Lengnau AG                             |                                     | joint signature at two |
| 21 |     | 61 | Fleischmann, Jürg, von Altendorf, in Niederglatt                           |                                     | joint signature at two |
| 21 |     | 37 | Lütolf, Remo, von Meggen, in Meggen                                        | member of the board of directors    | joint signature at two |
| 22 |     | 60 | Kuhn, Marcel, von Winterthur und Mogelsberg, in Winterthur                 |                                     | joint signature at two |
| 22 |     | 78 | Pellin, Marco, von St. Gallen, in Oberlunkhofen                            |                                     | joint signature at two |
| 22 |     | 37 | Preis, Verena, deutsche Staatsangehörige, in Küssaberg (DE)                |                                     | joint signature at two |
| 22 |     | 63 | Vit, Tomas, tschechischer Staatsangehöriger, in Oberrohrdorf               |                                     | joint signature at two |
| 23 |     |    | Hansen, Peter, dänischer Staatsangehöriger, in Villigen                    |                                     | joint signature at two |
| 24 |     |    | Albrecht Rhomberg, Oliver, von Mels und St. Gallen, in Zürich              |                                     | joint signature at two |
| 24 |     | 40 | Brogle, Patrick, von Wittnau, in Olten                                     |                                     | joint signature at two |
| 24 |     |    | Haeusermann, Georges, von Egliswil, in Dättwil AG                          |                                     | joint signature at two |
| 24 |     | 47 | Itchner, Robert, von Zürich, in Uster                                      |                                     | joint signature at two |
| 24 |     |    | Keller, Edgar, deutscher Staatsangehöriger, in Stühlingen/Mauchen (DE)     | member of the board of directors    | joint signature at two |
| 24 |     |    | Koch, Andreas, von Villmergen, in Bremgarten AG                            |                                     | joint signature at two |
| 25 |     | 45 | Kannabiran, Rajagopal, indischer Staatsangehöriger, in Thalwil             |                                     | joint signature at two |
| 25 |     | 33 | Arnet, Daniel, von Gettnau und Zürich, in Künten                           |                                     | joint signature at two |
|    | 25  | 53 | Moor, Yann, von Wislikofen, in Gebenstorf                                  |                                     | joint signature at two |
| 26 | 50m |    | Stephan, Volker, deutscher Staatsangehöriger, in Rüschlikon                |                                     | joint signature at two |
| 26 | 37m |    | von Wartburg, Urs, von Wangen bei Olten, Rüttenen und Riedholz, in Sennhof |                                     | joint signature at two |
| 27 | 48m |    | Felber, Wolfgang, von Unterbözberg, in Biberstein                          |                                     | joint signature at two |
| 27 |     | 60 | Gabriel, Michael, von Winterthur, in Seuzach                               |                                     | joint signature at two |
|    | 28  |    | Scrugli, Federico, italienischer Staatsangehöriger, in Würenlos            |                                     | joint signature at two |
|    | 28  |    | Ingold, Dr. Mathias, deutscher Staatsangehöriger, in Unterengstringen      |                                     | joint signature at two |
| 28 |     | 52 | Humernik, Michael, deutscher Staatsangehöriger, in Zürich                  | member of the board of directors    | joint signature at two |
|    | 28  | 41 | Jansen, Conrad, niederländischer Staatsangehöriger, in Niederwil AG        |                                     | joint signature at two |

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|-----------------|----------------|-------|---|
| CHE-101.538.426 | ABB Schweiz AG | Baden | 8 |
|-----------------|----------------|-------|---|

