

**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>Kadangode K Ramakrishnan</td> <td>01/18/2006</td> </tr> <tr> <td>Shivkumar Kalyanaraman</td> <td>02/02/2006</td> </tr> <tr> <td>Vijaynarayanan Subramanian</td> <td>02/02/2006</td> </tr> <tr> <td>Omesh Tickoo</td> <td>03/02/2006</td> </tr> </tbody> </table>		Name	Execution Date	Kadangode K Ramakrishnan	01/18/2006	Shivkumar Kalyanaraman	02/02/2006	Vijaynarayanan Subramanian	02/02/2006	Omesh Tickoo	03/02/2006
Name	Execution Date										
Kadangode K Ramakrishnan	01/18/2006										
Shivkumar Kalyanaraman	02/02/2006										
Vijaynarayanan Subramanian	02/02/2006										
Omesh Tickoo	03/02/2006										
<b>RECEIVING PARTY DATA</b>											
<b>Name:</b>	AT&T Corp.										
<b>Street Address:</b>	32 Avenue of the Americas										
<b>City:</b>	New York										
<b>State/Country:</b>	NEW YORK										
<b>Postal Code:</b>	10013-2412										
<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>11290807</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	11290807						
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Application Number:	11290807										
<b>CORRESPONDENCE DATA</b>											
<b>Fax Number:</b>	(202)824-3001										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
<b>Phone:</b>	202-824-3000										
<b>Email:</b>	ssiu@bannerwitcoff.com										
<b>Correspondent Name:</b>	Stephen Siu										
<b>Address Line 1:</b>	1001 G Street, NW										
<b>Address Line 2:</b>	11th Floor										
<b>Address Line 4:</b>	Washington, DISTRICT OF COLUMBIA 20001										
<b>ATTORNEY DOCKET NUMBER:</b>	003493.00418										
<b>NAME OF SUBMITTER:</b>	Stephen C. Siu										

**CH \$40.00 11290807**

**Total Attachments: 9**

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## ASSIGNMENT AND AGREEMENT


For value received, I, Kadangode K. Ramakrishnan, of Berkeley Heights in the County of Union and State of New Jersey, hereby sell, assign and transfer to AT&T Corp., a corporation of the State of New York, having an office at 32 Avenue of the Americas, New York, New York 10013-2412, U.S.A., and its successors, assigns and legal representatives, the entire right, title and interest, for the United States of America, in and to certain inventions related to **LOSS TOLERANT TRANSMISSION CONTROL PROTOCOL** described in an application for Letters Patent of the United States, which was filed on December 1, 2005 and given U.S. Serial Number 11/290,807, and all the rights and privileges in said application and under any and all Letters Patent that may be granted in the United States for said inventions; and I also concurrently hereby sell, assign and transfer to AT&T Corp. the entire right, title and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.

I authorize AT&T Corp. to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from us, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of AT&T Corp. to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

I request that any and all patents for said inventions be issued to AT&T Corp. in the United States and in all countries foreign to the United States, or to such nominees as AT&T Corp. may designate.

I agree that, when requested, I shall, without charge to AT&T Corp. but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.



Kadangode K. Ramakrishnan

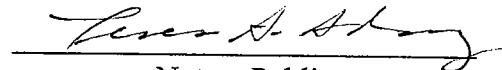
Date: Jan 18, 2006.

United States of America )

State of NEW JERSEY )

County of MORRIS )

On this 18<sup>th</sup> day of JANUARY, 2006, before me personally came Kadangode K. Ramakrishnan, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



Notary Public

**TERESA A. ADAMCZYK**  
**NOTARY PUBLIC OF NEW JERSEY**  
Commission Expires 7/23/2007

AT&T Corp.  
Room 2A-207  
One AT&T Way  
Bedminster, New Jersey 07921

## ASSIGNMENT AND AGREEMENT

For value received, we, Shivkumar Kalyanaraman, of Niskayuna in the County of Schenectady and State of New York, Vijaynarayanan Subramanian, of Troy in the County of Rensselaer and State of New York, and Omesh Tikoo, of Hillsboro in the County of Washington and State of Oregon, hereby sell, assign and transfer to Rensselaer Polytechnic Institute, having an office at 110 8<sup>th</sup> Street, J-Building, Troy, New York, 12180-3590, U.S.A., and its successors, assigns and legal representatives, the entire right, title and interest, for the United States of America, in and to certain inventions related to **LOSS TOLERANT TRANSMISSION CONTROL PROTOCOL** described in an application for Letters Patent of the United States, which was filed on December 1, 2005 and given U.S. Serial Number 11/290,807, and all the rights and privileges in said application and under any and all Letters Patent that may be granted in the United States for said inventions; and we also concurrently hereby sell, assign and transfer to Rensselaer Polytechnic Institute the entire right, title and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.

