

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
YILIANG BAO	03/07/2013
DAVID GELL	03/07/2013
KENNETH L. STANWOOD	03/07/2013
AHMED ELARABAWY	03/07/2013
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15002618
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NAME OF SUBMITTER:	PAMELA SKELTON
SIGNATURE:	/Pamela Skelton/
DATE SIGNED:	01/21/2016
Total Attachments: 1	

ASSIGNMENT

WHEREAS, We, **Yiliang Bao**, a citizen of the United States; **David Gell**, a citizen of the United States; **Kenneth L. Stanwood**, a citizen of the United States, and **Ahmed ElArabawy**, a citizen of Egypt, have invented certain new and useful improvements in an **SYSTEMS AND METHODS FOR USING CLIENT-SIDE VIDEO BUFFER OCCUPANCY FOR ENHANCED QUALITY OF EXPERIENCE IN A COMMUNICATION NETWORK** 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 March 7, 2013 as serial no. 13/789,462). (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.).

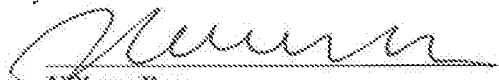
AND WHEREAS, Cygnus Broadband, Inc. (hereinafter "ASSIGNEE"), a corporation, with its principal place of business at 15090 Avenue of Science, Suite 103, San Diego, CA 92128, desires to acquire the entire right, title, and interest in and to the said improvements and the said Application:

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


7 day of March, 2013


Yiliang Bao

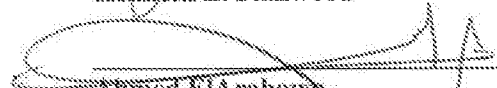
7 day of March, 2013


David Gell

7 day of March, 2013


Kenneth L. Stanwood

7 day of March, 2013


Ahmed ElArabawy