All data

| In | Mo | Ca  | Personal Data                                                                  | Function                            | Signature              |
|----|----|-----|--------------------------------------------------------------------------------|-------------------------------------|------------------------|
| 29 |    | 31  | Droux, Stéphan, von Vuisternens-devant-Romont, in Villars-sur-Glâne            |                                     | joint signature at two |
| 29 |    | 52m | Zickler, Thomas, deutscher Staatsangehöriger, in Fehraltorf                    |                                     | joint signature at two |
|    | 30 |     | Rowlands, Jacqueline, britische Staatsangehörige, in Untersiggenthal           |                                     | joint signature at two |
| 30 |    | 79  | Petit, Madeleine, französische Staatsangehörige, in Baden                      |                                     | joint signature at two |
| 31 |    |     | Lehner, Philipp, von Rorschacherberg, in Zürich                                |                                     | joint signature at two |
| 32 |    | 38  | Insera, Andre, brasilianischer Staatsangehöriger, in Katy (Texas/US)           |                                     | joint signature at two |
| 33 |    | 34m | Terwiesch, Peter, von Maur, in Forch                                           | president of the board of directors | joint signature at two |
| 33 |    | 46  | Erb, Hanspeter, von Röthenbach im Emmental, in Spiez                           |                                     | joint signature at two |
| 33 |    |     | Gribi, Urs Erwin, von Lengnau BE, in Oberrohrdorf                              |                                     | joint signature at two |
|    | 34 | 61  | Terwiesch, Peter, von Maur, in Mannheim (DE)                                   | president of the board of directors | joint signature at two |
| 34 |    | 82  | Bischofberger, Daniel, von Oberegg, in Hünenberg-See                           |                                     | joint signature at two |
| 34 |    |     | Rothenbühler, Adrian, von Oberdorf SO, in Küttigen                             |                                     | joint signature at two |
| 34 |    |     | Zeidler, Daniel, von Arlesheim, in Kesswil                                     |                                     | joint signature at two |
| 34 |    | 67  | Zürcher, Martin, von Trub, in Buchs (ZH)                                       |                                     | joint signature at two |
| 35 |    |     | Schön, Dieter, deutscher Staatsangehöriger, in Klettgau (DE)                   |                                     | joint signature at two |
| 35 |    |     | Krafft, Gabrielle, von Vevey, in Zürich                                        |                                     | joint signature at two |
| 35 |    | 59  | Schumacker, Marcelo, brasilianischer Staatsangehöriger, in Fislisbach          |                                     | joint signature at two |
| 36 |    | 40m | Gonzalez, Antonio, spanischer Staatsangehöriger, in Zaragoza (ES)              |                                     | joint signature at two |
|    | 37 | 47  | von Wartburg, Urs, von Wangen bei Olten, Rüttenen und Riedholz, in Steinhausen |                                     | joint signature at two |
| 37 |    | 70  | Steck, Dettlef, von Zollikon, in Erlenbach (ZH)                                |                                     | joint signature at two |
|    | 40 | 78  | Gonzalez, Antonio, spanischer Staatsangehöriger, in Ponte Tresa                |                                     | joint signature at two |
| 40 |    | 64  | Sager, Clemens, von Ebikon, in Ottenbach                                       |                                     | joint signature at two |
| 41 |    | 78  | Martin, John, südafrikanischer Staatsangehöriger, in Wädenswil                 |                                     | joint signature at two |
| 41 |    |     | Roth, Ernst, von Ebnat-Kappel, in Freienwil                                    |                                     | joint signature at two |
| 43 |    | 49  | Lemmilä, Jari, finnischer Staatsangehöriger, in Horgen                         |                                     | joint signature at two |
| 43 |    |     | Fach, Alexander, deutscher Staatsangehöriger, in Boppelsen                     |                                     | joint signature at two |
| 43 |    | 67  | Stauffer, Helen, von Zürich, in Oberlunkhofen                                  |                                     | joint signature at two |
| 43 |    | 67  | Gschwend, Roger, von Altstätten, in Bassersdorf                                |                                     | joint signature at two |
| 44 |    |     | Lütolf, Remo, von Meggen, in Meggen                                            | member of the board of directors    | joint signature at two |
| 45 |    |     | Cotting, René, von Tentlingen, in Stäfa                                        | member of the board of directors    | joint signature at two |
| 45 |    |     | Eckert, Arthur, von Hornussen, in Frick                                        |                                     | joint signature at two |
| 46 |    | 55  | Stäubli, Thomas, von Laufenburg, in Gifp-Oberfrick                             |                                     | joint signature at two |
| 46 |    | 49  | Looser, Daniel, von Nessler, in Starrkirch-Wil                                 |                                     | joint signature at two |
| 47 |    |     | Jänicke, Frank, von Zürich, in Zollikon                                        |                                     | joint signature at two |
| 47 |    | 71  | Damonte, Mauro, italienischer Staatsangehöriger, in Othmarsingen               |                                     | joint signature at two |
| 47 |    | 56  | Gomino, Romeo, von Thal, in Horgen                                             |                                     | joint signature at two |
|    | 48 |     | Felber, Wolfgang, von Bözberg, in Biberstein                                   |                                     | joint signature at two |
|    | 50 | 66m | Stephan, Volker, deutscher Staatsangehöriger, in Wilen bei Wollerau            | member of the board of directors    | joint signature at two |
| 51 |    | 60  | Verdoire, Philippe, französischer Staatsangehöriger, in Zumikon                |                                     | joint signature at two |
| 52 |    | 82  | Romano, Mauro, von Frick, in Unterentfelden                                    |                                     | joint signature at two |
| 52 |    | 68  | Obriest, Adrian, von Neuenkirch, in Hergiswil (NW)                             |                                     | joint signature at two |
| 52 |    | 64  | Kirgis, Frank-Peter, von Beringen, in Beringen                                 |                                     | joint signature at two |
| 52 |    |     | Aufderreggen, Stephan, von Obergoms, in Chandolin-près-Savièse                 |                                     | joint signature at two |