We authorize Rensselaer Polytechnic Institute to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from us, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of Rensselaer Polytechnic Institute to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

We request that any and all patents for said inventions be issued to Rensselaer Polytechnic Institute in the United States and in all countries foreign to the United States, or to such nominees as Rensselaer Polytechnic Institute may designate.

We agree that, when requested, we shall, without charge to Rensselaer Polytechnic Institute but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.



Shivkumar Kalyanaraman

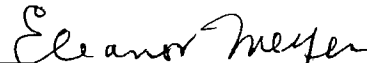
Date: 2nd Feb 2006

United States of America )

State of NEW YORK )

County of SCHENECTADY )

On this 2<sup>ND</sup> day of February, 2006, before me personally came Shivkumar Kalyanaraman, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

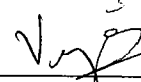


Notary Public

ELEANOR F. MEYER  
Notary Public, State of New York  
Residing in Albany County  
Commission Expires Mar. 30, ~~2006~~

4609048

2007



Vijayarayanan Subramanian

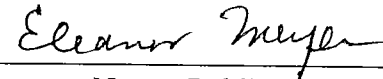
Date: 02/02/06

United States of America )

State of New York )

County of Rensselaer )

On this 2<sup>ND</sup> day of February, 2006, before me personally came Vijayarayanan Subramanian, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



Notary Public

ELEANOR F. MEYER  
Notary Public, State of New York  
Residing in Albany County  
Commission Expires Mar. 30, ~~19~~  
4609048 - 2007

Docket No. 003493.00418  
IDS 2005-0162

## ASSIGNMENT AND AGREEMENT

For value received, we, Shivkumar Kalyanaraman, of Niskayuna in the County of Schenectady and State of New York, Vijayarayanan Subramanian, of Troy in the County of Rensselaer and State of New York, and Omesh Tickoo, of Hillsboro in the County of Washington and State of Oregon, hereby sell, assign and transfer to Rensselaer Polytechnic Institute, having an office at 110 8<sup>th</sup> Street, J-Building, Troy, New York, 12180-3590, U.S.A., and its successors, assigns and legal representatives, the entire right, title and interest, for the United States of America, in and to certain inventions related to **LOSS TOLERANT TRANSMISSION CONTROL PROTOCOL** described in an application for Letters Patent of the United States, which was filed on December 1, 2005 and given U.S. Serial Number 11/290,807, and all the rights and privileges in said application and under any and all Letters Patent that may be granted in the United States for said inventions; and we also concurrently hereby sell, assign and transfer to Rensselaer Polytechnic Institute the entire right, title and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.

We authorize Rensselaer Polytechnic Institute to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from us, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of Rensselaer Polytechnic Institute to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

We request that any and all patents for said inventions be issued to Rensselaer Polytechnic Institute in the United States and in all countries foreign to the United States, or to such nominees as Rensselaer Polytechnic Institute may designate.



Docket No. 003493.00418  
IDS 2005-0162

We agree that, when requested, we shall, without charge to Rensselaer Polytechnic Institute but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.

\_\_\_\_\_  
Shivkumar Kalyanaraman

Date: \_\_\_\_\_

United States of America )

State of )

County of )

On this \_\_\_\_\_ day of \_\_\_\_\_, 2006, before me personally came Shivkumar Kalyanaraman, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

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

Docket No. 003493.00418  
IDS 2005-0162

\_\_\_\_\_  
Vijaynarayanan Subramanian

Date: \_\_\_\_\_

United States of America )

State of )

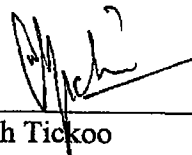
County of )

On this \_\_\_\_\_ day of \_\_\_\_\_, 2006, before me personally came Vijaynarayanan Subramanian, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

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



Docket No. 003493.00418  
IDS 2005-0162



\_\_\_\_\_  
Omesh Tickoo

Date: 3/2/2006

United States of America )

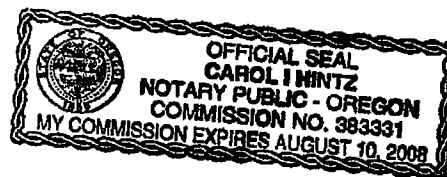
State of Oregon )

County of Washington )

On this 2 day of March, 2006, before me personally came Omesh Tickoo to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



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



Rensselaer Polytechnic Institute  
110 8<sup>th</sup> Street, J-Building  
Troy, NY 12180-3590