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**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT						
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT						
<b>CONVEYING PARTY DATA</b>							
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Anup D. Karnalkar</td> <td>10/31/2007</td> </tr> <tr> <td>Jyotindra N. Shah</td> <td>10/30/2007</td> </tr> </tbody> </table>		Name	Execution Date	Anup D. Karnalkar	10/31/2007	Jyotindra N. Shah	10/30/2007
Name	Execution Date						
Anup D. Karnalkar	10/31/2007						
Jyotindra N. Shah	10/30/2007						
<b>RECEIVING PARTY DATA</b>							
<b>Name:</b>	AT&T Knowledge Ventures, L.P.						
<b>Street Address:</b>	645 E. Plumb Lane						
<b>City:</b>	Reno						
<b>State/Country:</b>	NEVADA						
<b>Postal Code:</b>	89502						
<b>PROPERTY NUMBERS Total: 1</b>							
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>11932514</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	11932514		
Property Type	Number						
Application Number:	11932514						
<b>CORRESPONDENCE DATA</b>							
<b>Fax Number:</b>	(512)391-2173						
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>							
<b>Phone:</b>	512.236.2023						
<b>Email:</b>	jlallyipdocket@jw.com						
<b>Correspondent Name:</b>	Jackson Walker L.L.P.						
<b>Address Line 1:</b>	100 Congress Avenue						
<b>Address Line 2:</b>	Suite 1100						
<b>Address Line 4:</b>	Austin, TEXAS 78701						
<b>ATTORNEY DOCKET NUMBER:</b>	130332.00185						
<b>NAME OF SUBMITTER:</b>	Mindy Mayer						

Total Attachments: 3  
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**500415535**

**PATENT**  
**REEL: 020976 FRAME: 00209**

**CH \$40.00 11932514**



**ASSIGNMENT**

WHEREAS, ANUP D. KARNALKAR, a citizen of the United States of America, residing at 305 Beacon Hill Drive, Allen, Texas 75013, and JYOTINDRA N. SHAH, a citizen of the United States of America, residing at 11404 Monet Drive, Austin, Texas 78726, hereinafter called the "Assignors", have made the invention described in the United States patent application entitled *Integrated Devices for Multimedia Content Delivery and Video Conferencing*, Attorney Docket No. 130332.00185 (AT&T No. 2007-0240), for a full description of which reference is here made to an application for Letters Patent of the United States filed on October 31, 2007 and assigned Application Serial No. 11/932514; and

WHEREAS, ~~AT&T KNOWLEDGE VENTURES, 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, assigned and transferred, and by these presents do 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 Filing Date and Serial No., if required.

AND said Assignors authorize and request the Commissioner of Patents to issue Letters Patent on said application, and on any and all divisions and continuations thereof, to said Assignee, its assigns and legal representatives, in accordance with the terms of this Assignment.

4675799v.1

**PATENT**  
**REEL: 020215 FRAME: 0211**

**PATENT**  
**REEL: 048672 FRAME: 0836**


Assignment  
Page 2 of 3

Attorney Docket No. 130332.00185  
AT&T Docket No. 2007-0240

AND said Assignors authorize and request the Commissioner of Patents to issue Letters Patent on said application, and on any and 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 FIRST INVENTOR	ANUP D. KARNALKAR
SIGNATURE OF FIRST INVENTOR	<u></u>
DATE	<u>10/31/07</u>

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WITNESSES FOR FIRST INVENTOR

FIRST WITNESS:

SIGNATURE / DATE


 10/31/07

FULL NAME PRINTED

VIKAS THORAT

SECOND WITNESS:

SIGNATURE / DATE

 10/31/07

FULL NAME PRINTED

KAREN STEVENS

**ASSIGNMENT**

WHEREAS, ANUP D. KARNALKAR, a citizen of the United States of America, residing at 305 Beacon Hill Drive, Allen, Texas 75013, and JYOTINDRA N. SHAH, a citizen of the United States of America, residing at 11404 Monet Drive, Austin, Texas 78726, hereinafter called the "Assignors", have made the invention described in the United States patent application entitled *Integrated Devices for Multimedia Content Delivery and Video Conferencing*, Attorney Docket No. 130332.00185 (AT&T No. 2007-0240), for a full description of which reference is here made to an application for Letters Patent of the United States filed on October 31, 2007 and assigned Application Serial No. 11/932514; and

← AT&T Intellectual Property I, L.P.      JNS      3/15/09      Jyotindra N. Shah      3/15/2009  
Initial      Date

WHEREAS, ~~AT&T KNOWLEDGE VENTURES, 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, assigned and transferred, and by these presents do 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 Filing Date and Serial No., if required.

AND said Assignors authorize and request the Commissioner of Patents to issue Letters Patent on said application, and on any and all divisions and continuations thereof, to said Assignee, its assigns and legal representatives, in accordance with the terms of this Assignment.

---

NAME OF SECOND INVENTOR

JYOTINDRA N. SHAH

SIGNATURE OF SECOND INVENTOR

Jyotindra N. Shah

DATE

10/30/2007

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WITNESSES FOR SECOND INVENTOR

FIRST WITNESS:

SIGNATURE / DATE

[Signature] 10/30/07

FULL NAME PRINTED

HONG BEAM

SECOND WITNESS:

SIGNATURE / DATE

[Signature] 10/30/07

FULL NAME PRINTED

John P. Romo

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RECORDED: 12/07/2007

PATENT  
REEL: 020215 FRAME: 0213

RECORDED: 03/22/2019

PATENT  
REEL: 048672 FRAME: 0839