

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>Zhao Wang</td> <td>12/13/2012</td> </tr> <tr> <td>Bernhard Deck</td> <td>12/13/2012</td> </tr> <tr> <td>Jukka Kinnunen</td> <td>12/17/2012</td> </tr> </tbody> </table>		Name	Execution Date	Zhao Wang	12/13/2012	Bernhard Deck	12/13/2012	Jukka Kinnunen	12/17/2012
Name	Execution Date								
Zhao Wang	12/13/2012								
Bernhard Deck	12/13/2012								
Jukka Kinnunen	12/17/2012								
RECEIVING PARTY DATA									
Name:	ABB RESEARCH LTD								
Street Address:	Affolternstrasse 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>13814567</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13814567				
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Application Number:	13814567								
CORRESPONDENCE DATA									
Fax Number:	4403915101								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
Phone:	440-391-5100								
Email:	carole@driggslaw.com								
Correspondent Name:	Driggs, Hogg, Daugherty & Del Zoppo Co.,								
Address Line 1:	38500 CHARDON ROAD								
Address Line 2:	DEPT. ABB								
Address Line 4:	WILLOUGHBY HILLS, OHIO 44094								
ATTORNEY DOCKET NUMBER:	CN10053USPCT_ABA107448USP								
NAME OF SUBMITTER:	Anthony M. Del Zoppo, III								
<p>Total Attachments: 4</p> <p>source=CN10053USPCT_ABA107448USPCT_PatentAssignment#page1.tif</p> <p>source=CN10053USPCT_ABA107448USPCT_PatentAssignment#page2.tif</p> <p>source=CN10053USPCT_ABA107448USPCT_PatentAssignment#page3.tif</p> <p>source=CN10053USPCT_ABA107448USPCT_PatentAssignment#page4.tif</p>									

OP \$40.00 13814567

PATENT

DOCKET NO. CN-10053-US-PCT (ABA107448USPCT)

PATENT ASSIGNMENT

For and in consideration of good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, the undersigned acknowledge their prior and ongoing obligation to sell, assign, and transfer, and agree to sell, assign, and transfer the entire world wide right, title and interest for the United States and all foreign countries, in and to any and all inventions and improvements conceived during and within the scope of their employment, and further acknowledge that they have sold, assigned, and transferred, and hereby sell, assign, and transfer, unto:

ABB RESEARCH LTD.
Affolternstrasse 44
CH-8050 Zurich, Switzerland

a corporation of Switzerland and ABB RESEARCH LTD. desires to acquire all right, title, and interest, in and to the certain inventions (identified below), applications, and any United States and foreign patents to be obtained therefor relating to:

Title of Invention for United States Patent

A COMMUNICATION METHOD AND APPARATUS OF NETWORK MANAGEMENT SYSTEM

as set forth in United States Patent Application executed by the undersigned on the date indicated by their signatures below, and further identified by **Attorney Docket Number** CN-10053-US-PCT ()

executed concurrently herewith;

for and to said United States Patent Application including any and all divisions or continuations thereof and in and to any and all Patent of the United States and foreign patents and all rights of priority to be obtained therefor which may issue on any such application or for said invention therein disclosed, including any and all reissues or extensions thereof, to be held and enjoyed by, its successors, legal representatives and assigns to the full end of the term or terms for which any and all such Patent may be granted, as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made;

The undersigned hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all such Patents to ABB RESEARCH LTD., its successors and assigns, in accordance herewith;

The undersigned warrant and covenant that they have not executed and will not execute any document or instrument in conflict herewith;

The undersigned further covenant and agree that they, upon the request of ABB RESEARCH LTD., will execute and deliver any papers, make all rightful oaths, testify in any legal proceeding relating to said inventions and improvements, communicate to ABB RESEARCH LTD. all facts known to the undersigned relating to such inventions and improvements and the history thereof; and perform all other lawful acts deemed necessary or desirable by ABB RESEARCH LTD., and its legal representatives, to secure, maintain, and enforce patent protection for such inventions and improvements and for vesting title to such inventions and improvements in ABB RESEARCH LTD., and in particular to perfect title to said above-identified certain inventions and applications including divisions and

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PATENT
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continuations thereof, and any and all Patent which may be granted therefor or thereon, including reissues, extensions, or counterparts;

The undersigned hereby grant ABB RESEARCH LTD. and the firm of Driggs, Hogg, Daugherty & Del Zoppo Co., LPA the power to insert in this Assignment any further identification which may be necessary or desirable for recordation of this Assignment.

Signature: Zhao Wang Date: 2012-12-13
ZHAO WANG

Signature: _____ Date: _____
BERNHARD DECK

Signature: _____ Date: _____
JUKKA KINNUNEN

continuations thereof, and any and all Patent which may be granted therefor or thereon, including reissues, extensions, or counterparts;

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Signature: _____ Date: _____
ZHAO WANG

Signature: Bernhard Deck Date: 13.12.12
BERNHARD DECK

Signature: _____ Date: _____
JUKKA KINNUNEN

continuations thereof, and any and all Patent which may be granted therefor or thereon, including reissues, extensions, or counterparts;

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Signature: _____ Date: _____
ZHAO WANG

Signature: _____ Date: _____
BERNHARD DECK

Signature:  _____ Date: 17th dec 2012
JUKKA KINNUNEN