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jt: 43315-204115

10-24-05

To the Honorable Commissioner of Patents and Trademarks: Please Record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Murari Mohan SAHA  
Eugeniusz ROSOLOWSKI  
Jan IZYKOWSKI

Additional name of conveying party(ies) attached?  Yes  No

2. Name and address of receiving party(ies)

ABB AB

Street Address:

3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other - Change of Assignor

City: Västerås State/Country: SWEDEN

Zip: S-721 83

Execution Date: May 25, 2004 (M. Saha), May 26, 2004 (E. Rosolowski and J. Izykowski).

Additional Name(s) & address(es) attached?  Yes  No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application by the first named inventor is:

A. Patent Application No.(s)  
10/546,595

B. Patent No.(s)

Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning this document should be mailed:

\*26694\*  
26694

PATENT TRADEMARK OFFICE

Name: VENABLE

Address: P.O. Box 34385

City: Washington State: D.C. Zip: 20004-1601

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41) . . . . . \$ 40.00

- Enclosed
- Authorized to be charged to deposit account

8. Deposit account number:

22-0261

(Attach duplicate copy of this page if paying by deposit account)

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01 FC 8021 40.00 DA

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Eric J. Franklin, Reg. No.: 37,134  
Name of Person Signing

Signature

October 3, 2005  
Date

Total number of pages including cover sheet, attachments, and documents: 4

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

WHEREAS Murari Mohan SAHA, Värmlandsvägen 11, SE-722 44 VÄSTERÅS, Sweden; Eugeniusz ROSOŁOWSKI, Ul. Pilczycka 107/4, PL-54 150 WROCLAW, Poland; and Jan IZYKOWSKI, Ul. Damrota 46/3, PL-50306 WROCLAW, Poland, hereinafter (collectively) referred to as the assignor, have invented certain improvements relating to FAULT LOCATION USING MEASUREMENTS FROM TWO ENDS OF A LINE for which said assignor has caused an application for United States Letter Patent to be prepared,

- the inventor's declaration for said application being executed concurrently with the execution of this instrument;
- said application to be filed in the United States Patent and Trademark Office;
- said Non-Provisional application having been filed in the United States Patent and Trademark Office on \_\_\_\_\_, and given Application Number \_\_\_\_\_
- said application having been filed under the Patent Cooperation Treaty on 22 November 2002, and given Application No. PCT/SE02/02144 the United States of America having been designated.

AND WHEREAS            ABB AB  
                                 SE-721 83 Västerås  
                                 Sweden

hereinafter referred to as the assignees is desirous of acquiring the entire right, title and interest in and to said application, including any divisions and continuations thereof, and in and to said invention and any patents which may be granted therefore, including any renewals, reissues and prolongations thereof;

NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration paid by said assignee to said assignor, the receipt of which is hereby acknowledged, said assignor hereby assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the entire and exclusive right, title and interest in and to said invention and to said application, including any divisions and continuations thereof, and in any patents which may be granted therefor, including any renewals, reissues and prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said invention and said application, including any divisions and continuations thereof, and any patents which may be granted therefor, including any renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any such patents when granted, including any renewals, reissues and prolongations thereof, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said assignor might or could have held and enjoyed the same, if this assignment had not been made.

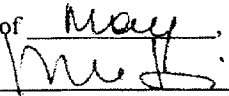
AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors or assigns, any acts relating to the obtaining or to the asserting of said patents, including any renewals, reissues and prolongations thereof.

AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent on said application, and on any divisions and continuations thereof, to said assignee, and said assignee's successors and assigns, in accordance herewith.

EXECUTED, this \_\_\_\_ day of \_\_\_\_\_, 2004

Signature: \_\_\_\_\_  
Name: Murari Mohan SAHA  
Address: Värmlandsvägen 11, SE-722 44 VÄSTERÅS, Sweden

EXECUTED, this 26 day of May, 2004

Signature:   
Name: Eugeniusz ROSOŁOWSKI  
Address: Ul. Pilczycka 107/4, PL-54 150 WROCLAW, Poland

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

WHEREAS Murari Mohan SAHA, Värmlandsvägen 11, SE-722 44 VÄSTERÅS, Sweden; Eugeniusz ROSOŁOWSKI, Ul. Pilszycka 107/4, PL-50150 WROCLAW, Poland; and Jan IZYKOWSKI, Ul. Damrota 463, PL-50150 WROCLAW, Poland, hereinafter (collectively) referred to as the assignor, have invented certain improvements relating to FAULT LOCATION USING MEASUREMENTS FROM TWO ENDS OF A LINE for which said assignor has caused an application for United States Letter Patent to be prepared,

- the inventor's declaration for said application being executed concurrently with the execution of this instrument;
- said application to be filed in the United States Patent and Trademark Office;
- said Non-Provisional application having been filed in the United States Patent and Trademark Office on \_\_\_\_\_, and given Application Number \_\_\_\_\_
- said application having been filed under the Patent Cooperation Treaty on 22 November 2002, and given Application No. PCT/SE02/02144 the United States of America having been designated.

AND WHEREAS            ABB AB  
                                 SE-721 83 Västerås  
                                 Sweden

hereinafter referred to as the assignees is desirous of acquiring the entire right, title and interest in and to said application, including any divisions and continuations thereof, and in and to said invention and any patents which may be granted therefor, including any renewals, reissues and prolongations thereof;

NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration paid by said assignee to said assignor, the receipt of which is hereby acknowledged, said assignor hereby assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the entire and exclusive right, title and interest in and to said invention and to said application, including any divisions and continuations thereof, and in any patents which may be granted therefor, including any renewals, reissues and prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said invention and said application, including any divisions and continuations thereof, and any patents which may be granted therefor, including any renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any such patents when granted, including any renewals, reissues and prolongations thereof, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said assignor might or could have held and enjoyed the same, if this assignment had not been made.

AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors or assigns, any acts relating to the obtaining or to the asserting of said patents, including any renewals, reissues and prolongations thereof.

AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent on said application, and on any divisions and continuations thereof, to said assignee, and said assignee's successors and assigns, in accordance herewith.

EXECUTED, this 25 day of MAY, 2004

Signature: Murari Mohan Saha  
Name: Murari Mohan SAHA  
Address: Värmlandsvägen 11, SE-722 44 VÄSTERÅS, Sweden

EXECUTED, this \_\_\_\_ day of \_\_\_\_\_, 2004

Signature: \_\_\_\_\_  
Name: Eugeniusz ROSOŁOWSKI  
Address: Ul. Pilszycka 107/4, PL-50150 WROCLAW, Poland

EXECUTED, this \_\_\_\_ day of \_\_\_\_\_, 2004

EXECUTED, this 26 day of May, 2004

Signature: 

Name: Jan IZYKOWSKI  
Address: Ul. Damrota 46/3, PL-50 306 WROCLAW, Poland