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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)**

DAVID R. SMITH

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

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

Name: DUKE UNIVERSITY

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

Street Address: 2812 Erwin Road, Suite 306

City: Durham

State: North Carolina

Country: USA Zip: 27705

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

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

Execution Date(s) 01/27/2010

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

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

A. Patent Application No.(s) 12/688,656

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. Hunt

Jenkins, Wilson, Taylor & Hunt, P.A.

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

**7. 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**

Deposit Account Number 50-0426

Authorized User Name JENKINS, WILSON, TAYLOR & HUNT, PA.

Attorney Docket No. \_\_\_\_\_

**9. Signature:**

Signature

May 26, 2010

Date

Gregory A. Hunt  
Name of Person Signing

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

**3**

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PATENTAtty Docket: 180/274/3ASSIGNMENT

WHEREAS, I, David R. Smith, City of Durham, State of North Carolina (hereinafter "Assignor"), has invented certain new and useful improvements in BROADBAND METAMATERIAL APPRATUS, METHODS, SYSTEMS, AND COMPUTER READABLE MEDIA for which a U.S. Patent Application was filed on January 15, 2010 as Serial No. 12/688,656.

AND, WHEREAS, Duke University, a non-profit organization located at Durham, 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, Assignor has sold and by these presents does hereby sell, assign, transfer and convey unto the Assignee, its successors and assigns, his/her 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 his/her right to claim the priority of said application in all foreign countries in accordance with the 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 Assignor if this assignment and sale had not been made.

Assignor hereby requests that said Letters Patent be issued in accordance with this assignment.

Assignor further covenants and agrees that, at the time of the execution and delivery of these presents, Assignor possesses full title to the invention and application above-mentioned, and that he/she has the unencumbered right and authority to make this assignment.

Atty. Docket No.: 180/274/3

Assignor further covenants and agrees, and likewise binds his/her heirs, legal representatives and assigns, to promptly communicate to said Assignee or its representatives any facts known to him/her 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 21 day of January 2010.

  
\_\_\_\_\_  
David R. Smith