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|-----------------|----------------|-------|---|
| CHE-101.538.426 | ABB Schweiz AG | Baden | 9 |
|-----------------|----------------|-------|---|

All data

| In | Mo | Ca  | Personal Data                                                                     | Function                            | Signature              |
|----|----|-----|-----------------------------------------------------------------------------------|-------------------------------------|------------------------|
| 52 |    |     | Drinovac, Marijo, von Wallisellen, in Embrach                                     |                                     | joint signature at two |
|    | 52 | 65  | Zickler, Thomas, deutscher Staatsangehöriger, in Pfäffikon                        |                                     | joint signature at two |
| 53 |    |     | Ramseier, Stefan, von Luzern, in Obersiggenthal                                   |                                     | joint signature at two |
| 53 |    | 68  | Wynen, Karin L. J., belgische Staatsangehörige, in Lenzburg                       |                                     | joint signature at two |
| 55 |    |     | Blauenstein, Oliver, von Basel, in Zürich                                         |                                     | joint signature at two |
| 56 |    | 72  | Degwiler, Urs, von Cham, in Wettswil am Albis                                     |                                     | joint signature at two |
| 57 |    | 78  | Kumm, Gregor, deutscher Staatsangehöriger, in Volketswil                          |                                     | joint signature at two |
| 57 |    | 70  | Lundquist, Anna, schwedische Staatsangehörige, in Remetschwil                     |                                     | joint signature at two |
| 57 |    | 59m | Nadkarni, Girish Vishwanath, amerikanischer Staatsangehöriger, in Rüschlikon      |                                     | joint signature at two |
| 57 |    |     | Rubinic, Natascia, italienische Staatsangehörige, in Kilchberg ZH                 |                                     | joint signature at two |
| 57 |    |     | Ziegler, Armin, deutscher Staatsangehöriger, in Biberstein                        |                                     | joint signature at two |
| 58 |    |     | Bolliger, Mathias, von Gontenschwil, in Wohlenschwil                              |                                     | joint signature at two |
| 59 |    |     | Esterhuizen, Frederik, südafrikanischer Staatsangehöriger, in Neuenhof            |                                     | joint signature at two |
| 59 |    |     | Luedtke, Max Dirk Tomas, schwedischer Staatsangehöriger, in Kilchberg ZH          |                                     | joint signature at two |
|    | 59 | 61  | Nadkarni, Girish Vishwanath, amerikanischer Staatsangehöriger, in Weston (US)     |                                     | joint signature at two |
| 60 |    |     | Schärer, André, von Möriken-Wildegg, in Möriken-Wildegg                           |                                     | joint signature at two |
| 60 |    | 70  | De Franco, Giuseppe Luigi, von Flawil, in Neftenbach                              |                                     | joint signature at two |
| 61 |    | 71  | Reinikkala, Veli-Matti, finnischer Staatsangehöriger, in Küsnacht ZH              | president of the board of directors | joint signature at two |
| 61 |    |     | Mandioni, Nadir, von Acquarossa, in Winkel                                        |                                     | joint signature at two |
| 63 |    |     | Berger, Oliver, deutscher Staatsangehöriger, in Erlenbach ZH                      |                                     | joint signature at two |
| 64 |    |     | Köhn, Paul Volker, deutscher Staatsangehöriger, in Zürich                         |                                     | joint signature at two |
| 64 |    |     | Müntener, Christian, von Sevelen, in Würenlos                                     |                                     | joint signature at two |
| 64 |    |     | Zingg, Marc André, von Bürglen TG, in Alberswil                                   |                                     | joint signature at two |
| 65 |    | 73  | Bottoni, Alberto, italienischer Staatsangehöriger, in Richterswil                 |                                     | joint signature at two |
|    | 66 |     | Stephan, Volker, deutscher Staatsangehöriger, in Feusisberg                       | member of the board of directors    | joint signature at two |
| 67 |    |     | Hepp, Harald, von Zürich, in Zürich                                               |                                     | joint signature at two |
| 67 |    |     | Fischer, Michael, deutscher Staatsangehöriger, in Baden                           |                                     | joint signature at two |
| 67 |    |     | Wernli, Jonas, von Thalheim (AG), in Baden                                        |                                     | joint signature at two |
| 67 |    |     | Dewar, Stephen, britischer Staatsangehöriger, in Aarau                            |                                     | joint signature at two |
| 68 |    |     | Ulmer, Patrick Johannes, deutscher Staatsangehöriger, in Lossburg-Wittendorf (DE) |                                     | joint signature at two |
| 70 |    | 71  | Swedjemark, Carl Axel Theodor, schwedischer Staatsangehöriger, in Meilen          |                                     | joint signature at two |
| 70 |    |     | Schmidt, Thomas, von Zürich, in Zürich                                            |                                     | joint signature at two |
| 70 |    |     | Hengartner, Lukas, von Waldkirch, in Zollikon                                     |                                     | joint signature at two |
| 71 |    |     | Basenach, Stefan, deutscher Staatsangehöriger, in Neustadt (DE)                   |                                     | joint signature at two |
| 71 |    |     | Beck, Brigitte, von Herrliberg, in Herrliberg                                     |                                     | joint signature at two |
| 71 |    |     | Hunjet-Moison, Petra, französische Staatsangehörige, in Ehrendingen               |                                     | joint signature at two |
| 71 |    |     | Lareida, Monica, von Cazis, in Horgen                                             |                                     | joint signature at two |
| 71 |    |     | Noite, Judith, deutsche Staatsangehörige, in Killwangen                           |                                     | joint signature at two |
| 71 |    |     | Jucker, Bernhard, von Zürich, in Wettingen                                        | president of the board of directors | joint signature at two |
| 71 |    |     | Hatt, Stefan, von Schaffhausen, in Wettingen                                      |                                     | joint signature at two |
| 71 |    |     | Vidale, Roland, von Lützelflüh, in Uster                                          |                                     | joint signature at two |
| 72 |    | 79  | Marotta, Enzo, italienischer Staatsangehöriger, in Baar                           |                                     | joint signature at two |
| 72 |    |     | Schumacher, Martin, deutscher Staatsangehöriger, in Unterengstringen              |                                     | joint signature at two |

