

PATENT ASSIGNMENT

Electronic Version v1.1

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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>Kenneth L. Stanwood</td> <td>10/16/2012</td> </tr> <tr> <td>David Gell</td> <td>10/16/2012</td> </tr> <tr> <td>Yiliang Bao</td> <td>10/16/2012</td> </tr> <tr> <td>Warren Roddy</td> <td>11/21/2012</td> </tr> </tbody> </table>		Name	Execution Date	Kenneth L. Stanwood	10/16/2012	David Gell	10/16/2012	Yiliang Bao	10/16/2012	Warren Roddy	11/21/2012
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Kenneth L. Stanwood	10/16/2012										
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RECEIVING PARTY DATA											
Name:	Cygnus Broadband, Inc.										
Street Address:	15090 Avenue of Science, Suite 103										
City:	San Diego										
State/Country:	CALIFORNIA										
Postal Code:	92128										
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>13653239</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13653239						
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Application Number:	13653239										
CORRESPONDENCE DATA											
Fax Number:	6192350398										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
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NAME OF SUBMITTER:	Caitlin E. Yaussi										
Total Attachments: 3 source=Assignment-116719-009UTL#page1.tif source=Assignment-116719-009UTL#page2.tif source=Assignment-116719-009UTL#page3.tif											

CH \$40.00 13653239

ASSIGNMENT

WHEREAS, We, **Kenneth L. Stanwood**, a citizen of the United States; **David Gell**, a citizen of the United States; **Yiliang Bao**, a citizen of the United States; and **Warren Roddy**, a citizen of the United States, have invented certain new and useful improvements in an **SYSTEMS AND METHODS FOR COOPERATIVE APPLICATIONS IN COMMUNICATION SYSTEMS** for which we have prepared an application for Letters Patent in the United States, filed at the U.S. Patent and Trademark Office, (filed on October 16, 2012 as serial no. 13/653,239), (The undersigned hereby authorizes and requests the attorneys of Procopio, Cory, Hargreaves & Savitch LLP, Customer No. 27189 to insert in the appropriate blanks, the serial number and filing date of the application when known.).

AND WHEREAS, Cygnus Broadband, Inc. (hereinafter "ASSIGNEE"), a corporation, with its principal place of business at 15090 Avenue of Science, Suite 103, San Diego, CA 92128, desires to acquire the entire right, title, and interest in and to the said improvements and the said Application:

NOW, THEREFORE, in consideration of good and valuable consideration, the receipt of which is hereby acknowledged, we, the said inventors, do hereby acknowledge that we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, successors, legal representatives and assigns, the entire right, title, and interest throughout the world in, to and under the said improvements, and the said application and all provisional applications relating thereto, and all divisions, renewals and continuations 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 applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and we hereby authorize and request 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 Letters Patent for said improvements to the said ASSIGNEE, successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we will communicate to the said ASSIGNEE, successors, legal representatives and assigns, any facts known to us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said ASSIGNEE, successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

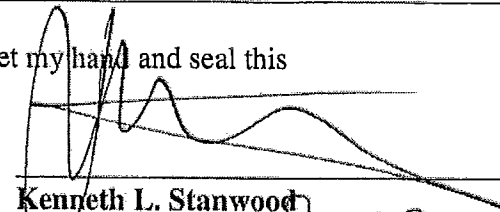
IN TESTIMONY WHEREOF, I hereunto set my hand and seal this

16 day of Oct, 2012

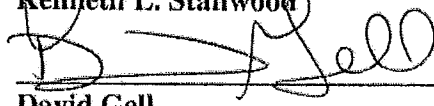
16 day of Oct, 2012

16 day of Oct, 2012

____ day of _____, 2012



Kenneth L. Stanwood



David Gell



Yiliang Bao

Warren Roddy

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this

____ day of _____, 2012

Kenneth L. Stanwood

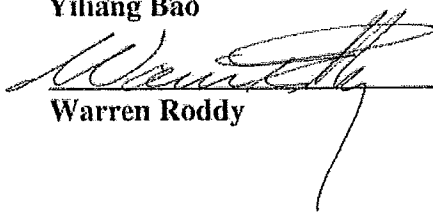
____ day of _____, 2012

David Gell

____ day of _____, 2012

Yiliang Bao

21st day of November, 2012



Warren Roddy