

RECORDATION FORM COVER SHEET

PATENTS 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)

EDWARD GRANT
MATTHEW CRAVER
CAREY MERRITT
KYLE LUTHY
JONATHAN SIMMONS
KYLE ROBERTS
ROBERT C. ROTH
ROGER C. SANWALD
JOHN S. STRENKOWSKI
LEONARDO SERRA MATTOSAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

2. Name and address of receiving party(ies)

Name: NORTH CAROLINA STATE UNIVERSITY

Internal Address: _____

Street Address: 920 Main Campus DriveCity: RaleighState: North CarolinaCountry: USA Zip: 27606Additional name(s) & address(es) attached? ☐ Yes ☒ No

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

Execution Date(s) 11/17/2009, 11/16/2009, 11/17/2009,
11/15/2009, 11/09/2009, 11/16/2009, 11/09/2009,
11/19/2009, 11/19/2009, & 11/09/2009

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

4. Application or patent number(s):

A. Patent Application No.(s) 12/534,724☐ This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Gregory A. HuntJenkins, Wilson, Taylor & Hunt, P.A.

Internal Address: _____

Street Address: Suite 1200 University Tower3100 Tower BoulevardCity: DurhamState: NC Zip: 27707Phone Number: 919-493-8000Fax Number: 919-419-0383Email Address: ghunt@jwth.com6. Total number of applications and patents involved: 17. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- ☐ 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 _____
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9. Signature: _____

Signature

December 28, 2009

Date

Gregory A. Hunt

Name of Person Signing

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

11

PATENTAtty Docket: 297/237/2ASSIGNMENT

WHEREAS, we, Edward Grant, City of Raleigh, State of North Carolina; Matthew Craver, City of Raleigh, State of North Carolina; Carey Merritt, City of Raleigh, State of North Carolina; Kyle Luthy, City of Raleigh, State of North Carolina; Jonathan Simmons, City of Cary, State of North Carolina; Kyle Roberts, City of Raleigh, State of North Carolina; Robert C. Roth, City of Cary, State of North Carolina; Roger C. Sanwald, City of Raleigh, State of North Carolina; John S. Strenkowski, City of Cary, State of North Carolina; and Leonardo Serra Mattos, City of Genoa, Country of Italy (hereinafter "Assignors"), have invented certain new and useful improvements in METHODS, SYSTEMS, AND COMPUTER READABLE MEDIA FOR WIRELESS CRACK DETECTION AND MONITORING for which a U.S. Patent Application was filed on August 3, 2009 as Serial No. 12/534,724.

dm
11/17/2009

OAK RIDGE

Raleigh

AND, WHEREAS, North Carolina State University, a non-profit organization located at Raleigh, North Carolina (hereinafter "Assignee"), is desirous of acquiring an interest therein.

NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignors have sold and by these presents do hereby sell, assign, transfer and convey unto the Assignee, its successors and assigns, their entire right, title and interest in and to the invention and application, and in and to any and all foreign patent applications filed on the invention, and in and to any and all continuations, continuations-in-part, or divisions thereof, and in and to any and all Letters Patent of the United States of America and all foreign countries or reissues thereof which may be granted therefor or thereon, for the full end of the term for which said Letters Patent may be granted, together with their right to claim the priority of said application in all foreign countries in accordance with the

PATENT**REEL: 023715 FRAME: 0882**

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Atty. Docket No. 297/237/2

International Convention, the same to be held and enjoyed by said Assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by Assignors if this assignment and sale had not been made.

Assignors hereby request that said Letters Patent be issued in accordance with this assignment.

Assignors further covenant and agree that, at the time of the execution and delivery of these presents, Assignors possess full title to the invention and application above-mentioned, and that they have the unencumbered right and authority to make this assignment.

Assignors further covenant and agree, and likewise bind their heirs, legal representatives and assigns, to promptly communicate to said Assignee or its representatives any facts known to them relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the Assignee, its representatives, successors and assigns to secure patent or similar protection for the said invention in all countries and to vest in the Assignee complete title to the said invention and Letters Patent, without further compensation, but at the expense of said Assignee, its successors, assigns and other legal representatives.

