

10-18-2002

MRD 10/15
ABME-0787/E20010190

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102252758

To The Honorable Commissioner of Patents and Trademarks

Attached original documents or copy thereof.

1. Name of conveying party(ies):

Waymon A. Melvin, Jr.

August 12, 2002

First Assignor

Date of Execution

Lars A. Lindqvist

August 12, 2002

Second Assignor

Date of Execution

Charles Cunningham, Jr.

August 12, 2002

Third Assignor

Date of Execution

Michael A. Murphy

August 12, 2002

Fourth Assignor

Date of Execution

Kenneth C. Shuey

August 12, 2002

Fifth Assignor

Date of Execution

Sixth Assignor

Date of Execution

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

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

Name: ABB Inc.

Street Address: 501 Merritt 7

City: Norwalk

State Connecticut

ZIP 06856

Additional name(s) & address attached? () YES (x) NO

3. Nature of Conveyance (check only one):

(x) New Assignment

() Merger

() License Agreement

() Security Agreement

() Change of Name

() Other:

() Cross-reference of Assignment filed in United States

Application No. / , recorded on at

Reel No. and Frame No.

4. Identification of Application number(s), patent number(s) OR date of execution of application to which assignment refers:

Application Nos.: 10/217,397

Patent Nos.:

Date application was signed by the first
named executing inventor(Fill-in this date only if assignment is
filed together with a new application)5. Name and address of party to whom correspondence
concerning documents should be mailed:

Name: Steven B. Samuels

WOODCOCK WASHBURN LLP

One Liberty Place - 46th Floor

Philadelphia, Pennsylvania 19103-7301

215-568-3100

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 23-30508. Please charge any deficiency or credit any
overpayment to Deposit Account Number 23-3050

DO NOT USE THIS SPACE

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.

Steven B. Samuels/Reg. No. 37,711

Name of Person Signing/Reg. No.

Signature

Date

Total number of pages including cover sheet, assignment document and additional pages attached thereto: 7

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

Commissioner of Patents and Trademarks
Box Assignments
Washington, D.C. 20231

10/17/2002 GTQM11 00000132 10217397

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40.00 DP

PATENT

REEL: 013382 FRAME: 0527

**(Pending Application;
Serial No. Unknown)****ASSIGNMENT**

WHEREAS, we **Waymon A. Melvin, Jr.; Lars A. Lindqvist; Charles Cunningham, Jr.; Michael A. Murphy; Kenneth C. Shuey**, hereinafter referred to as the assignors, residing respectively at **4148 Landover Lane, Raleigh, North Carolina 27616; 105 Thorncrest Drive, Apex, North Carolina 27539; 4500 Wingate Drive, Raleigh, North Carolina 27609; 7329 Barberry Court, Raleigh, North Carolina 27615; and 4516 Laid Back Lane, Zebulon, North Carolina 27597** 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. **ABME-0787/E20010190/AICMEL**, entitled **ELECTRONIC METER WITH ENHANCED THERMALLY MANAGED COMMUNICATIONS SYSTEMS AND METHODS**; and

WHEREAS, **ABB INC.**, hereinafter referred to as the assignee, of **501 Merritt 7, Norwalk, Connecticut 06856**, 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 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 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.

AND this Assignment may be executed in multiple counterparts, each of which shall be deemed to be an original of this Assignment. Additionally, we hereby authorize our attorneys to collect the signature pages of each executed counterpart and to attach those signature pages to a single copy of this instrument, which single copy and attached signature pages together shall constitute an original of this Assignment.

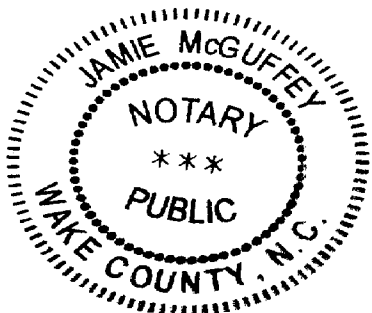
We further authorize and direct our attorneys to insert below* the serial number and filing date of said application now identified as Case No. **ABME-0787/E20010190/AICMEL** as soon as the same shall have been made known to them by the United States Patent Office.