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| CHE-101.538.426 | ABB Schweiz AG | Baden | 10 |
|-----------------|----------------|-------|----|

All data

| In | Mo | Ca | Personal Data                                                                             | Function | Signature              |
|----|----|----|-------------------------------------------------------------------------------------------|----------|------------------------|
| 72 |    |    | Eckert, Thomas, deutscher Staatsangehöriger, in Lengnau (AG)                              |          | joint signature at two |
| 72 |    |    | Lampreu, Marco, von Birmenstorf (AG), in Fislisbach                                       |          | joint signature at two |
| 73 |    |    | Mosimann, Philipp, von Sumiswald, in Zürich                                               |          | joint signature at two |
| 74 |    |    | Zurbriggen, Adrian, von Saas-Grund, in Untersiggenthal                                    |          | joint signature at two |
| 75 |    |    | Looser, Daniel, von Nesslau, in Starrkirch-Wil                                            |          | joint signature at two |
| 76 |    |    | Vepsäläinen, Heikki Antero, finnischer Staatsangehöriger, in Wädenswil                    |          | joint signature at two |
| 78 |    |    | Husain, Bazmi Rizwan, indischer Staatsangehöriger, in Zürich                              |          | joint signature at two |
| 78 |    |    | Müller, Daniel Micha, von Oberkulm, in Zürich                                             |          | joint signature at two |
| 78 |    |    | Eberle, Thomas Christoph, von Flums, in Regensberg                                        |          | joint signature at two |
| 78 |    | 83 | Rytoft, Claes-Göran Hakan, schwedischer Staatsangehöriger, in Adliswil                    |          | joint signature at two |
| 78 |    |    | Berger, Hansjörg, deutscher Staatsangehöriger, in Wallisellen                             |          | joint signature at two |
| 79 |    |    | Akanji, Abimbola, von Bussnang, in Wiesendangen                                           |          | joint signature at two |
| 79 |    |    | Egli, Elisabeth, von Zürich, in Baden                                                     |          | joint signature at two |
| 79 |    |    | Jordan, Thorsten, deutscher Staatsangehöriger, in Waldshut-Tiengen (DE)                   |          | joint signature at two |
| 79 |    |    | Stumm, Daniel, deutscher Staatsangehöriger, in Gebenstorf                                 |          | joint signature at two |
| 80 |    |    | Fischer, Adrian, von Willisau, in Remetschwil                                             |          | joint signature at two |
| 82 |    |    | Cluzel-Ewe, Sébastien Jean-Claude, französischer Staatsangehöriger, in Bad Säckingen (DE) |          | joint signature at two |
| 82 |    |    | Funk, André, deutscher Staatsangehöriger, in Zürich                                       |          | joint signature at two |

Aarau, 02.01.2017 16:17

The information above is given with not commitment and is in no way legally binding.

