

FORM PTO-1595  
1-31-92  
ABRE-0520/B960550

06-16-1998



100738331

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

attached original documents or copy  
8661 - NRP

To The Honorable Commissioner of Patent  
thereof.

1. Name of conveying party(ies):

[1] KHOI VU [2] DAVID G. HART  
[3] DAMIR NOVOSEL

Additional name(s) of conveying party(ies)  
attached? ( ) YES (X) NO

3. Nature of Conveyance:

- (X) Assignment ( ) Merger  
( ) Security Agreement  
( ) Change of Name  
( ) Other:

Execution Date: October 31, 1997

2. Name and address of receiving party(ies):

Name: **ABB POWER T&D COMPANY INC.**

Internal Address: **1021 MAIN CAMPUS DRIVE  
Raleigh, North Carolina 27606**

Street Address: **SAME AS ABOVE**

City

State

ZIP

Additional name(s) & address attached? ( ) YES (X) 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 is:

A. Patent Application No.(s) **09/060,508**

B. Patent No.(s)

Additional numbers attached? ( ) YES (x) NO

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

Name: **ANTHONY J. ROSSI**

Internal Address: **WOODCOCK WASHBURN KURTZ  
MACKIEWICZ & NORRIS LLP**

One Liberty Place - 46th Floor  
Philadelphia, Pennsylvania 19103-7301

Street Address: **WOODCOCK WASHBURN KURTZ  
MACKIEWICZ & NORRIS LLP**

One Liberty Place - 46th Floor  
1650 Market Street  
Philadelphia, Pennsylvania 19103-7301

6. Total number of applications and patents involved: **1**

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

(X) Enclosed

( ) Authorized to be charged to Deposit Account  
Number 23-3050

8. Please charge any deficiency or credit any  
overpayment to Deposit Account Number 23-3050

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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.*

ANTHONY J. ROSSI/24,053

Name of Person Signing/Reg. No.

*Anthony J. Rossi*  
Signature

6-1-98  
Date

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

Mail documents to be recorded with required cover sheet information to:

06/15/1998 TT011 00000164 09060508

01 FC:581

40.00 DP

Commissioner of Patents and Trademarks

Box Assignments

Washington, D.C. 20231

PATENT

REEL: 9232 FRAME: 0629

PATENT  
Joint Inventors

DOCKET NO.: ABRE-0520/B960550/TNPALP

(Pending Application;  
Serial No. Unknown)

A S S I G N M E N T

WHEREAS, we, KHOI Vu residing at 515 - S. Coalport Drive Apex, North Carolina 27502, DAVID G. HART residing at 2804 Isabella Drive, Raleigh, North Carolina 27603 and DAMIR NOVOSEL residing at 107 E. Skyhawk Drive, Cary, North Carolina 27513, hereinafter referred to as the assignors, are the joint inventors of certain inventions or improvements for which we have made application for Letters Patent to the United States, identified as Case No. ABRE-0520/B960550/TNPALP, entitled PROTECTIVE RELAY WITH IMPROVED, SUB-WINDOW COSINE FILTER; and

WHEREAS, ABB Power T&D Company Inc. hereinafter referred to as the assignee, of 1021 Main Campus Drive, Raleigh, North Carolina 27606, a corporation of Delaware, is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries:

NOW, THEREFORE, for and in consideration of my employment by said assignee, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said assignors, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to said assignee, the entire right, title and interest in and to said inventions or improvements and said application and any and all continuations, divisions and renewals of and substitutes for said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, and assign to and authorize said assignee, to file in our names applications for Letters Patent in all countries, the same to be held and enjoyed by said assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

AND we hereby covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said

**PATENT**  
**Joint Inventors**

inventions or improvements, said application and said Letters Patent to said assignee, its successors, assigns, nominees, or legal representatives, and each of us agrees to communicate to said assignee or to its nominee all known facts respecting said inventions or improvements, said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries.

AND we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to said assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

We further authorize and direct our attorneys to insert below\* the serial number and filing date of said application now identified as Case No. **ABRE-0520/B960550/TNPALP** as soon as the same shall have been made known to them by the United States Patent Office.

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

Khoi Vu (L.S.)  
KHOI VU

David G. Hart (L.S.)  
DAVID G. HART

Damir Novosel (L.S.)  
DAMIR NOVOSEL

PATENT  
Joint Inventors

[WHERE ALL INVENTORS SIGN BEFORE THE SAME NOTARY:]

North Carolina :  
COUNTY OF Wake : SS

On this 21st day of October, 1997, before me personally came the above named Khoi Vu, David G. Hart and Damir Novosel to me personally known and known to me to be the same individuals who executed the foregoing assignment, and who acknowledged to me that they executed the same of their own free will for the use and purposes therein set forth.

Jane P. Warren  
Notary Public

[WHERE INVENTORS SIGN BEFORE SEPARATE NOTARIES:]

\_\_\_\_\_  
COUNTY OF \_\_\_\_\_ : SS

On this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, before me personally came the above named Khoi Vu to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

\_\_\_\_\_  
Notary Public

PATENT  
Joint Inventors

\_\_\_\_\_: SS  
COUNTY OF \_\_\_\_\_:

On this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_, before me personally came the above named David G. Hart to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

\_\_\_\_\_  
Notary Public

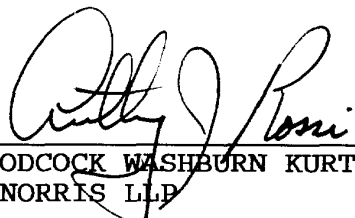
\_\_\_\_\_: SS  
COUNTY OF \_\_\_\_\_:

On this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_, before me personally came the above named Damir Novosel to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

\_\_\_\_\_  
Notary Public

\*The above assignment covers application Serial No. 09/ 060,508 \_\_\_\_\_, filed on April 15 \_\_\_\_\_, 1998.

The above insertion made by me this 1st day of June \_\_\_\_\_, 1998.

  
\_\_\_\_\_  
of WOODCOCK WASHBURN KURTZ MACKIEWICZ  
& NORRIS LLP