

PATENTS ONLY

11-05-2008



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<p>1. Name of party or parties conveying an interest:</p> <p><b>Thomas Anschutz</b> <b>Zhi Cui</b></p>	<p>2. Name and address of party or parties receiving an interest:</p> <p>Name: AT&amp;T Intellectual Property I, L.P. A Nevada Partnership 645 E Plumb Lane Reno, Nevada 89502</p>
<p>3. Description of the interest conveyed:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Change of Name <input type="checkbox"/> Security Agreement</p> <p>Execution Date: 10/23/08</p>	<p>Other:</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">OPR/FINANCE</p>
<p>4. Application number(s) or patent number(s). Additional sheet attached? YES ___ NO <u>X</u></p> <p>A. Patent Application no.(s): 12/257,858 filed October 24, 2008</p>	<p>If the document is being filed together with a new application, the execution date of the application is:</p> <p>B. Patent no.(s):</p>
<p>5. Name and address of party to whom correspondence concerning this cover sheet should be mailed:</p> <p>Name: Mark G. Hanley Reg. No. 44,736 HANLEY, FLIGHT &amp; ZIMMERMAN, LLC 150 S. Wacker Drive, Suite 2100 Chicago, Illinois 60606</p>	<p>6. Number of applications and/or patents identified on this cover sheet: 1</p> <p>7. Amount of fee enclosed or authorized to be charged: \$40.00</p> <p>8. Any additional required fee may be charged, or any overpayment credited to our deposit account: 50-2455</p>

9. To the best of my knowledge and belief, the information contained on this cover sheet is true and correct and any copy submitted is a true copy of the original document. I hereby certify that this paper is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this date:

Date: 10.31.08

Mark G. Hanley  
Registration No.: 44,736

Total number of pages including cover sheet, attachments, and document: 4

12/257858 10/24/08 4000000 12/257858

## ASSIGNMENT

WHEREAS, **Thomas Anschutz**, a citizen of the United States of America; residing at 2604 High Street, Conyers, GA, 30094, U.S.A.; and **Zhi Cui**, a citizen of the United States of America, residing at 1455 Hembree Station Dr, Marietta, GA 30062, U.S.A; hereinafter called the "Assignors," have made the invention described in the United States patent application entitled "**Distributed Digital Subscriber Line Access Multiplexers to Increase Bandwidth in Access Networks**", Attorney Docket No. 20103/2008-0723, for a full description of which reference is here made to an application for Letters Patent of the United States filed herewith; and

WHEREAS, AT&T INTELLECTUAL PROPERTY I, L.P., a partnership organized and existing under the laws of the State of Nevada, having a place of business at 645 E. Plumb Lane, Reno, Nevada 89502, hereinafter called the "Assignee," desires to acquire the entire right, title and interest for the United States of America and elsewhere throughout the world in and to said invention and the patent application identified above, including any and all divisions and continuations thereof and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues and prolongations thereof.

NOW, THEREFORE in consideration of the sum of One Dollar (\$1.00) and other valuable and legally sufficient consideration, the receipt of which by the Assignors from the Assignee is hereby acknowledged, the Assignors have sold, assigned and transferred, and by these presents does sell, assign and transfer to the Assignee, the entire right, title and interest for the United States in and to the invention and the patent application identified above, and any patents that may issue for said invention in the United States; together with the entire right, title and interest in and to said invention and all patent applications and patents therefore in all countries foreign to the United States, including the full right to claim for any such application all benefits and priority rights under any applicable convention; together with the entire right, title and interest in and to all continuations, divisions, renewals and extensions of any of the patent applications and patents defined above; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term and terms for all such patents.

AND said Assignors hereby covenant and agree, for both the Assignors and the Assignors' legal representatives, that the Assignors will assist the Assignee in the prosecution of the patent application identified above; in the making and prosecution of any other patent applications that the Assignee may elect to make covering the invention identified above; in vesting in the Assignee like exclusive title in and to all such other patent applications and patents; and in the prosecution of any interference which may arise involving said invention, or any such patent application or patent; and that the Assignors will execute and deliver to the Assignee to carry out the terms of this Assignment. Assignors authorize attorney or agent to fill in the U.S. Application Serial No. above, if required.

AND said Assignors authorize and request the Commissioner of Patents to issue Letters Patent on said application, and on any all divisions and continuations thereof, to

said Assignee, its assigns and legal representatives, in accordance with the terms of this Assignment.

IN TESTIMONY WHEREOF, this Assignment is executed by said Assignors, on the date(s) listed below.

Name of Inventor: Thomas Anschutz

Signature of Inventor: *Thomas Anschutz*

Date: 10/23/2008

Witnesses for Inventor

First Witness:

*[Signature]* 10/23/08  
Signature / Date

FHI CUI

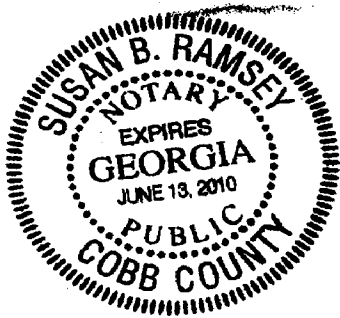
Full Name (printed)

Second Witness:

*Susan B Ramsey* 10/23/08  
Signature / Date

SUSAN RAMSEY

Full Name (printed)



Name of Inventor: Zhi Cui

Signature of Inventor: *Cui*

Date: 10/23/08

Witnesses for Inventor

First Witness: *Tom Anschutz* 10/23/08  
Signature / Date

Thomas ANSCHUTZ  
Full Name (printed)

Second Witness: *Susan B Ramsey* 10/23/08  
Signature / Date

SUSAN BRANSEY 10/23/08  
Full Name (printed)