Internet extract

# Handelsregisteramt des Kantons Aargau

|                 |                                       |            |          |                          |   |
|-----------------|---------------------------------------|------------|----------|--------------------------|---|
| Firmennummer    | Rechtsnatur                           | Eintragung | Löschung | Übertrag<br>von:<br>auf: | 1 |
| CHE-343.542.541 | Gesellschaft mit beschränkter Haftung | 01.12.2016 |          |                          |   |



Alle Eintragungen

| Ei | Lö | Firma                                                                | Ref | Sitz  |
|----|----|----------------------------------------------------------------------|-----|-------|
| 1  |    | <b>ABB HV Cables (Switzerland) GmbH</b>                              | 1   | Baden |
| 1  |    | (ABB HV Cables (Switzerland) Sàrl) (ABB HV Cables (Switzerland) LLC) |     |       |

| Ref | Stammkap.(CHF) | Ei | Ae | Lö | Stammanteile | Gesellschafter (siehe Personalangaben) | Ei | Lö | Domiziladresse                       |
|-----|----------------|----|----|----|--------------|----------------------------------------|----|----|--------------------------------------|
| 1   | 20'000.00      | 1  |    |    | 200 x 100.00 | ABB Schweiz AG (CHE-101.538.426)       | 1  |    | Brown Boveri Strasse 6<br>5400 Baden |

| Ei | Lö | Zweck                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Ei | Lö | weitere Adressen |
|----|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|------------------|
| 1  |    | Aktive Verwaltung der Immaterialgüterrechte des Hochspannungskabelsystemgeschäfts einschliesslich der Erbringung von damit zusammenhängenden Dienstleistungen, insbesondere, aber nicht ausschliesslich, in den Bereichen Patentierung, Patentstreitverfahren, Lizenzierung und Entwicklung von Software; kann Zweigniederlassungen und Tochtergesellschaften errichten, sich an anderen Unternehmen beteiligen, Grundstücke erwerben, halten, verwalten, verwerten und veräussern, Finanzierungen für eigene oder fremde Rechnung vornehmen sowie Garantien und Bürgschaften für Tochtergesellschaften und Dritte eingehen. |    |    |                  |

| Ei | Lö | Bemerkungen                                                                                                             | Ref | Statutendatum |
|----|----|-------------------------------------------------------------------------------------------------------------------------|-----|---------------|
| 1  |    | Vom Gesetz abweichende Modalitäten für die Abtretung von Stammanteilen gemäss näherer Umschreibung in den Statuten.     | 1   | 30.11.2016    |
| 1  |    | Mitteilungen an die Gesellschafter erfolgen per Brief, E-Mail oder Telefax an die im Anteilbuch verzeichneten Adressen. |     |               |

| Ei | Lö | Besondere Tatbestände                                                                                                                                                                                                                                                                                                                                          | Ref | Publikationsorgan |
|----|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------|
| 1  |    | Beabsichtigte Sachübernahme: Die Gesellschaft beabsichtigt, nach der Gründung sämtliche Immaterialgüterrechte, die ausschliesslich im Zusammenhang mit dem Hochspannungskabelgeschäft der ABB Gruppe stehen und nicht von der Übertragung ausgenommen werden, sowie die damit zusammenhängenden Rechte zum Preis von höchstens CHF 1'000'000.00 zu übernehmen. | 1   | SHAB              |

| Ze | Ref | TR-Nr | TR-Datum   | SHAB | SHAB-Dat.          | Seite / Id | Ze | Ref | TR-Nr | TR-Datum | SHAB | SHAB-Dat. | Seite / Id |
|----|-----|-------|------------|------|--------------------|------------|----|-----|-------|----------|------|-----------|------------|
| AG | 1   | 11476 | 01.12.2016 |      | (Genehmigung EHRA) |            |    |     |       |          |      |           |            |

| Ei | Ae | Lö | Personalangaben                               | Funktion                          | Zeichnungsart                   |
|----|----|----|-----------------------------------------------|-----------------------------------|---------------------------------|
| 1  |    |    | ABB Schweiz AG (CHE-101.538.426), in Baden    | Gesellschafterin                  |                                 |
| 1  |    |    | Cotting, René, von Tentlingen, in Stäfa       | Geschäftsführer                   | Kollektivunterschrift zu zweien |
| 1  |    |    | Lütolf, Remo, von Meggen, in Meggen           | Vorsitzender der Geschäftsführung | Kollektivunterschrift zu zweien |
| 1  |    |    | Ernst & Young AG (CHE-491.907.686), in Zürich | Revisionsstelle                   |                                 |

Aarau, 02.12.2016 15:16

Auszug beglaubigt  
Der Registerführer:

Gebühr: CHF 40.00

Dieser Auszug aus dem kantonalen Handelsregister hat ohne die nebenstehende Originalbeglaubigung keine Gültigkeit. Er enthält alle gegenwärtig für diese Firma aktuellen Eintragungen sowie allfällig gestrichene Eintragungen. Auf besonderes Verlangen kann auch ein Auszug erstellt werden, der lediglich alle gegenwärtig aktuellen Eintragungen enthält. Bezüglich der letzten, noch nicht publizierten Eintragung liegt die Ermächtigung des Eidgenössischen Amtes für das Handelsregister im Sinne von Art. 11 Abs. 2 HRegV vor.



