


Client Code: UND.008A

# **RECORDATION FORM COVER SHEET PATENTS ONLY**

To the Director, U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.

<p>1. Name of conveying party(ies): (List using letters or numbers for multiple parties)</p> <p>1. J. Nicholas Laneman 2. Zhanwei Sun 3. Glenn Bradford</p> <p>Additional name(s) of conveying party(ies) attached? ( ) Yes (X) No</p>	<p>2. Name and address of receiving party(ies):</p> <p><b>Name:</b> University of Notre Dame du Lac <b>Internal Address:</b> <b>Street Address:</b> 203 Main Building <b>City:</b> Notre Dame <b>State:</b> IN <b>ZIP:</b> 46556</p> <p>Additional name(s) of receiving party(ies) attached? ( ) Yes (X) No</p>
<p>3. Nature of conveyance:</p> <p>(X) Assignment ( ) Security Agreement ( ) Merger ( ) Change of Name ( ) Other:</p> <p>Execution Date: (List as in section 1 if multiple signatures) April 20, 2011</p>	<p>4. US or PCT Application number(s) or US Patent number(s):</p> <p>(X) Patent Application No.: 13/080607 Filing Date: April 5, 2011</p> <p>Additional numbers attached? ( ) Yes (X) No</p>
<p>5. Party to whom correspondence concerning document should be mailed:</p> <p><b>Customer No.</b> 20,995 <b>Address:</b> Knobbe, Martens, Olson &amp; Bear, LLP 2040 Main Street, 14<sup>th</sup> Floor Irvine, CA 92614 <b>Return Fax:</b> (949) 760-9502 <b>Attorney's Docket No.:</b> UND.008A</p>	<p>6. Total number of applications and patents involved: 1</p>
<p>7. Total fee (37 CFR 1.21(h)): \$40 (X) Authorized to be charged to deposit account</p>	<p>8. Deposit account number: 11-1410 Please charge this account for any additional fees which may be required, or credit any overpayment to this account.</p>
<p>9. Statement and signature.</p> <p>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.</p> <p><u>Paul T. Main</u> Name of Person Signing</p> <p><u>66064</u> Registration No.</p> <p><u></u> Signature</p> <p><u>5/17/2011</u> Date</p> <p align="right">Total number of pages including cover sheet, attachments and document: 3</p>	

Documents transmitted via Facsimile to be recorded with required cover sheet information to:

**Mail Stop Assignment Recordation Services**  
Director, U.S. Patent and Trademark Office  
P.O. Box 1450  
Alexandria, VA 22313-1450  
**Facsimile Number: (571) 273-0140**

11186316/050511

700463096

**PATENT**  
**REEL: 026296 FRAME: 0223**

CH \$40.00 111410 13080607

Application No.: 13/080607  
Filing Date: April 5, 2011

Docket Number: UND.008A  
Page 1 of 2

### ASSIGNMENT

WHEREAS, J. Nicholas Laneman, a US citizen, residing at Granger, IN, Zhanwei Sun, a CN citizen, residing at South Bend, IN, Glenn Bradford, a US citizen, residing at Notre Dame, IN, (individual(s) hereinafter "ASSIGNOR") invented certain new and useful improvements, technology, inventions, developments, ideas or discoveries related to SEQUENCE DETECTION METHODS, DEVICES, AND SYSTEMS FOR SPECTRUM SENSING IN DYNAMIC SPECTRUM ACCESS NETWORKS (collectively hereinafter referred to as the "Work") for which an application for Letters Patent in the United States has been prepared for filing (identified above) with the United States Patent and Trademark Office (hereinafter the "Application");

AND WHEREAS, University of Notre Dame du Lac, a Corporation, with its principal place of business at 203 Main Building, Notre Dame, Indiana 46556 (hereinafter the "ASSIGNEE"), desires to acquire the entire right, title, and interest in and to the Application and the Work:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby acknowledges that ASSIGNOR has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto said ASSIGNEE, successors, legal representatives and assigns, the entire right, title, and interest throughout the world in the Application and the Work, including all provisional applications relating thereto (including but not limited to U.S. Provisional Application No(s). 61/341,882, filed (respectively if plural applications)), and all nonprovisional applications claiming priority thereto, including, all divisions, continuations, continuations-in-part, reissues, and reexaminations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and any related Letters Patent which may hereafter be granted or filed in any country or countries foreign to the United States, all extensions, renewals and reissues thereof; and ASSIGNOR hereby authorizes and requests the Commissioner of Patents 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 all related Letters Patent to the ASSIGNEE, successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND ASSIGNOR DOES HEREBY sell, assign, transfer, and convey to ASSIGNEE, successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of said Letters Patent before or after issuance.

AND ASSIGNOR DOES HEREBY covenant and agree that ASSIGNOR will communicate to said ASSIGNEE, successors, legal representatives and assigns, any facts known to ASSIGNOR respecting the Work, and testify in any legal proceeding, assist in the preparation of any other provisional or non-provisional applications relating to the Application and the Work or any improvements made thereto, sign all lawful papers, execute and make all rightful oaths and/or declarations in connection with the Application and the Work including any improvements made thereto, any patent applications filed therefrom, and any continuing application filed from any of the aforementioned applications, and generally do everything possible to aid the ASSIGNEE, successors, legal representatives and assigns, to obtain and enforce proper patent protection for the Work in all countries.

Application No.: 13/080607  
Filing Date: April 5, 2011

Docket Number: UND.008A  
Page 2 of 2


IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 20<sup>th</sup> day of April, 2011.

  
J. Nicholas Laneman

Sign in presence of a Notary and have

Notary attach Acknowledgement

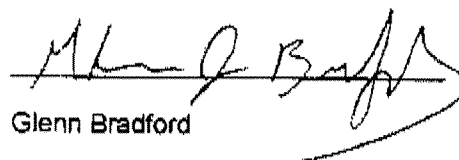
IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 20<sup>th</sup> day of April, 2011.

  
Zhanwei Sun

Sign in presence of a Notary and have

Notary attach Acknowledgement

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 20<sup>th</sup> day of April, 2011.

  
Glenn Bradford

Sign in presence of a Notary and have

Notary attach Acknowledgement