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

8-12-02 _____ Waymon A. Melvin, Jr. (L.S.)
Date _____ Waymon A. Melvin, Jr.

STATE OF North Carolina :
 : SS
COUNTY OF Wake :

On this 12th day of August, year of 2002,
before me personally came the above named Waymon A. Melvin, Jr.
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.



Jamie McGuffey
Notary Public

- 2 -

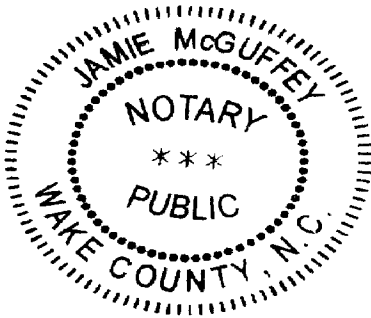
my Commission expires: 01/02/06

8-12-02
Date

Lars A. Lindqvist (L.S.)
Lars A. Lindqvist

STATE OF North Carolina :
COUNTY OF Wake : SS

On this 12th day of August, year of 2002,
before me personally came the above named Lars A. Lindqvist
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.



Jamie McGuffey
Notary Public

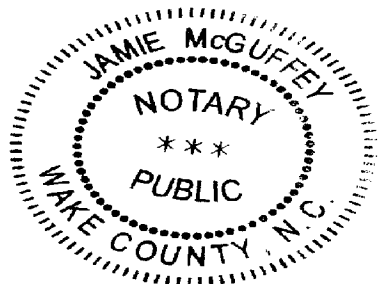
my commission expires : 01/02/06

Aug, 12, 2002
Date

Charles Cunningham, Jr. (U.S.)
Charles Cunningham, Jr.

STATE OF North Carolina :
: SS
COUNTY OF Wake :

On this 12th day of August, year of 2002,
before me personally came the above named Charles Cunningham, Jr.
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.

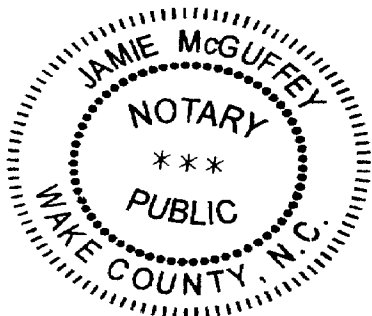


Jamie McGuffey
Notary Public

my commission expires: 01/02/06

8/12/02
DateMichael A. Murphy (L.S.)
Michael A. MurphySTATE OF North Carolina :
: SS
COUNTY OF Wake :

On this 12th day of August, year of 2002,
before me personally came the above named Michael A. Murphy
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.

Jamie McGuffey
Notary Publicmy commission expires: 01/02/06

Date

8/12/02Kenneth C. Shuey

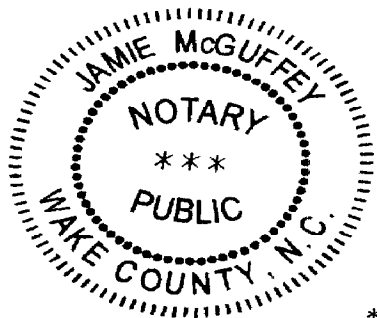
(L.S.)

STATE OF North Carolina :

: SS

COUNTY OF Wake :

On this 12th day of August, year of 2002,
 before me personally came the above named Kenneth C. Shuey
 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.

Jamie McGuffey

Notary Public

my commission expires: 01/02/06

*The above assignment covers application Serial No.
10/217,397, filed on August 13, year of 2002.

The above insertion made by me this 2nd day of
October, year of 2002.

Steven B. Samuelsof **WOODCOCK WASHBURN LLP**Name: Steven B. SamuelsRegistration No. 37,711