## ABB HV Cables (Switzerland) GmbH, Baden

(CHE-343.542.541)

### Circular Resolution of the Members of the Management

The undersigned, being all members of the management of ABB HV Cables (Switzerland) GmbH (the Company), herewith pass the following resolutions, each expressly waiving his right to request a meeting in person or oral deliberation:

#### I. Consideration

(a)

(b)

(a)

(b)

in " s.

## II. Resolutions

Having reviewed the latest drafts, as the case may be, of the IP Contribution Agreement and the Revolving Credit Agreement, the Managing Officers unanimously resolve:

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. to authorize each Managing Officer individually and any two of Ulf Hoof, Natascia Rubinic, Oskar Wikman, Alistair Bolton, Fredrik Hallgren, Bobby Jacob Swedjemark, Petra-Hunjet-Moison, Oliver Albrecht, Hansjoerg Berger, Thorsten Jordan and Beat Gabriel (the **Authorized Persons**), with signatory authority and with the right to grant substitution, to finalize, agree to, accept, execute, deliver and/or dispatch on the Company's behalf the IP Contribution Agreement and the Revolving Credit Agreement and any notices, certificates, declarations or other documents, any amendments, variations and consents, to be executed or given by the Company in connection with the Company entering into the IP Contribution Agreement and the Revolving Credit Agreement; and
6. \_\_\_\_\_



7.

A-

i.

ii.

iii.

8.

The authorizations and power of attorneys set out in Section II. 5, 6, 7 and 8 shall expire on the date one year following after these resolutions have been passed.

These resolutions shall be governed by Swiss law.

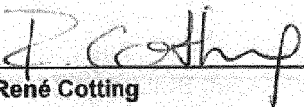
*[Signature page follows]*

Baden, 6.12.2016

[Place, Date]

  
\_\_\_\_\_  
**Remo Lütolf**  
Chairman of the management

[Place, Date]

  
\_\_\_\_\_  
**René Cotting**  
Member of the management

Confidential

6 | 5

**Distribution:**

- Domicile
- Quotaholders
- Auditors
- Managers

DAC22747688/11 121731-0095

To Intellectual Property Authorities, pertinent Courts and Law Firms handling Intellectual Property Matters of and for the undersigned

**POWER of ATTORNEY**

The undersigned

ABB HV Cables (Switzerland) GmbH

hereby makes, constitutes and appoints

Kristina Axell, ABB AB

as its attorney-in-fact to file and prosecute applications for patents, utility models, trademarks, design patents, copyrights and topographies and otherwise obtain protection for the undersigned's intellectual property, and to maintain, and defend such intellectual property rights as well as to proceed against intellectual property rights of third parties. The above person shall be empowered to undertake all necessary acts for effectuating the foregoing.

The above person is empowered to take back and to assign – for corrective purposes, or pursuant to instructions from the undersigned and/or an agreement executed by the undersigned – filed applications as well as granted intellectual property rights among companies belonging to the ABB Group.

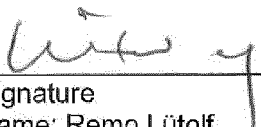
The above person is empowered to act as attorney-in-fact for the undersigned before intellectual property authorities, such as Patent- and Trademark Offices, as well as before pertinent courts in all matters of intellectual property, including acquiring, defending, maintaining and asserting intellectual property rights of the undersigned and proceeding against intellectual property rights of third parties.

The above person is further empowered to grant substitute powers on behalf of the undersigned for representing the undersigned before intellectual property authorities, such as Patent- and Trademark Offices, as well as before pertinent courts for acquiring, defending, maintaining and asserting intellectual property rights of the undersigned and proceeding against intellectual property rights of third parties for a scope no greater than that granted within this power of attorney. The above person shall provide the undersigned with copies of any such substitute powers granted unless such substitute powers are explicitly limited to individual intellectual property rights.

This power of attorney replaces all former powers of attorney relating to intellectual property of the undersigned that were issued to the above person by the undersigned.

This power of attorney and/or any substitute powers can be revoked at any time by the undersigned upon written notice. This power of attorney automatically expires without notice when the above person leaves the employment of ABB AB.

