

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	NUNC PRO TUNC ASSIGNMENT								
EFFECTIVE DATE:	08/29/2006								
CONVEYING PARTY DATA									
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Ratan Das</td><td>08/29/2006</td></tr><tr><td>Sethuraman Ganesan</td><td>08/29/2006</td></tr><tr><td>John M. Peterson</td><td>08/29/2006</td></tr></tbody></table>	Name	Execution Date	Ratan Das	08/29/2006	Sethuraman Ganesan	08/29/2006	John M. Peterson	08/29/2006	
Name	Execution Date								
Ratan Das	08/29/2006								
Sethuraman Ganesan	08/29/2006								
John M. Peterson	08/29/2006								
RECEIVING PARTY DATA									
Name:	ABB Technology AG								
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City:	Zurich								
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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>PCT Number:</td><td>US0633515</td></tr></tbody></table>	Property Type	Number	PCT Number:	US0633515					
Property Type	Number								
PCT Number:	US0633515								
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NAME OF SUBMITTER:	Debra Rietze								

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PATENT
REEL: 021751 FRAME: 0707

Total Attachments: 3

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PATENT

REEL: 021751 FRAME: 0708

PCT Application No.: PCT/US2006/033515
Attorney Docket No.: E20050190

NUNC PRO TUNC ASSIGNMENT

This Assignment is effective August 29, 2006.

ASSIGNMENT, by Ratan Das, Sethuraman Ganesan, and John M. Peterson, residing at 9 Peachwood Drive, Wilkes Barre, PA 18702; 1063 Mosser Road, Apt. X102, Breinigsville, PA 18031 and 810 Northridge Drive, Jeffersonville, PA 19403, respectively (hereinafter referred to as "the Assignor"), have invented certain new and useful improvements in the application for Letters Patent of the United States entitled:

METHOD AND SYSTEM FOR THROUGH FAULT DETECTION IN ELECTRICAL DEVICES

which application is:

- (1) ☐ a provisional application
- (a) ☐ having Serial No. _____, filed on _____
- (b) ☐ to be filed with this Assignment; or
- (2) ☒ a non-provisional application
- (a) ☒ having Serial No. PCT US2006/033515, filed on August 29, 2006 and claiming priority from U.S. Provisional Application No. 60/712,735 filed on August 30, 2005;
- (b) ☐ having an oath or declaration executed on the same date as the execution date of this Assignment which is prior to the filing of the U.S. patent application for this invention.

For good and sufficient consideration, the receipt of which is hereby acknowledged, each Assignor agrees to assign, and hereby does assign, transfer and set over to ABB Technology AG, a corporation duly organized under the laws of Switzerland, and having a principal place of business at Affolternstrasse 44, CH-8050 Zurich, Switzerland, (hereinafter referred to as the Assignee) his or her entire right, title and interest in the invention or inventions as represented by the application for patent identified herein (the "Application") in the United States, its territories, dependencies and possessions, and for all other national jurisdictions and international entities that have the power to grant patents, wherever situated, including without limitation all applications for patent which claim priority to and/or the benefit of the subject matter disclosed in the Application for patent identified herein, including any utility application and/or design application, as well as any continuation application, divisional application, continuation-in-part application, reissue application, reexamination application, patent interference proceeding, and any foreign national application and/or any application filed or to be filed under a patent treaty, and any Letters Patent which may be granted therefor in any jurisdiction.

PCT Application No.: PCT/US2006/033515
Attorney Docket No.: E20050190

Each Assignor agrees to execute all papers and documents and perform any act which maybe necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

Each Assignor agrees to perform all affirmative acts which may be necessary to obtain a grant of a valid United States Patent to the Assignee.

Each Assignor agrees to and with the Assignee, its successors, legal representatives, and assigns that the Assignors 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.

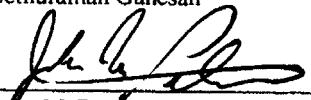
Each Assignor hereby authorizes and request the attorneys of the ABB Inc. Intellectual Property Law Department located in Wickliffe, OH to insert in this Assignment any further identification that my be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office or with the rules of any other national or international Patent Office for recordation of this document or a true copy thereof.

*****Signature of Each Assignor Appears On The Following Page(s)*****

PCT Application No.: PCT/US2006/033515
Attorney Docket No.: E20050190

Signature of Assignor: 
Ratan Das

Signature of Assignor: 
Sethuraman Ganesan

Signature of Assignor: 
John M. Peterson