

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3520683

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:	14317567
CORRESPONDENCE DATA		
Fax Number:		
<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>		
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Correspondent Name:	BUCHANAN INGERSOLL & ROONEY PC	
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ATTORNEY DOCKET NUMBER:	1034456-000327	
NAME OF SUBMITTER:	JONATHAN R. BOWSER	
SIGNATURE:	/JONATHAN R. BOWSER/	
DATE SIGNED:	09/10/2015	
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.

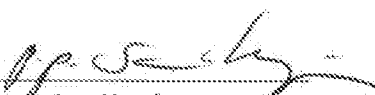
The ASSIGNOR hereby further covenants and agrees that it will communicate to the ASSIGNEE any and all facts known to it respecting the aforesaid Patent(s) and Patent Application(s), and testify in any legal proceeding, sign all lawful papers, execute and deliver all papers and take any actions that may 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.

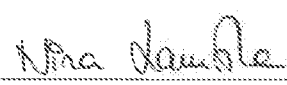
The ASSIGNOR consents to the ASSIGNEE'S proceeding with the aforesaid Patent Application(s), if any, in its own name in substitution of the ASSIGNOR and the said ASSIGNOR agrees to do all that may be required to put the foregoing into effect.

[signature page follows]

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

ABB Oy

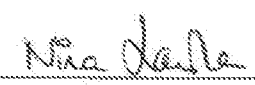
By:  
Tapio Metso Sari Kujala

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
	201010290749.6	20.9.2010	FI-4066.0537-CN	2091434CN
	201210048285.7	28.2.2012	FI-10005.0578-CN	2101675CN
	201210039993.4	20.2.2012	FI-10014.0586-CN	2101356CN
	201110370202.1	15.11.2011	FI-10015.0587-CN	2101461CN
	201110362369.3	15.11.2011	FI-10060.0625-CN	2101556CN
	201210084327.2	27.3.2012	FI-10086.0646-CN	2110212CN
	201210093763.6	31.3.2012	FI-10089.0649-CN	2110213CN
	201210447537.3	9.11.2012	FI-10097.0657-CN	2111485CN
	201210353176.6	20.9.2012	FI-10106.0665-CN	2110580CN
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	201210425422.4	30.10.2012	FI-10117.0675-CN	2111603CN
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	201310594336.0	21.11.2013	FI-12024.0768-CN	2121793CN
	201410090047.1	12.3.2014	FI-12065.0794-CN	2130141CN
	201410157793.8	18.4.2014	FI-12117.0833-CN	2130395CN
	201410295609.6	26.6.2014	FI-12145.0849-CN	2130670CN
	201410645871.9	12.11.2014	FI-1305301.0888-CN	2131709CN
	201410659642.2	18.11.2014	FI-1306601CH.0885-CN	2131966CN
	201410503047.X	26.9.2014	FI-1307801IN.0921-CN	2131600CN
	201410503753.4	26.9.2014	FI-1307901.0922	2131601CN