ABB HV Cables (Switzerland) GmbH

  
\_\_\_\_\_  
Signature  
Name: Remo Lütolf  
Date 20.12.2016

  
\_\_\_\_\_  
Signature  
Name: Rene Cotting  
Date 20.12.2016



## Online Fee Payment - **Debit Order**

Thank you for your order of 22.02.2017 11:07 (GMT+1)

On the basis of this debit order, the amount of EUR 100,00 will be debited from deposit account No. 28100084 in respect of the fees listed below for application No. EP09779386.3 with effect from **22.02.2017** subject to sufficient funds being available in the account.

Deposit Account: 28100084  
Deposit Account Holder: Asea Brown Boveri AB  
Paid by: Inger Noaksson  
Batch reference:

Application No.: EP09779386.3  
Applicant name: ABB Schweiz AG  
File Reference: 10668-EP-EPT

Number of Fees: 1  
**Total Amount in EUR: 100,00 +**

| Fee code | Description             | Amount EUR |
|----------|-------------------------|------------|
| 022      | Registering of transfer | 100,00 +   |

5F1F7C4C0A5961396B315



## Online Fee Payment - **Debit Order**

Thank you for your order of 22.02.2017 11:07 (GMT+1)

On the basis of this debit order, the amount of EUR 100,00 will be debited from deposit account No. 28100084 in respect of the fees listed below for application No. EP14705201.3 with effect from **22.02.2017** subject to sufficient funds being available in the account.

Deposit Account: 28100084  
Deposit Account Holder: Asea Brown Boveri AB  
Paid by: Inger Noaksson  
Batch reference:

Application No.: EP14705201.3  
Applicant name: ABB Schweiz AG  
File Reference: SE-11696-EP-EPT

Number of Fees: 1  
**Total Amount in EUR: 100,00 +**

| Fee code | Description             | Amount EUR |
|----------|-------------------------|------------|
| 022      | Registering of transfer | 100,00 +   |

04032E32665B331547255



## Online Fee Payment - **Debit Order**

Thank you for your order of 22.02.2017 11:07 (GMT+1)

On the basis of this debit order, the amount of EUR 100,00 will be debited from deposit account No. 28100084 in respect of the fees listed below for application No. EP14705196.5 with effect from **22.02.2017** subject to sufficient funds being available in the account.

Deposit Account: 28100084  
Deposit Account Holder: Asea Brown Boveri AB  
Paid by: Inger Noaksson  
Batch reference:

Application No.: EP14705196.5  
Applicant name: ABB Schweiz AG  
File Reference: SE-11739-EP-EPT

Number of Fees: 1  
**Total Amount in EUR: 100,00 +**

| Fee code | Description             | Amount EUR |
|----------|-------------------------|------------|
| 022      | Registering of transfer | 100,00 +   |

54497A1F45612C182A6C6



## Online Fee Payment - **Debit Order**

Thank you for your order of 22.02.2017 11:07 (GMT+1)

On the basis of this debit order, the amount of EUR 100,00 will be debited from deposit account No. 28100084 in respect of the fees listed below for application No. EP14720950.6 with effect from **22.02.2017** subject to sufficient funds being available in the account.

Deposit Account: 28100084  
Deposit Account Holder: Asea Brown Boveri AB  
Paid by: Inger Noaksson  
Batch reference:

Application No.: EP14720950.6  
Applicant name: ABB Schweiz AG  
File Reference: SE-11750-EP-EPT

Number of Fees: 1  
**Total Amount in EUR: 100,00 +**

| Fee code | Description             | Amount EUR |
|----------|-------------------------|------------|
| 022      | Registering of transfer | 100,00 +   |

555B76377B1050671A762





## Online Fee Payment - **Debit Order**

Thank you for your order of 22.02.2017 11:07 (GMT+1)

On the basis of this debit order, the amount of EUR 100,00 will be debited from deposit account No. 28100084 in respect of the fees listed below for application No. EP14723070.0 with effect from **22.02.2017** subject to sufficient funds being available in the account.

Deposit Account: 28100084  
Deposit Account Holder: Asea Brown Boveri AB  
Paid by: Inger Noaksson  
Batch reference:

Application No.: EP14723070.0  
Applicant name: ABB Schweiz AG  
File Reference: SE-11765-EP-EPT

Number of Fees: 1  
**Total Amount in EUR: 100,00 +**

| Fee code | Description             | Amount EUR |
|----------|-------------------------|------------|
| 022      | Registering of transfer | 100,00 +   |

714121531F3030613D1A0



## Online Fee Payment - **Debit Order**

Thank you for your order of 22.02.2017 11:07 (GMT+1)

On the basis of this debit order, the amount of EUR 100,00 will be debited from deposit account No. 28100084 in respect of the fees listed below for application No. EP14735906.1 with effect from **22.02.2017** subject to sufficient funds being available in the account.

