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10-06-2008

U.S. DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office



103528010

**FORM COVER SHEET  
IS ONLY**

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

**1. Name of conveying party(ies)**

Shwetak N. Patel  
Thomas M. Robertson  
Gregory D. Abowd  
Matthew S. Reynolds

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

**3. Nature of conveyance/Execution Date(s):**

Execution Date(s) 9/9/2008, 9/11/2008

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Joint Research Agreement  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other \_\_\_\_\_

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

Name: Georgia Tech Research Corporation

Internal Address: \_\_\_\_\_

Street Address: 505 Tenth Street, NW

City: Atlanta

State: GA

Country: US Zip: 30332-0415

Additional name(s) & address(es) attached? ☐ Yes ☒ No

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

☒ This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

**5. Name and address to whom correspondence concerning document should be mailed:**

Name: Law Offices of Kenneth W. Float

Internal Address: \_\_\_\_\_

Street Address: 2095 Hwy. 211, NW, #2F

City: Braselton

State: GA Zip: 30517

Phone Number: (949) 257-7964

Fax Number: \_\_\_\_\_

Email Address: \_\_\_\_\_

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

**7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40**

- ☐ Authorized to be charged by credit card  
☒ Authorized to be charged to deposit account  
☐ Enclosed  
☐ None required (government interest not affecting title)

**8. Payment Information**

a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_

b. Deposit Account Number 502064

Authorized User Name Kimberly A. Dunn

**9. Signature:**

Signature

8/28/2008

Date

Kenneth W. Float

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: **7**

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450

10/03/2008 DBYRNE 00000015 502064 12283869  
01 FC:0021 40.00 DA

**PATENT  
REEL: 021639 FRAME: 0889**

**ASSIGNMENT  
OF UTILITY PATENT APPLICATION**

WHEREAS, the following parties:

<u>Name</u>	<u>Address</u>
Shwetak N. Patel	2299 Briarcliff Commons NE, Atlanta, GA 30345
Thomas M. Robertson	3060 Pharr Court North, #306, Atlanta, GA 30305
Gregory D. Abowd	1932 Oak Grove Road NE. Atlanta, GA 30345
Matthew S. Reynolds	4 Woodcliff Circle, Durham, NC 27712

hereinafter referred to as ASSIGNOR, has/have invented certain new and useful improvements ("invention(s)") as described and set forth in the below-identified utility application for United States Letters Patent entitled:

**"DETECTING ACTUATION OF ELECTRICAL DEVICES  
USING ELECTRICAL NOISE OVER A POWER LINE",**

which was:

- ☒ executed on even date herewith,  
☐ filed with the United States Patent and Trademark Office (USPTO) on \_\_\_\_\_, and assigned Serial No. \_\_\_\_\_, and  
☒ further described in U.S. Provisional application entitled "**Powerline Event Detection**", filed with the USPTO on September 18, 2007, and assigned Serial No. 60/973,188.

*Note: Only one of the first two checkboxes will be checked. The third checkbox will be checked, only if appropriate.*

WHEREAS, Georgia Tech Research Corporation, having a place of business at the Georgia Institute of Technology, 505 Tenth Street, NW, Atlanta, Georgia 30332-0415, hereinafter referred to as ASSIGNEE, is desirous of acquiring ASSIGNOR'S interest in and to said invention(s), said utility application, said provisional application, and any U.S. and foreign patents which are related to the same.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by ASSIGNOR, ASSIGNOR has sold, assigned and transferred and does hereby sell, assign and transfer unto ASSIGNEE, and ASSIGNEE'S successors and assigns, (a) the entire right, title and interest, for the United States of America, in and to said invention(s), said utility application, and said Provisional application and all the rights and privileges in any application and under any and all patents that may be granted in the U.S. for said inventions, including all corresponding provisional, continuation, continuation in part, divisional, reissue, and reexamination applications; and (b) the entire right, title and interest in and to said invention(s), said utility application, and said provisional application for all countries foreign to the U.S., including all rights of priority arising from them, and all the rights and privileges under any and all forms of protection, including patents, that may be granted in said countries foreign to the U.S. for them.

ASSIGNOR authorizes ASSIGNEE to make application for such protection in its own name and maintain such protection in any and all countries foreign to the U.S., and to invoke and claim for any application for patent or other form of protection for said Inventions, without further authorization from ASSIGNOR, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

ASSIGNOR hereby consents that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of ASSIGNEE to apply for patent or other form of protection for said Inventions, said utility application, or said provisional application and to claim the aforesaid benefit of the right of priority.

ASSIGNOR requests that any and all patents for said inventions be issued to ASSIGNEE in the U.S. and to ASSIGNEE in all countries foreign to the U.S., or to such nominee as ASSIGNEE may designate.

ASSIGNOR covenants and agrees that, when requested, ASSIGNOR shall, without charge to ASSIGNEE but at ASSIGNEE'S expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable, or convenient in connection with the patent applications, patents, or other forms of protection of said invention(s), and for the defense and protection thereof if challenged in the court of law.

ASSIGNOR authorizes ASSIGNEE or its agents to insert, on ASSIGNOR'S behalf, the filing date and/or serial number above pertaining to the utility application and/or the provisional application, if not known as of the date of execution of this document.

  
Shwetak N. Patel

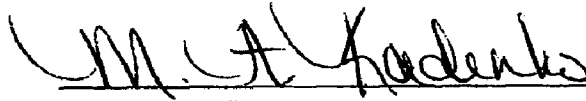
Date: September 11, 2008

United States of America

State of ~~GEORGIA~~ Washington  
County of ~~FULTON~~ King

On this 11<sup>th</sup> day of September, 2008, before me personally came  
Shwetak N. Patel to me known to be the individual described above and who executed the  
foregoing instrument, or acknowledged execution of the same.



  
Notary Public

January 23, 2012  
My Commission Expires (Date)

Thomas M. Robertson  
Thomas M. Robertson

Date: 9-11-08

United States of America

State of GEORGIA  
County of FULTON

On this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me personally came  
**Thomas M. Robertson** to me known to be the individual described above and who executed the  
foregoing instrument, or acknowledged execution of the same.

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

\_\_\_\_\_  
My Commission Expires (Date)

Gregory D. Abowd  
Gregory D. Abowd

Date: 9/11/08

United States of America

State of GEORGIA  
County of FULTON

On this 11<sup>th</sup> day of September, 2008, before me personally came **Gregory D. Abowd** to me known to be the individual described above and who executed the foregoing instrument, or acknowledged execution of the same.

Phyllis H. Hendrich  
Notary Public

July 23, 2012  
My Commission Expires (Date)

Matthew S. Reynolds

Matthew S. Reynolds

Date: 9/9/2008

United States of America

State of NORTH CAROLINA

County of

On this 9 day of September, 2008, before me personally came **Matthew S. Reynolds** to me known to be the individual described above and who executed the foregoing instrument, or acknowledged execution of the same.

Linda W. Broughton  
Notary Public  
NOTARY PUBLIC  
ORANGE COUNTY, N.C.  
My Commission Expires 10/24/2012  
My Commission Expires (Date)