Country	Appln No.	Filing Date Day/Month/Year	Reference No.	Case No.
China	201510020556.1	15.1.2015	FI-1309301.0891-CN	2131964CN
	201510102932.1	9.3.2015	FI-1309701.0896-CN	2140095CN
	201420693697.0	18.11.2014	FI-1304901.0882-CN	2132024CN
	201520102990.X	12.2.2015	FI-1305201.0887-CN	2132152CNU
	201520113392.2	16.2.2015	FI-1310901.0911-CN	2140205CNU
	201520103063.X	12.2.2015	FI-1401501.0941-CN	2140180CNU
	201520127932.2	5.3.2015	FI-1405201.0953-CN	2140310CNU
	201110122110.1	6.5.2011	FI-4062.0533-CN	2100194CN
	201210091348.7	30.3.2012	FI-10072.0636-CN	2110211CN
	201310004904.7	7.1.2013	FI-10093.0653-CN	2111885CN
	201210111590.6	16.4.2012	FI-10107.0666-CN	2110631CN
	201210098012.3	5.4.2012	FI-10120.0678-CN	2110577CN
	201210311172.1	28.8.2012	FI-11027.0697-CN	2111162CN
	201210258764.1	24.7.2012	FI-11058.0722-CN	2111686CN
	201310034763.3	29.1.2013	FI-11059.0723-CN	2112075CN
	201310279460.8	4.7.2013	FI-11076.0732-CN	2121083CN
	201310014418.3	15.1.2013	FI-11079.0735-CN	2111897CN
	201310218384.X	4.6.2013	FI-11090.0737-CN	2120498CN
	201310169079.6	9.5.2013	FI-11092.0739-CN	2120162CN
	201310110531.1	1.4.2013	FI-11093.0740-CN	2120331CN
	201310152850.9	27.4.2013	FI-12016.0760-CN	2120676CN
	201310524687.4	30.10.2013	FI-12017.0761-CN	2121051CN
	201310573491.4	15.11.2013	FI-12034.0772-CN	2121546CN
	201310397555.X	4.9.2013	FI-12039.0777-CN	2121438CN
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	201410043359.7	29.1.2014	FI-12080.0804-CN	2130042CN
	201410524736.9	8.10.2014	FI-12082.0806-CN	2130551CN
	201410790158.3	17.12.2014	FI-12109.0825-CN	2131461CN
	201410790143.7	17.12.2014	FI-12110.0826-CN	2131543CN
	201410384544.2	6.8.2014	FI-12125.0841-CN	2130711CN
	201410578379.4	24.10.2014	FI-12157.0852-CN	2131410CN
	201410457841.5	10.9.2014	FI-12159.0854-CN	2131492CN
	201410720794.9	2.12.2014	FI-12160.0855-CN	2131397CN
	201410749182.2	9.12.2014	FI-12161.0856-CN	2130928CN
	201410787720.7	17.12.2014	FI-12162.0857-CN	2131864CN
	201410395054.2	12.8.2014	FI-1301501.0865-CN	2131091CN
	201410498531.8	25.9.2014	FI-1302201.0868-CN	2130712CN
	201410327699.2	10.7.2014	FI-1302501.0869-CN	2131092CN
	201410674273.4	21.11.2014	FI-1307301.0907-CN	2131756CN
	201510111675.8	13.3.2015	FI-1308101.0899-CN	2130930CN
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Country	Appln No.	Filing Date Day/Month/Year	Reference No.	Case No.
Finland	20075931	18.12.2007	FI-3802.0350-FI	2072067FI
	20116080	2.11.2011	FI-10096.0656-FI	2111457FI
	20135135	14.2.2013	FI-12001.0749-FI	2120952FI
	20135697	26.6.2013	FI-12007.0755-FI	2130499FI
	20145381	24.4.2014	FI-1304801.0881-FI	2140424FI
	20136117	14.11.2013	FI-1305301.0888-FI	2131709FI
Germany	202015100540.7	5.2.2015	FI-1305201.0887-DE	2132152DEU
	202015100678.0	12.2.2015	FI-1401501.0941-DE	2140180DEU
	202015101052.4	5.3.2015	FI-1405201.0953-DE-UM	2140310DEU
	202015100358.7	27.1.2015	FI-1305101.0884-DE	2140097DEU
India	2702/CHE/2012	4.7.2012	FI-11049.0713-IN	2111042IN
	1923/CHE/2014	11.4.2014	FI-12117.0833-IN	2130395IN
		14.11.2014	FI-1306601CH.0885-IN	2131966IN
	4400/CHE/2013	27.9.2013	FI-1307801IN.0921-IN	2131600IN
	4397/CHE/2013	27.9.2013	FI-1307901.0922	2131601IN
Malaysia	PI2012000487	3.2.2012	FI-10014.0586-MY	2101356MY
	PI2011005420	10.11.2011	FI-10015.0587-MY	2101461MY
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
USA	11/667,826	15.11.2005	FI-3582.0192-US	2042135US
	12/196,681	22.8.2008	FI-3742.0305-US	2071260US
	12/275,472	21.11.2008	FI-3810.0358-US	2072219US
	12/628,669	1.12.2009	FI-3900.0423-US	2081899US
	12/700,252	4.2.2010	FI-3902.0425-US	2081886US
	12/699,369	3.2.2010	FI-3904.0427-US	2081840US
	12/694,918	27.1.2010	FI-3939.0454-US	2082316US
	13/024,705	10.2.2011	FI-3985.0486-US	2091774US
	12/887,878	22.9.2010	FI-4066.0537-US	2091434US
	13/401,081	21.2.2012	FI-10014.0586-US	2101356US
	13/297,051	15.11.2011	FI-10015.0587-US	2101461US
	13/288,088	3.11.2011	FI-10060.0625-US	2101556US
	13/431,443	27.3.2012	FI-10086.0646-US	2110212US
	13/433,743	29.3.2012	FI-10089.0649-US	2110213US
	13/667,910	2.11.2012	FI-10096.0656-US	2111457US
	13/673,151	9.11.2012	FI-10097.0657-US	2111485US
	13/766,163	13.2.2013	FI-10105.0664-US	2112006US