Executed this 17th day of November 2009.


 Edward Grant

Atty. Docket No. 297/237/2

Executed this 16th day of November 2009.


Matthew Craver

Executed this _____ day of _____ 2009.

Carey Merritt

Executed this _____ day of _____ 2009.

Kyle Luthy

Executed this _____ day of _____ 2009.

Jonathan Simmons

Atty. Docket No. 297/237/2

Executed this _____ day of _____ 2009.

Matthew Craver

Executed this 17th day of NOVEMBER 2009.

Carey Merritt
Carey Merritt

Executed this _____ day of _____ 2009.

Kyle Luthy

Executed this _____ day of _____ 2009.

Jonathan Simmons

Atty. Docket No. 297/237/2

Executed this _____ day of _____ 2009.

Matthew Craver

Executed this _____ day of _____ 2009.

Carey Merritt

Executed this 15th day of November 2009.



Kyle Luthy

Executed this _____ day of _____ 2009.

Jonathan Simmons

Atty. Docket No. 297/237/2

Executed this _____ day of _____ 2009.

Matthew Craver

Executed this _____ day of _____ 2009.

Carey Merritt

Executed this _____ day of _____ 2009.

Kyle Luthy

Executed this 9 day of November 2009.



Jonathan Simmons

Atty. Docket No. 297/237/2

Executed this 16th day of November 2009.

Kyle P Roberts
Kyle Roberts

Executed this _____ day of _____ 2009.

Robert C. Roth

Executed this _____ day of _____ 2009.

Roger C. Sanwald

Executed this _____ day of _____ 2009.

John S. Strenkowski

Atty. Docket No. 297/237/2

Executed this _____ day of _____ 2009.

Kyle Roberts

Executed this 9th day of November 2009.

Robert C. Roth
Robert C. Roth

Executed this _____ day of _____ 2009.

Roger C. Sanwald

Executed this _____ day of _____ 2009.

John S. Strenkowski

919 513 0770


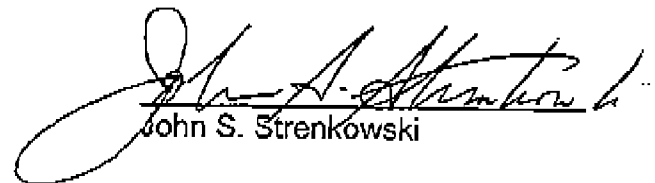
Atty. Docket No. 297/237/2

Executed this _____ day of _____ 2009.

Kyle Roberts

Executed this _____ day of _____ 2009.

Robert C. Roth

Executed this 19th day of November 2009.
Roger C. Sanwald*****
Executed this 19th day of November 2009.
John S. Strenkowski

Atty. Docket No. 297/237/2

Executed this 9 day of NOVEMBER 2009.



Leonardo Serra Mattos

JENKINS, WILSON, TAYLOR & HUNT, P.A.**PATENT ATTORNEYS**

SUITE 1200 UNIVERSITY TOWER
3100 TOWER BOULEVARD
DURHAM, NORTH CAROLINA 27707
TELEPHONE: (919) 493-8000
FACSIMILE: (919) 419-0383

WEBSITE: WWW.JENKINSWILSON.COM

DATE: December 28, 2009

TO: Assignment Recordation Services @ USPTO

FAX NO.: (571) 273-0140

FROM: Gregory A. Hunt (trb)

RE: Serial No.: 12/534,724 (Our File No. 297/237/2)

NUMBER OF PAGES TO FOLLOW: 11

**If transmission is poor, or if you do not receive all pages, please
call (919) 493-8000 as soon as possible.**

COMMENTS: Please see the following attachments:

Recordation Form Cover Sheet (Form PTO-1595, 1 page); and
Executed Assignment (10 pages).

If you have any questions, please do not hesitate to contact us.
Thank you and best regards.

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PATENT

RECORDED: 12/28/2009

REEL: 023715 FRAME: 0892