Deposit Account: 28100084  
Deposit Account Holder: Asea Brown Boveri AB  
Paid by: Inger Noaksson  
Batch reference:

Application No.: EP14735906.1  
Applicant name: ABB Schweiz AG  
File Reference: SE-11832-EP-EPT

Number of Fees: 1  
**Total Amount in EUR: 100,00 +**

| Fee code | Description             | Amount EUR |
|----------|-------------------------|------------|
| 022      | Registering of transfer | 100,00 +   |

381A6605674F0D7D3B723



## Online Fee Payment - **Debit Order**

Thank you for your order of 22.02.2017 11:07 (GMT+1)

On the basis of this debit order, the amount of EUR 100,00 will be debited from deposit account No. 28100084 in respect of the fees listed below for application No. EP14756031.2 with effect from **22.02.2017** subject to sufficient funds being available in the account.

Deposit Account: 28100084  
Deposit Account Holder: Asea Brown Boveri AB  
Paid by: Inger Noaksson  
Batch reference:

Application No.: EP14756031.2  
Applicant name: ABB Schweiz AG  
File Reference: SE-11841-EP-EPT

Number of Fees: 1  
**Total Amount in EUR: 100,00 +**

| Fee code | Description             | Amount EUR |
|----------|-------------------------|------------|
| 022      | Registering of transfer | 100,00 +   |

463919004523421353116



## Online Fee Payment - **Debit Order**

Thank you for your order of 22.02.2017 11:07 (GMT+1)

On the basis of this debit order, the amount of EUR 100,00 will be debited from deposit account No. 28100084 in respect of the fees listed below for application No. EP11761067.5 with effect from **22.02.2017** subject to sufficient funds being available in the account.

Deposit Account: 28100084  
Deposit Account Holder: Asea Brown Boveri AB  
Paid by: Inger Noaksson  
Batch reference:

Application No.: EP11761067.5  
Applicant name: ABB Schweiz AG  
File Reference: SE-11177-EP-EPT

Number of Fees: 1  
**Total Amount in EUR: 100,00 +**

| Fee code | Description             | Amount EUR |
|----------|-------------------------|------------|
| 022      | Registering of transfer | 100,00 +   |

61235777544103635B8E7



## Online Fee Payment - **Debit Order**

Thank you for your order of 22.02.2017 11:07 (GMT+1)

On the basis of this debit order, the amount of EUR 100,00 will be debited from deposit account No. 28100084 in respect of the fees listed below for application No. EP15184766.2 with effect from **22.02.2017** subject to sufficient funds being available in the account.

Deposit Account: 28100084  
Deposit Account Holder: Asea Brown Boveri AB  
Paid by: Inger Noaksson  
Batch reference:

Application No.: EP15184766.2  
Applicant name: ABB Schweiz AG  
File Reference: SE-12076-EP-EPA

Number of Fees: 1  
**Total Amount in EUR: 100,00 +**

| Fee code | Description             | Amount EUR |
|----------|-------------------------|------------|
| 022      | Registering of transfer | 100,00 +   |

6C3F034A25385C081C4D4



## Online Fee Payment - **Debit Order**

Thank you for your order of 22.02.2017 11:07 (GMT+1)

On the basis of this debit order, the amount of EUR 100,00 will be debited from deposit account No. 28100084 in respect of the fees listed below for application No. EP15202257.0 with effect from **22.02.2017** subject to sufficient funds being available in the account.

Deposit Account: 28100084  
Deposit Account Holder: Asea Brown Boveri AB  
Paid by: Inger Noaksson  
Batch reference:

Application No.: EP15202257.0  
Applicant name: ABB Schweiz AG  
File Reference: SE-12122-EP-EPA

Number of Fees: 1  
**Total Amount in EUR: 100,00 +**

| Fee code | Description             | Amount EUR |
|----------|-------------------------|------------|
| 022      | Registering of transfer | 100,00 +   |

565F7F0A544F126513753



## Online Fee Payment - **Debit Order**

Thank you for your order of 22.02.2017 11:07 (GMT+1)

On the basis of this debit order, the amount of EUR 100,00 will be debited from deposit account No. 28100084 in respect of the fees listed below for application No. EP16178072.1 with effect from **22.02.2017** subject to sufficient funds being available in the account.

Deposit Account: 28100084  
Deposit Account Holder: Asea Brown Boveri AB  
Paid by: Inger Noaksson  
Batch reference:

Application No.: EP16178072.1  
Applicant name: ABB Schweiz AG  
File Reference: SE-16067-EP-EPA

Number of Fees: 1  
**Total Amount in EUR: 100,00 +**

| Fee code | Description             | Amount EUR |
|----------|-------------------------|------------|
| 022      | Registering of transfer | 100,00 +   |

26172A6921340B7E136D4