

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT																
NATURE OF CONVEYANCE:	ASSIGNMENT																
CONVEYING PARTY DATA																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr><td>Guanzhi Li</td><td>12/02/2010</td></tr> <tr><td>Angela Lan Chiu</td><td>12/06/2010</td></tr> <tr><td>Chris Dailey</td><td>12/11/2010</td></tr> <tr><td>Robert Duncan Doverspike</td><td>12/07/2010</td></tr> <tr><td>Monica Naukam Gerhardstein</td><td>12/10/2010</td></tr> <tr><td>Dongmei Wang</td><td>12/02/2010</td></tr> <tr><td>Dahai Xu</td><td>12/03/2010</td></tr> </tbody> </table>		Name	Execution Date	Guanzhi Li	12/02/2010	Angela Lan Chiu	12/06/2010	Chris Dailey	12/11/2010	Robert Duncan Doverspike	12/07/2010	Monica Naukam Gerhardstein	12/10/2010	Dongmei Wang	12/02/2010	Dahai Xu	12/03/2010
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Name:</td><td>AT&T Intellectual Property I, L.P.</td></tr> <tr><td>Street Address:</td><td>645 E. Plumb Lane</td></tr> <tr><td>City:</td><td>Reno</td></tr> <tr><td>State/Country:</td><td>NEVADA</td></tr> <tr><td>Postal Code:</td><td>89502</td></tr> </table>		Name:	AT&T Intellectual Property I, L.P.	Street Address:	645 E. Plumb Lane	City:	Reno	State/Country:	NEVADA	Postal Code:	89502						
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CORRESPONDENCE DATA																	
<p>Fax Number: (908)707-1574</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 908.532.1918</p> <p>Email: canavaniplaw@optonline.net</p> <p>Correspondent Name: AT & T LEGAL DEPARTMENT - Canavan</p> <p>Address Line 1: ATTN: PATENT DOCKETING</p> <p>Address Line 2: ROOM 2A-207, ONE AT & T WAY</p> <p>Address Line 4: BEDMINSTER, NEW JERSEY 07921</p>																	
ATTORNEY DOCKET NUMBER:	2009-1482																

OP \$40.00 12966356

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PATENT
REEL: 025476 FRAME: 0827

NAME OF SUBMITTER:

Robert T. Canavan

Total Attachments: 8

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ASSIGNMENT

WHEREAS, **Guangzhi Li**, a citizen of China, residing at 23A Plain Street, Madison, New Jersey 07940; **Angela Lan Chiu**, a citizen of the United States of America, residing at 9 Huntley Road, Holmdel, New Jersey 07733, **Chris Dailey**, a citizen of the United States of America, residing at 3342 Tilley Morris Road, Matthews, North Carolina 28105, **Robert Duncan Doverspike**, a citizen of the United States of America, residing at 63 Surrey Lane, Tinton Falls, New Jersey 07724, **Monica Naukam Gerhardstein**, a citizen of the United States of America, residing at 2261 Kristin Drive, Troy, Michigan 48084, **Dongmei Wang**, a citizen of China, residing at 23A Plain Street, Madison, New Jersey 07940, and **Dahai Xu**, a citizen of China, residing at 5 Oskar Court, Livingston, New Jersey 07039; hereinafter called the "Assignors," have made the invention described in the United States patent application entitled "**Physically-Diverse Routing In Heterogeneous Optical Networks**", **Attorney Docket No. : 2009-1482**, 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 therefor 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.

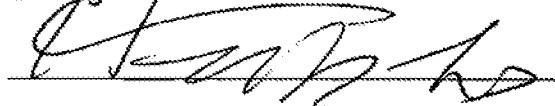
AND said Assignors authorize and request the Commissioner of Patents to issue Letters Patent on said application, and on any all divisions and continuations thereof, to said Assignee, its assigns and legal representatives, in accordance with the terms of this Assignment.

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

Name of Inventor:

Guangzhi Li

Signature of Inventor:



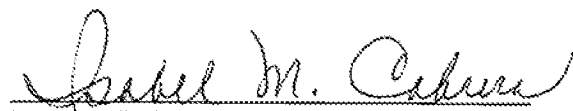
Date: 12/02/2010

United States of America)

State of New Jersey)

County of Morris)

On this 2 day of December, 2010, before me personally came **Guangzhi Li** to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.


Notary Public

ISABEL M. CABRERA
NOTARY PUBLIC OF NEW JERSEY
I.D. # 2389780
My Commission Expires 9/24/2014

Name of Inventor: Angela Lan Chiu

Signature of Inventor: _____

Date: 12/6/10

United States of America)

State of New Jersey)

County of Monmouth)

On this 6 day of December, 2010, before me personally came **Angela Lan Chiu** to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Karen M. Credle
Notary Public

KAREN M. CREDLE
A NOTARY OF NEW JERSEY
MY COMMISSION EXPIRES AUGUST 25, 2013

Attorney Docket Number: 2009-1482

Name of Inventor:

Chris Dailey

Signature of Inventor:



Date: 12/1/10

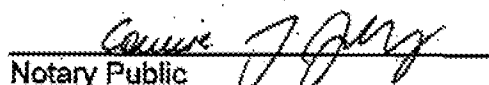
United States of America)

State of North Carolina)

County of Mecklenburg)

On this 09th day of December, 2010, before me personally came
Chris Dailey to me known to be the individual described in and who executed the
foregoing instrument, and acknowledged execution of the same.




Notary Public

Commission exp. 08/06/2014

Name of Inventor:

Robert Duncan Doverspike

Signature of Inventor:

Robert Duncan Doverspike

Date: 12/7/10

United States of America

)

State of New Jersey

)

County of Monmouth

)

On this 7 day of December, 2010, before me personally came **Robert Duncan Doverspike** to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Karen M. Credle
Notary Public

**KAREN M. CREDLE
A NOTARY OF NEW JERSEY
MY COMMISSION EXPIRES AUGUST 25, 2013**

Name of Inventor: Monica Naukam Gerhardstein

Signature of Inventor: Monica Naukam Gerhardstein

Date: 12/10/10

United States of America)

State of Michigan)

County of Oakland)

On this 10 day of December, 2010, before me personally came **Monica Naukam Gerhardstein** to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Heather Demaree
Notary Public

HEATHER DEMAREE
NOTARY PUBLIC, STATE OF MI
COUNTY OF OAKLAND
MY COMMISSION EXPIRES Dec 23, 2015
SITING IN COUNTY OF Oakland

Name of Inventor: Dongmei Wang

Signature of Inventor:

Dongmei Wang

Date: 12/02/2010

United States of America)

State of New Jersey)

County of Morris)

On this 2 day of December, 2010, before me personally came **Dongmei Wang** to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Isabel M. Cabrera

Notary Public

ISABEL M. CABRERA
NOTARY PUBLIC OF NEW JERSEY
I.D. # 2389780
My Commission Expires 9/24/2014

Name of Inventor:

Dahai Xu

Signature of Inventor:

Dahai Xu

Date: 12/3/2010

United States of America)

State of New Jersey)

County of Morris)

On this 3rd day of December, 2010, before me personally came **Dahai Xu** to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Nancy L. Ridge
Notary Public

Nancy L Ridge
Notary Public
New Jersey
My Commission Expires 6-13-2015

AT&T Legal Department
One AT&T Way, Rm. 2A-207
Bedminster, New Jersey 07921