

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Mario HOERNICKE</td> <td>03/11/2013</td> </tr> <tr> <td>Rainer DRATH</td> <td>03/11/2013</td> </tr> <tr> <td>Ben SCHROETER</td> <td>03/11/2013</td> </tr> <tr> <td>Kurt LANGER</td> <td>03/12/2013</td> </tr> <tr> <td>Jarkko LALU</td> <td>04/24/2013</td> </tr> </tbody> </table>		Name	Execution Date	Mario HOERNICKE	03/11/2013	Rainer DRATH	03/11/2013	Ben SCHROETER	03/11/2013	Kurt LANGER	03/12/2013	Jarkko LALU	04/24/2013
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Rainer DRATH	03/11/2013												
Ben SCHROETER	03/11/2013												
Kurt LANGER	03/12/2013												
Jarkko LALU	04/24/2013												
RECEIVING PARTY DATA													
Name:	ABB TECHNOLOGY AG												
Street Address:	Affoltemstrasse 44												
City:	Zurich												
State/Country:	SWITZERLAND												
Postal Code:	CH-8050												
PROPERTY NUMBERS Total: 1													
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13781229</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13781229								
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Application Number:	13781229												
CORRESPONDENCE DATA													
Fax Number:	7038362021												
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
Phone:	703-836-6620												
Email:	Ashley.Fernandez@bipc.com												
Correspondent Name:	BUCHANAN, INGERSOLL & ROONEY PC												
Address Line 1:	POST OFFICE BOX 1404												
Address Line 4:	ALEXANDRIA, VIRGINIA 22313-1404												
ATTORNEY DOCKET NUMBER:	1034193-000346												
NAME OF SUBMITTER:	Patrick C. Keane												
Signature:	/Patrick C. Keane/												

OP \$40.00 13781229

Date:

05/09/2013

Total Attachments: 4

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COMBINED DECLARATION AND ASSIGNMENT (JOINT)

As one of the below named inventors, I hereby declare that this Declaration is directed to:

- (1) U.S. application number 13/781,229 filed on February 28, 2013, entitled METHOD FOR DEBUGGING OF PROCESS OR MANUFACTURING PLANT SOLUTIONS COMPRISING MULTIPLE SUB-SYSTEMS; or
- (2) the attached application entitled METHOD FOR DEBUGGING OF PROCESS OR MANUFACTURING PLANT SOLUTIONS COMPRISING MULTIPLE SUB-SYSTEMS.

DECLARATION

As one of the below named inventors, I further declare that:

The above-identified application was made or authorized to be made by me.

I believe that I am an original joint inventor of a claimed invention in the application.

I have reviewed and understand the contents of the above-identified application, including the claims.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

ASSIGNMENT

THIS ASSIGNMENT, by the undersigned inventor (hereinafter referred to as "the Assignor"), respectively, witnesseth:

WHEREAS, the Assignor has invented certain new and useful improvements set forth in the application for Letters Patent of the United States identified above;

WHEREAS, ABB Technology AG, a corporation duly organized under and pursuant to the laws of Switzerland and having a principal place of business at Affolternstr. 44, 8050 Zurich, Switzerland (hereinafter referred to as "the Assignee"), is desirous of acquiring the entire right, title, and interest in and to said inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications, including provisional applications for Letters Patent of the United States or other countries claiming priority to said application, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon.

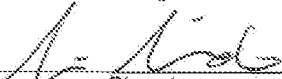

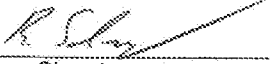
NOW, THEREFORE, for good and sufficient consideration, the *receipt* of which is hereby acknowledged, the Assignor has sold, assigned, transferred, and set over, and by these presents does sell, assign, transfer, and set over, unto the Assignees, its successors, legal representatives, and assigns the entire right, title, and interest in and to the above-mentioned inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications for Letters Patent of the United States or other countries claiming priority to said applications, and any and all Letters Patent or Patents of the United States of

America and all foreign countries that may be granted therefor and thereon, and in and to any and all applications claiming priority to said applications, divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and behoof and the use and behoof of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignor had this sale and assignment not been made;

AND for the same consideration, the Assignor hereby covenants and agrees to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignor is the sole and lawful owner of the entire right, title, and interest in and to the inventions set forth in said applications and said applications, including provisional applications, above-mentioned, and that the same are unencumbered, and that the Assignor has good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, the Assignor hereby covenants and agrees to and with the Assignee, its successors, legal representatives, and assigns that the Assignor will, whenever counsel of the Assignee, or the counsel of its successors, legal representatives, and assigns, shall advise that any proceeding in connection with said inventions or said applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said inventions in any country, including interference proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-in-part of any applications for Letters Patent or Patents, or any reissue or extension of any Letters Patent or Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Letters Patent or Patents for said inventions, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns;

AND the Assignor hereby requests the Commissioner of Patents to issue any and all said Letters Patent of the United States to the Assignee as the Assignee of said inventions, the Letters Patent to be issued for the sole use and behoof of the Assignee, its successors, legal representatives, and assigns.

<u>11.3.2013</u> Date	Mario HOERNICKE Name	 Signature
<u>11.3.2013</u> Date	Rainer DRATH Name	 Signature
<u>11.3.2013</u> Date	Ben SCHROETER Name	 Signature
 Date	Kurt LANGER Name	 Signature
 Date	Jarkko LALU Name	 Signature

America and all foreign countries that may be granted therefor and thereon, and in and to any and all applications claiming priority to said applications, divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and behoof and the use and behoof of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignor had this sale and assignment not been made;

AND for the same consideration, the Assignor hereby covenants and agrees to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignor is the sole and lawful owner of the entire right, title, and interest in and to the inventions set forth in said applications and said applications, including provisional applications, above-mentioned, and that the same are unencumbered, and that the Assignor has good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, the Assignor hereby covenants and agrees to and with the Assignee, its successors, legal representatives, and assigns that the Assignor will, whenever counsel of the Assignee, or the counsel of its successors, legal representatives, and assigns, shall advise that any proceeding in connection with said inventions or said applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said inventions in any country, including interference proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-in-part of any applications for Letters Patent or Patents, or any reissue or extension of any Letters Patent or Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Letters Patent or Patents for said inventions, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns;

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..... Date	Mario HOERNICKE Name Signature
..... Date	Rainer DRATH Name Signature
..... Date	Ben SCHROETER Name Signature
12.03.2013 Date	Kurt LANGER Name Signature
..... Date	Jarkko LALU Name Signature

America and all foreign countries that may be granted therefor and thereon, and in and to any and all applications claiming priority to said applications, divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and behoof and the use and behoof of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignor had this sale and assignment not been made;

AND for the same consideration, the Assignor hereby covenants and agrees to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignor is the sole and lawful owner of the entire right, title, and interest in and to the inventions set forth in said applications and said applications, including provisional applications, above-mentioned, and that the same are unencumbered, and that the Assignor has good and full right and lawful authority to sell and convey the same in the manner herein set forth;

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AND the Assignor hereby requests the Commissioner of Patents to issue any and all said Letters Patent of the United States to the Assignee as the Assignee of said inventions, the Letters Patent to be issued for the sole use and behoof of the Assignee, its successors, legal representatives, and assigns.

_____	Mario HOERNICKE	_____
Date	Name	Signature
_____	Rainer DRATH	_____
Date	Name	Signature
_____	Ben SCHROETER	_____
Date	Name	Signature
_____	Kurt LANGER	_____
Date	Name	Signature
24/4/2013	Jarkko LALU	
Date	Name	Signature