




Form <b>PTO-1595</b> <span style="float: right;">Recordation Form Cover Sheet</span> (Rev. 03/01) <span style="float: right;"><b>PATENTS ONLY</b></span> OMB No. 0651-0027 (exp. 5/31/2002) <span style="float: right;">U.S. Department of Commerce</span> <span style="float: right;">U.S. Patent and Trademark Office</span>							
To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.							
1. Name of conveying party(ies):  Onggosanusi, Eko N. Van Veen, Barry D. Sayeed, Akbar M.  Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies)  Name: Wisconsin Alumni Research Foundation Internal Address:  Street Address: 614 Walnut Street  City: Madison State: WI Zip: 53705  Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						
3. Nature of Conveyance:  <input checked="" type="checkbox"/> Assignment <span style="margin-left: 150px;"><input type="checkbox"/> Merger</span> <input type="checkbox"/> Security Agreement <span style="margin-left: 150px;"><input type="checkbox"/> Change of Name</span>  <input type="checkbox"/> Other _____	Execution Date: 1)11/30/01; 2)1/2/02; 3)1/4/02						
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: _____ A. Patent Application No.(s) <span style="margin-left: 150px;">B. Patent No.(s)</span>  09/970460							
Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							
5. Name and address of party to whom correspondence Concerning document should be mailed:  Name: Kathy Hanneman Internal Address Wisconsin Alumni Research Foundation Street Address: 614 Walnut Street City: Madison State: WI Zip: 53705	6. Total number of applications and patents involved: 1  7. Total fee (37 CFR 3.41).....\$40.00 <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account  8. Deposit account number: <u>23-2545</u> (Attach duplicate copy of this page if paying by deposit account)						
<b>DO NOT USE THIS SPACE</b>							
9. Statement and signature. <i>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.</i>  <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">Kathy Hanneman</td> <td style="width: 40%; text-align: center;"></td> <td style="width: 30%; text-align: right;">01/15/02</td> </tr> <tr> <td>Name of Person Signing</td> <td style="text-align: center;">Signature</td> <td style="text-align: right;">Date</td> </tr> </table> <p style="text-align: center; margin-top: 10px;">Total number of pages including cover sheet, attachments, and documents: 6</p>		Kathy Hanneman		01/15/02	Name of Person Signing	Signature	Date
Kathy Hanneman		01/15/02					
Name of Person Signing	Signature	Date					

Mail documents to be recorded with required cover sheet information to:  
 Commissioner of Patents & Trademarks, Box Assignments  
 Washington, DC 20231

P01040US

700009795

**PATENT**  
**REEL: 012306 FRAME: 0159**

ASSIGNMENT  
(Joint Inventors)

I am one of the persons identified as an inventor and who has contributed to a certain new and useful invention (the "Invention"), as set forth in an application for United States Letters Patent, bearing substantially the following title and bearing the following serial number. The application was executed by me, and it was filed on the indicated date:

Title: CHANNEL AWARE OPTIMAL SPACE-TIME SIGNALING FOR WIRELESS COMMUNICATION OVER WIDEBAND MULTIPATH CHANNELS

Serial Number: 09/970460

Date Filed: 10-3-2001

The assignee under this agreement is hereby authorized to insert the filing date and serial number referred to above, when ascertained.

For good and valuable consideration, I do hereby sell, assign, and transfer to the Wisconsin Alumni Research Foundation (hereinafter "WARF") a non-stock, non-profit Wisconsin corporation, and to its legal representatives, successors, and assigns, my entire right, title and interest in and to the Invention and to all United States and foreign patent applications any of whose claims cover all or part of the Invention, together with all patents resulting from such applications. WARF shall hold such right, title, and interest as fully and completely as they would have been held by me had this assignment and sale not been made.

I agree, upon WARF's request, to execute or assent to such United States and foreign patent applications and to execute all separate assignments and other legal documents that WARF may find necessary or desirable in its exercise of the right, title, and interest assigned above. I also agree to communicate to WARF any facts relating to the Invention or to any of the patent applications or patents contemplated above that may be useful to WARF and to testify as to such facts in any interferences or in litigation, if requested to do so. I shall do all these things without additional compensation but at no expense to me.

I hereby request the Commissioner of Patents to issue to WARF, as the owner of my entire right, title, and interest therein, any Letters Patent of the United States that may be issued for the Invention.

Ref: P01040US  
Wisconsin Alumni Research Foundation

PATENT  
REEL: 012306 FRAME: 0160






ASSIGNMENT

Wisconsin Alumni Research Foundation

Ref: P01040US

App.#: 09/970460, Filed: 10-3-2001

Inventor: 

Date: 1-4-2002


~~Akbar M. Sayeed  
1046 E. Johnson Street, #D  
Madison, WI 53703~~

856 Woodrow St  
Madison, WI 53711

State of Wisconsin )  
                                  )ss.  
County of Dane        )

On this 4 day of January, <sup>2002</sup>~~2001~~ before me personally appeared Akbar M. Sayeed, known to me to be the person identified above as the "Inventor," who executed the above instrument and acknowledged to me that he or she executed the same for the uses and purposes therein set forth.

SEAL

  
Notary Public

My Commission expires: Nov. 10, 2002