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USA	13/624,366	21.9.2012	FI-10106.0665-US	2110580US
	13/523,066	14.6.2012	FI-10112.0670-US	2110710US
	13/666,436	1.11.2012	FI-10117.0675-US	2111603US
	13/401,328	21.2.2012	FI-11022.0692-US	2101893US
	13/543,331	6.7.2012	FI-11049.0713-US	2111042US
	13/622,688	19.9.2012	FI-11077.0733-US	2121018US
	13/728,319	27.12.2012	FI-11078.0734-US	2111960US
	14/180,779	14.2.2014	FI-12001.0749-US	2120952US
	14/079,126	13.11.2013	FI-12002.0750-US	2121148US
	13/551,342	17.7.2012	FI-12005.0753-US	2120599US/CIP
	14/086,559	21.11.2013	FI-12024.0768-US	2121793US
	14/253,275	15.4.2014	FI-12031.0769-US	2122031US
	14/211,048	14.3.2014	FI-12065.0794-US	2130141US
	14/255,212	17.4.2014	FI-12117.0833-US	2130395US
	14/317,567	27.6.2014	FI-12145.0849-US	2130670US
	14/540,647	13.11.2014	FI-1305301.0888-US	2131709US
	14/547,760	19.11.2014	FI-1306601CH.0885-US	2131966US
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	13/102,564	6.5.2011	FI-4062.0533-US	2100194US
	13/408,823	29.2.2012	FI-10071.0635-US	2110210US
	13/434,243	29.3.2012	FI-10072.0636-US	2110211US
	13/737,639	9.1.2013	FI-10093.0653-US	2111885US
	13/451,144	19.4.2012	FI-10107.0666-US	2110631US
	13/431,518	27.3.2012	FI-10120.0678-US	2110577US
	13/441,423	6.4.2012	FI-11024.0694-US	2110482US
	13/590,708	21.8.2012	FI-11027.0697-US	2111162US
	13/529,604	21.6.2012	FI-11058.0722-US	2111686US
	13/749,403	24.1.2013	FI-11059.0723-US	2112075US
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	13/741,661	15.1.2013	FI-11079.0735-US	2111897US
	13/909,607	4.6.2013	FI-11090.0737-US	2120498US
	13/890,481	9.5.2013	FI-11092.0739-US	2120162US
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	13/887,113	3.5.2013	FI-12016.0760-US	2120676US
	14/068,665	31.10.2013	FI-12017.0761-US	2121051US
	14/080,337	14.11.2013	FI-12034.0772-US	2121546US
	14/020,533	6.9.2013	FI-12039.0777-US	2121438US
	14/172,257	4.2.2014	FI-12075.0799-US	2122371US
	14/172,280	4.2.2014	FI-12080.0804-US	2130042US

Country	Appln No.	Filing Date Day/Month/Year	Reference No.	Case No.
USA	14/508,467	7.10.2014	FI-12082.0806-US	2130551US
	14/564,766	9.12.2014	FI-12109.0825-US	2131461US
	14/565,153	9.12.2014	FI-12110.0826-US	2131543US
	14/337,558	22.7.2014	FI-12125.0841-US	2130711US
	14/522,223	23.10.2014	FI-12157.0852-US	2131410US
	14/478,140	5.9.2014	FI-12159.0854-US	2131492US
	14/559,222	3.12.2014	FI-12160.0855-US	2131397US
	14/567,461	11.12.2014	FI-12161.0856-US	2130928US
	14/571,710	16.12.2014	FI-12162.0857-US	2131864US
	14/458,336	13.8.2014	FI-1301501.0865-US	2131091US
	14/489,203	17.9.2014	FI-1302201.0868-US	2130712US
	14/326,995	9.7.2014	FI-1302501.0869-US	2131092US
	14/534,752	6.11.2014	FI-1307301.0907-US	2131756US
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	14/541,721	14.11.2014	FI-1317101.0949-US	2140660US
	29/465,327	27.8.2013	FI-0374.0700-US	4130006US
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