

**PATENT ASSIGNMENT**

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SUBMISSION TYPE:	NEW ASSIGNMENT																
NATURE OF CONVEYANCE:	ASSIGNMENT																
<b>CONVEYING PARTY DATA</b>																	
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Zhijian Xu</td> <td>09/08/2009</td> </tr> <tr> <td>Chee Ching</td> <td>09/17/2009</td> </tr> <tr> <td>Kevin D'Souza</td> <td>09/16/2009</td> </tr> <tr> <td>Joseph Lu</td> <td>09/22/2009</td> </tr> <tr> <td>David H. Lu</td> <td>09/24/2009</td> </tr> <tr> <td>Chen-Yui Yang</td> <td>09/08/2009</td> </tr> <tr> <td>Leah Li Zhang</td> <td>09/16/2009</td> </tr> </tbody> </table>		Name	Execution Date	Zhijian Xu	09/08/2009	Chee Ching	09/17/2009	Kevin D'Souza	09/16/2009	Joseph Lu	09/22/2009	David H. Lu	09/24/2009	Chen-Yui Yang	09/08/2009	Leah Li Zhang	09/16/2009
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<b>RECEIVING PARTY DATA</b>																	
Name:	AT&T Intellectual Property I, L.P., a Nevada Partnership																
Street Address:	645 E. Plumb Lane																
City:	Reno																
State/Country:	NEVADA																
Postal Code:	89502																
<b>PROPERTY NUMBERS Total: 1</b>																	
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12567312</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12567312												
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<b>CORRESPONDENCE DATA</b>																	
Fax Number:	(312)580-9696																
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>																	
Phone:	312-580-1020																
Email:	pmelsa@hfzlaw.com																
Correspondent Name:	Hanley, Flight & Zimmerman, LLC																
Address Line 1:	150 S. Wacker Drive, Suite 2100																
Address Line 4:	Chicago, ILLINOIS 60606																
ATTORNEY DOCKET NUMBER:	20103/2008-1738																

OP \$40.00 12567312

**500973383**

**PATENT  
 REEL: 023289 FRAME: 0704**

NAME OF SUBMITTER:

Peter J. Melsa

**Total Attachments: 8**

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# ASSIGNMENT

Serial No: 12/567,312  
Filed: September 25, 2009  
Title: METHODS, APPARATUS AND ARTICLES OF MANUFACTURE TO MONITOR  
COMMUNICATION PATHS WITHIN COMMUNICATION SYSTEMS

For good and valuable consideration, the receipt and sufficiency whereof are hereby acknowledged, the undersigned hereby assigns to AT&T INTELLECTUAL PROPERTY I, L.P., a Nevada Partnership, 645 E. Plumb Lane, Reno, Nevada 89502 (hereinafter "Assignee"), its successors and assigns, the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for Letters Patent of the United States (which may be a Patent Cooperation Treaty international application designating the United States) and in said application and any and all other applications, United States, international and/or foreign, which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and/or foreign countries, which may be obtained on any of said applications, and in any reissue or extension thereof.

The undersigned hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

The undersigned hereby authorizes and requests the attorneys of record in said application to insert in this assignment the execution date and/or filing date and serial number of any such application(s) when officially known.

The undersigned warrants himself to be the owner of the interest herein assigned and to have the right to make this assignment and further warrants that there are no outstanding prior assignments, licenses, or other rights in the interest herein assigned.

For said consideration the undersigned hereby agrees, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all international, divisional, continuation, continuation-in-part and substitute applications for said invention or improvements, and any necessary oath or affidavit relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application, and any and all applications and other documents for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns, may deem necessary or expedient, and for said consideration the undersigned further agrees upon the request of said assignee, its successors or assigns, in the event of any application or Letters Patent assigned herein becoming involved in Interference, to cooperate to the best of the ability of the undersigned with said assignee, its successors or assigns, in the matters of preparing and executing the preliminary statement and giving and producing evidence in support thereof, the undersigned hereby agreeing to perform, upon request, any and all affirmative acts to obtain said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in said assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by said assignee, its successors and

**Inventor 1**

WITNESS my hand this 8th day of Sept, 2009

State of GA

County of Pulston

[Signature]  
Zhijian Xu

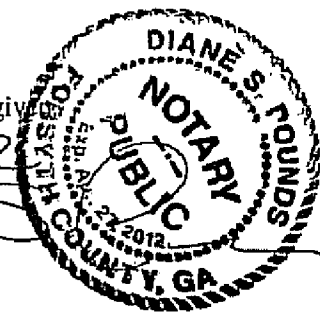
On this 8 day of Sept, \_\_\_\_\_, before me, a Notary Public in and for the County and State aforesaid, appeared Zhijian Xu, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the same day and year last above given

My Commission Expires: 04/27/2012

Notary Public:

[Signature]



\*\*\*\*\*

**Inventor 1**

WITNESS my hand this \_\_\_\_\_ day of \_\_\_\_\_,

State of \_\_\_\_\_

County of \_\_\_\_\_

\_\_\_\_\_  
Zhijian Xu

On this \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me, a Notary Public in and for the County and State aforesaid, appeared Zhijian Xu, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the same day and year last above given.

