

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

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>Frank BRENK</td> <td>11/21/2011</td> </tr> <tr> <td>Franz-Otto WITTE</td> <td>11/07/2011</td> </tr> <tr> <td>Wolfram STREPP</td> <td>11/07/2011</td> </tr> </tbody> </table>		Name	Execution Date	Frank BRENK	11/21/2011	Franz-Otto WITTE	11/07/2011	Wolfram STREPP	11/07/2011		
Name	Execution Date										
Frank BRENK	11/21/2011										
Franz-Otto WITTE	11/07/2011										
Wolfram STREPP	11/07/2011										
RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>ABB AG</td> </tr> <tr> <td>Street Address:</td> <td>Kallstadter Strasse 1</td> </tr> <tr> <td>City:</td> <td>Mannheim</td> </tr> <tr> <td>State/Country:</td> <td>GERMANY</td> </tr> <tr> <td>Postal Code:</td> <td>D-68309</td> </tr> </table>		Name:	ABB AG	Street Address:	Kallstadter Strasse 1	City:	Mannheim	State/Country:	GERMANY	Postal Code:	D-68309
Name:	ABB AG										
Street Address:	Kallstadter Strasse 1										
City:	Mannheim										
State/Country:	GERMANY										
Postal Code:	D-68309										
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>13297022</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13297022						
Property Type	Number										
Application Number:	13297022										
CORRESPONDENCE DATA											
Fax Number: (703)836-7419 Phone: 7038366620 Email: beverly.caraway@bipc.com <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i> Correspondent Name: Buchanan Ingersoll & Rooney P.C. Address Line 1: P.O. Box 1404 Address Line 4: Alexandria, VIRGINIA 22313-1404											
ATTORNEY DOCKET NUMBER:	134193-000268										
NAME OF SUBMITTER:	Patrick C. Keane										
Total Attachments: 4 source=ASG#page1.tif source=ASG#page2.tif source=ASG#page3.tif source=ASG#page4.tif											

OP \$40.00 13297022

ASSIGNMENT

(JOINT)

THIS ASSIGNMENT, by (1) Frank BRENK, (2) Franz-Otto WITTE, and (3) Wolfram STREPP, residing at (1) Hausach, GERMANY; (2) Teningen, GERMANY; and (3) Freiburg, GERMANY (hereinafter referred to as "the Assignors"), respectively, witnesseth:

WHEREAS, the Assignors have invented certain new and useful improvements in METHOD AND DEVICE FOR INSULATION MONITORING OF NON-GROUNDED ELECTRICAL DC AND AC GRIDS set forth in an application for Letters Patent of the United States, which is a

- (1) ☐ provisional application
 - (a) ☐ bearing Application No. _____, and filed on _____;
 - (b) ☐ to be filed herewith; or
- (2) ☒ non-provisional application
 - (a) ☐ bearing Application No. 13/297,022, and filed on November 15, 2011;
 - (b) ☐ having an oath or declaration executed on even date herewith prior to filing of application;
 - (c) ☐ having an oath or declaration executed on a different date than this Assignment; and

WHEREAS, ABB AG, a corporation duly organized under and pursuant to the laws of GERMANY and having a principal place of business at Kallstadter Strasse 1, D-68309 Mannheim, GERMANY (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 Assignors have sold, assigned, transferred, and set over, and by these presents do sell, assign, transfer, and set over, unto the Assignee, 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 Assignors had this sale and assignment not been made;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignors are the sole and lawful owners 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 Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

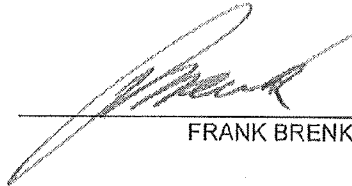
AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns that the Assignors will, whenever

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;

AND the Assignors hereby authorize and request the attorneys of Buchanan Ingersoll & Rooney PC to insert in the spaces provided above the title of the invention, filing date, application number, and attorney's docket number of said application when known.

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

DATE 21/11/2011


FRANK BRENK

DATE _____

FRANZ-OTTO WITTE

DATE _____

WOLFRAM STREPP

ASSIGNMENT

(JOINT)

THIS ASSIGNMENT, by (1) Frank BRENK, (2) Franz-Otto WITTE, and (3) Wolfram STREPP, residing at (1) Hausach, GERMANY; (2) Teningen, GERMANY; and (3) Freiburg, GERMANY (hereinafter referred to as "the Assignors"), respectively, witnesseth:

WHEREAS, the Assignors have invented certain new and useful improvements in METHOD AND DEVICE FOR INSULATION MONITORING OF NON-GROUNDED ELECTRICAL DC AND AC GRIDS set forth in an application for Letters Patent of the United States, which is a

- (1) ☐ provisional application
 - (a) ☐ bearing Application No. _____, and filed on _____;
 - (b) ☐ to be filed herewith; or
- (2) ☒ non-provisional application
 - (a) ☒ bearing Application No. 13/297,022, and filed on November 15, 2011;
 - (b) ☐ having an oath or declaration executed on even date herewith prior to filing of application;
 - (c) ☐ having an oath or declaration executed on a different date than this Assignment; and

WHEREAS, ABB AG, a corporation duly organized under and pursuant to the laws of GERMANY and having a principal place of business at Kallstadter Strasse 1, D-68309 Mannheim, GERMANY (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 Assignors have sold, assigned, transferred, and set over, and by these presents do sell, assign, transfer, and set over, unto the Assignee, 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 Assignors had this sale and assignment not been made;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignors are the sole and lawful owners 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 Assignors have 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 Assignors hereby covenant and agree 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;

AND the Assignors hereby authorize and request the attorneys of Buchanan Ingersoll & Rooney PC to insert in the spaces provided above the title of the invention, filing date, application number, and attorney's docket number of said application when known.

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

DATE _____

FRANK BRENK

DATE 7.11.2011 _____

Franz Otto Witte

FRANZ-OTTO WITTE

DATE 7.11.2011 _____

Wolfram Strepp

WOLFRAM STREPP