

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| ABB OY | 04/22/2015 |
| RECEIVING PARTY DATA | |
| Name: | ABB TECHNOLOGY OY |
| Street Address: | VALIMOPOLKU 4 A |
| City: | HELSINKI |
| State/Country: | FINLAND |
| Postal Code: | FI-00380 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 29465327 |
| CORRESPONDENCE DATA | |
| Fax Number: | (855)221-0917 |
| <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> | |
| Phone: | 2029068600 |
| Email: | EBURGESS@DYKEMA.COM |
| Correspondent Name: | DYKEMA GOSSETT PLLC |
| Address Line 1: | 1300 I STREET, NW |
| Address Line 2: | SUITE 300 WEST |
| Address Line 4: | WASHINGTON, D.C. 20005 |
| ATTORNEY DOCKET NUMBER: | 66411-135 |
| NAME OF SUBMITTER: | RICHARD H. TUSHIN |
| SIGNATURE: | /Richard H. Tushin/ |
| DATE SIGNED: | 06/01/2015 |
| Total Attachments: 7 | |
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PATENT ASSIGNMENT

WHEREAS, ABB Oy, a corporation organized and existing under the laws of Finland, having its principal place of business at Strömbergintie 1, FI-00380 Helsinki, Finland (hereinafter called the ASSIGNOR), is the proprietor of Patent(s) and Patent Application(s) identified and listed on Annex A hereto; and

WHEREAS, ABB Technology Oy, a corporation organized and existing under the laws of Finland, having its principal place of business at Valimopolku 4 A, FI-00380 Helsinki, Finland (hereinafter called the ASSIGNEE), is desirous of acquiring the entire right, title and interest of the ASSIGNOR in and to the aforesaid Patent(s) and Patent Application(s),

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable considerations, the receipt of which is hereby acknowledged, the ASSIGNOR hereby conveys, sells, assigns and transfers to the ASSIGNEE, its successors and assigns, the entire right, title and interest in and to the aforesaid Patent(s) and Patent Application(s) and any divisions, continuations, continuations-in-part, requests for continuing examinations, renewals, reissues, reexaminations, patent cooperation treaty equivalents and foreign counterparts and extensions thereof, including all emoluments, advantages, profits and benefits accruing or belonging thereto, and all patents or patent applications to which any of the aforesaid Patent(s) and Patent Application(s) directly or indirectly claims priority or for which any of the aforesaid Patent(s) and Patent Application(s) directly or indirectly forms a basis for priority.



The ASSIGNOR hereby further covenants and agrees that it will communicate to the ASSIGNEE any and all facts known to it respecting the aforesaid Patent(s) and Patent Application(s), and testify in any legal proceeding, sign all lawful papers, execute and deliver all papers and take any actions that may be necessary or desirable to perfect the title to any of the aforesaid Patent(s) and Patent Application(s), execute all divisions, continuations, reexaminations, reissues, substitutes and other required applications, and make all rightful oaths and generally do everything possible to aid the ASSIGNEE to obtain and enforce proper patent protection for said Patent(s) and Patent Application(s) in all countries.


The ASSIGNOR consents to the ASSIGNEE'S proceeding with the aforesaid Patent Application(s), if any, in its own name in substitution of the ASSIGNOR and the said ASSIGNOR agrees to do all that may be required to put the foregoing into effect.

[signature page follows]

IN WITNESS WHEREOF, the said ASSIGNOR has executed this document on
this 22nd day of April, 2015.

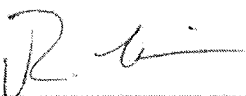
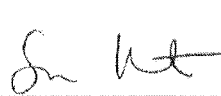
ABB Oy

By:  
Tapio Metso Sari Kujala

Attest: 
Nina Laurila

IN WITNESS WHEREOF, the said ASSIGNEE has executed this document on
this 22nd day of April, 2015.

ABB Technology Oy

By:  
Pasi Karhinen Saara Kuusisto

Attest: 
Nina Laurila

Assignment from ABB Oy to ABB Technology Oy

ANNEX A

| Country | Appln No. | Filing Date Day/Month/Year | Reference No. | Case No. |
|----------------|------------------|--------------------------------------|----------------------|-----------------|
| Australia | 2014224118 | 12.9.2014 | FI-1307801IN.0921-AU | 2131600AU |
| | 2014224159 | 15.9.2014 | FI-1307901.0922-AU | 2131601AU |
| Brazil | PI0415984-5 | 29.10.2004 | FI-3498.0119-BR | 2021320BR |
| | PI0502415-3 | 10.6.2005 | FI-3548.0179-BR | 2040940BR |
| | BR1020120031841 | 13.2.2012 | FI-10014.0586-BR | 2101356BR |
| | PI1105482-4 | 16.11.2011 | FI-10015.0587-BR | 2101461BR |
| China | 200910178328.1 | 16.10.2009 | FI-3893.0416-CN | 2080542CN |
| | 201010111501.9 | 2.2.2010 | FI-3904.0427-CN | 2081840CN |
| | 201110025166.5 | 18.1.2011 | FI-4026.0526-CN | 2100027CN |
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| | 201210039993.4 | 20.2.2012 | FI-10014.0586-CN | 2101356CN |
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| | 201110362369.3 | 15.11.2011 | FI-10060.0625-CN | 2101556CN |
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| | 201410503047.X | 26.9.2014 | FI-1307801IN.0921-CN | 2131600CN |
| 201410503753.4 | 26.9.2014 | FI-1307901.0922 | 2131601CN | |

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| China | 201510020556.1 | 15.1.2015 | FI-1309301.0891-CN | 2131964CN |
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| | 201210111590.6 | 16.4.2012 | FI-10107.0666-CN | 2110631CN |
| | 201210098012.3 | 5.4.2012 | FI-10120.0678-CN | 2110577CN |
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| Finland | 20075931 | 18.12.2007 | FI-3802.0350-FI | 2072067FI |
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| Germany | 202015100540.7 | 5.2.2015 | FI-1305201.0887-DE | 2132152DEU |
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| | 4400/CHE/2013 | 27.9.2013 | FI-1307801IN.0921-IN | 2131600IN |
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| Malaysia | PI2012000487 | 3.2.2012 | FI-10014.0586-MY | 2101356MY |
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| Mexico | MX/A/2012/002257 | 22.2.2012 | FI-10014.0586-MX | 2101356MX |
| Singapore | 10201405005R | 3.2.2012 | FI-10014.0586-SG-DIV | 2101356SG/DIV |
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| USA | 13/624,366 | 21.9.2012 | FI-10106.0665-US | 2110580US |
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| | 14/020,533 | 6.9.2013 | FI-12039.0777-US | 2121438US |
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| USA | 14/508,467 | 7.10.2014 | FI-12082.0806-US | 2130551US |
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