| Mar-11-04 02:13pm From-W | OODCOCK WASHBURN 33 | +2155683439 T-009 P.02/03 F-290 |
|---|---------------------------------------|--|
| | RECORDATION | FORM COVER SHEET |
| | | Y - ABDT-0582/B030080 |
| To The Honorable Commission | ner of Patents and Trademarks. | Please record the attached original documents or copy thereof. 2. Name and address of receiving party(ies) |
| 1. Name of conveying party() | es): | 2. Name and address of receiving party(ies) |
| | | Name: ABB INC. |
| Karen J. Smiley | 12/4/2003 Date of Execution | 1 |
| First Assignor | Date of Presentation | Street Address: Centennial Campus -NCSU 1021 Main Campus Drive |
| Thomas E. Long | 1 <u>1/26/2003</u> | 1071 Main Cambra prive |
| Second Assignor | Date of Execution | Ciry: Raleigh |
| David N. Cow | 11/24/2003 | |
| David N. Cox Thud Assignor | Date of Execution | State North Carolina ZIP 27606 |
| Tutta Vaziguor | | Additional name(s) & address attached? ☐ YES ☒ NO |
| | Date of Execution | 3. Nature of Conveyance (check only one): |
| Fourth Assignor | NATE OF EVENTUOR | |
| | | New Assignment |
| Fifth Assignor | Date of Execution | Change of Name Other: |
| | | |
| Sixth Assignor | Date of Execution | |
| | | |
| Additional name(s) of conveying p | arty(iea) atached? 🔲 YES 🔯 NO | |
| | | |
| | | |
| | | OD law of progration of application to which assignment refers: |
| 4. Identification of Application number(s), patent number(s) | | OR date of execution of application to which assignment refers: Date application was signed by the first |
| Application Nos.: Patent Nos.: | | named executing inventor |
| · | | |
| 10/699,468 | | |
| | | (Fill-in this date only if assignment is filed |
| | | together with a new application) |
| | | |
| 5. Name and address of party to whom correspondence | | 6. Total number of applications and patents involved: 1 |
| concerning documents show | TIT DE NIUDAN | 7. Total fee (37 CFR 3.41): \$40.00 |
| Name: Frank T. Carroll, Esq. | | |
| WOODCOCK WASHBUL | SN TTL | Authorized to be charged to Deposit Account |
| One Liberty Place - 46th Floor Philadelphia, Pennsylvania 19103-7301 | | 1 AT 12 2050 |
| 215-568-3100 | | 8. Please charge any deficiency or credit any overpayment to |
| | | Deposit Account Number 23-3050 |
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| 9. Statement and signatur | C. | formation is true and correct and any attached copy is a true copy of the |
| To the best of my knowle | uge and pettej, the jove50008 of | March 11, 2007 |
| original document. | No. 42,392 | Signature Date |
| Name of Person Signing/ | Reg. No | Signature March 11, 3007 Date Signature |
| | I – amber of pages including cov | ver sheet, assignment document and additional pages attached thereto: |
| 1 | | |
| Mari documents to be recorded | with required cover sheet information | to and the second secon |
| Wari docometres in oc recorder | Mail Stor | p Assignment Recordation Services Commissioner for Patents |
| | | P A Box 1450 |
| 1 | · · | Alexandria, VA 22313-1450 |

PATENT_ 700071513 REEL: 014418 FRAME: 0028 12:14pm

DOCKET NO.: ABDT-0582/B030080

PATENT Joint Inventors

(Pending Application; Serial No. Known)

ASSIGNMENT

WHEREAS, we Karen J. Smiley, Thomas E. Long, David N. Cox, hereinafter referred to as the assignors, residing respectively at 4515 Johns Court, Benson, North Carolina 27504; 1500 River Mill Drive, Unit 301, Wake Forest, North Carolina 27587; 4508 Wellington Down, Raleigh, North Carolina 27613 are the joint inventors of certain inventions or improvements for which we have made application for Letters Patent to the United States, identified as Serial No. 10/699,468, filed October 31, 2003, entitled METHOD FOR EVALUATING A TRANSFORMER DESIGN; and

WHEREAS, ABB INC., hereinafter referred to as the assignce, of Centennial Campus - NCSU, 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 our 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 acknowledged, we, the said assign, transfer and set over to said assignee, the entire right, title 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 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

PATENT
RECORDED: 03/11/2004 REEL: 014418 FRAME: 0029