

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT						
NATURE OF CONVEYANCE:	ASSIGNMENT						
CONVEYING PARTY DATA							
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>WENYI SHAO</td> <td>11/22/2013</td> </tr> <tr> <td>RYAN S. ADAMS</td> <td>12/04/2013</td> </tr> </tbody> </table>		Name	Execution Date	WENYI SHAO	11/22/2013	RYAN S. ADAMS	12/04/2013
Name	Execution Date						
WENYI SHAO	11/22/2013						
RYAN S. ADAMS	12/04/2013						
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State/Country:	NORTH CAROLINA						
Postal Code:	28223						
PROPERTY NUMBERS Total: 1							
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>14054105</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14054105		
Property Type	Number						
Application Number:	14054105						
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Signature:	/Effie Hale/						
Date:	02/18/2014						

PATENT

Total Attachments: 4

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ASSIGNMENT - WORLDWIDE

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor (hereinafter referred to singly and collectively as "ASSIGNOR") has sold, assigned, and transferred, and by these presents hereby sells, assigns, and transfers, unto

The University of North Carolina at Charlotte
Office of Technology Transfer
9201 University City Blvd.
Charlotte, North Carolina 28223

(hereinafter referred to as "ASSIGNEE") its successors and assigns, the full and exclusive right, title and interest for the United States, its territories and possessions, and all foreign countries in and to this invention relating to

ANTIPODAL VIVALDI ANTENNA ARRAY FOR BIOMEDICAL IMAGING

as set forth in this United States Patent Applications

check one executed concurrently herewith,
 executed on _____,
 Serial No. 14/054,105 Filed 10/15/2013
 Serial No. 61/853,673 Filed 4/10/2013

as well as in and to (a) all improvements and modifications of the above-identified invention or inventions, (b) the above-identified application and all other applications for Letters Patent of the United States and countries foreign thereto for above-identified invention or inventions and all improvements and modifications thereof, (c) all Letters Patent which may issue from said applications in the United States and countries foreign thereto, (d) all divisions, continuations, reissues, and extensions of said applications and Letters Patent, and (e) the right to claim for any of said applications the full benefits and priority rights under the Patent Cooperation Treaty, the Paris Convention and any other international agreement; such right, title, and interest to be held and enjoyed by ASSIGNEE, its successors and assigns, to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by ASSIGNOR had this Assignment not been made.

ASSIGNOR HEREBY AUTHORIZES ASSIGNEE to file patent applications in any or all countries on the above-identified invention or inventions in the name of the undersigned or in the name of ASSIGNEE or otherwise as ASSIGNEE may deem advisable under the International Convention or otherwise.

ASSIGNOR HEREBY AUTHORIZES AND REQUESTS the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE as assignee of the entire interest, for the sole use and benefit of ASSIGNEE, its successors and assigns.

ASSIGNOR HEREBY AGREES (a) to communicate to ASSIGNEE, its successors and assigns, or their representative or agents, all facts and information known or available to ASSIGNOR respecting said invention or inventions, improvements, and modifications; (b) to execute and deliver, upon request by ASSIGNEE, lawful papers including original, divisional, continuation, and reissue applications, assignments, powers of attorney, and declarations, and (c) to provide all reasonable assistance to ASSIGNEE, its successors and assigns, in obtaining and enforcing proper title in and protection for said invention or inventions, improvements, and modifications under the intellectual property laws of the United States and countries foreign thereto.

ASSIGNOR HEREBY REPRESENTS AND WARRANTS that ASSIGNOR has the full and unencumbered right to sell, assign, and transfer the interests sold, assigned, and transferred herein, and that ASSIGNOR has not executed and will not execute any document or instrument in conflict herewith.

ASSIGNOR HEREBY GRANTS to the law firm of **Foley & Lardner LLP** the power and authority to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

NAME AND SIGNATURE OF INVENTORS

Name: WENYI SHAO

SIGNATURE Wenyi Shao Date Nov 22nd

2013

Name: RYAN S. ADAMS

SIGNATURE _____ Date _____

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