My Commission Expires: \_\_\_\_\_

Notary Public: \_\_\_\_\_

\* \* \* \* \*

**Inventor 2**

WITNESS my hand this 17th day of September, 2009

State of New Jersey

County of Monmouth

\_\_\_\_\_  
Chee Ching

On this 17 day of September, 2009, before me, a Notary Public in and for the County and State aforesaid, appeared Chee Ching, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the same day and year last above given.

My Commission Expires:

\_\_\_\_\_  
Karen M. Credle

Notary Public:

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

Inventor 3

WITNESS my hand this 16 day of September, 2009.

State of New Jersey

County of Monmouth

Kevin D'Souza  
Kevin D'Souza

On this 16 day of September, 2009, before me, a Notary Public in and for the County and State aforesaid, appeared Kevin D'Souza, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the same day and year last above given.

My Commission Expires:

Karen M Credle

Notary Public:

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

Inventor 4

WITNESS my hand this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_.

State of \_\_\_\_\_

County of \_\_\_\_\_

\_\_\_\_\_  
Joseph Lu

On this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me, a Notary Public in and for the County and State aforesaid, appeared Joseph Lu, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the same day and year last above given.

My Commission Expires: \_\_\_\_\_

Notary Public: \_\_\_\_\_

\*\*\*\*\*

**Inventor 3**

WITNESS my hand this \_\_\_\_\_ day of \_\_\_\_\_,

State of \_\_\_\_\_

County of \_\_\_\_\_

\_\_\_\_\_  
Kevin D'Souza

On this \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me, a Notary Public in and for the County and State aforesaid, appeared Kevin D'Souza, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the same day and year last above given.

My Commission Expires: \_\_\_\_\_

Notary Public: \_\_\_\_\_

\*\*\*\*\*

**Inventor 4**

WITNESS my hand this 22 day of September, 2009.

State of New Jersey

County of Monmouth

Joseph Lu  
Joseph Lu

On this 22 day of September, 2009, before me, a Notary Public in and for the County and State aforesaid, appeared Joseph Lu, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the same day and year last above given.

My Commission-Expires: 8-25-2013

Notary Public: Karen M. Credle

\*\*\*\*\*

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

Inventor 5

WITNESS my hand this 24 day of September, 2009.

State of New Jersey

County of Monmouth

[Signature]  
David H. Lu

On this 24 day of Sept, 2009 before me, a Notary Public in and for the County and State aforesaid, appeared David H. Lu, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the same day and year last above given.

My Commission Expires: 3/6/12

**ANGELA F. SMITH  
A NOTARY OF NEW JERSEY  
MY COMMISSION EXP MARCH 6, 2012**

Notary Public: Angela F. Smith

\*\*\*\*\*

Inventor 6

WITNESS my hand this \_\_\_\_\_ day of \_\_\_\_\_.

State of \_\_\_\_\_

County of \_\_\_\_\_

\_\_\_\_\_  
Chen-Yui Yang

On this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me, a Notary Public in and for the County and State aforesaid, appeared Chen-Yui Yang, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the same day and year last above given.

My Commission Expires: \_\_\_\_\_

Notary Public: \_\_\_\_\_

\*\*\*\*\*



**Inventor 5**

WITNESS my hand this \_\_\_\_\_ day of \_\_\_\_\_,

State of \_\_\_\_\_

County of \_\_\_\_\_

\_\_\_\_\_  
David H. Lu

On this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me, a Notary Public in and for the County and State aforesaid, appeared David H. Lu, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the same day and year last above given.

My Commission Expires: \_\_\_\_\_

Notary Public: \_\_\_\_\_

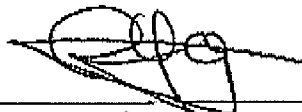
\*\*\*\*\*

**Inventor 6**

WITNESS my hand this \_\_\_\_\_ day of \_\_\_\_\_,

State of \_\_\_\_\_

County of \_\_\_\_\_


  
\_\_\_\_\_  
Chen-Yui Yang

9-8-09

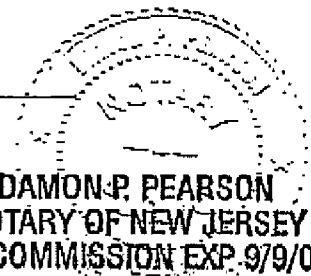
On this <sup>th</sup> 8 day of September, 2009, before me, a Notary Public in and for the County and State aforesaid, appeared Chen-Yui Yang, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the same day and year last above given.

My Commission Expires: 9/9/2009

Notary Public: 

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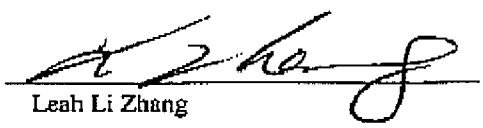
  
DAMON P. PEARSON  
NOTARY OF NEW JERSEY  
MY COMMISSION EXP. 9/9/09

**Inventor 7**

WITNESS my hand this 16 day of September, 2009.

State of New Jersey

County of Monmouth

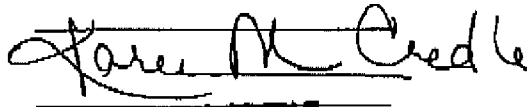
  
Leah Li Zhang

On this 16 day of September, 2009, before me, a Notary Public in and for the County and State aforesaid, appeared Leah Li Zhang, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the same day and year last above given.

My Commission Expires:

Notary Public:

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