

**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>Albert T. Chow</td> <td>09/25/2002</td> </tr> <tr> <td>Kenny X. Huang</td> <td>09/17/2002</td> </tr> <tr> <td>Jinman Kim</td> <td>11/09/2002</td> </tr> <tr> <td>Robert R. Miller</td> <td>09/17/2002</td> </tr> <tr> <td>Wenchu Ying</td> <td>09/17/2002</td> </tr> </tbody> </table> |   | Name          | Execution Date | Albert T. Chow      | 09/25/2002 | Kenny X. Huang | 09/17/2002 | Jinman Kim | 11/09/2002 | Robert R. Miller | 09/17/2002 | Wenchu Ying | 09/17/2002 |
| Name   | Execution Date                              |               |                |                     |            |                |            |            |            |                  |            |             |            |
| Albert T. Chow   | 09/25/2002                                  |               |                |                     |            |                |            |            |            |                  |            |             |            |
| Kenny X. Huang   | 09/17/2002                                  |               |                |                     |            |                |            |            |            |                  |            |             |            |
| Jinman Kim   | 11/09/2002                                  |               |                |                     |            |                |            |            |            |                  |            |             |            |
| Robert R. Miller   | 09/17/2002                                  |               |                |                     |            |                |            |            |            |                  |            |             |            |
| Wenchu Ying  | 09/17/2002                                  |               |                |                     |            |                |            |            |            |                  |            |             |            |
| <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>11743750</td> </tr> </tbody> </table>  |   | Property Type | Number         | Application Number: | 11743750   |                |            |            |            |                  |            |             |            |
| Property Type  | Number                                      |               |                |                     |            |                |            |            |            |                  |            |             |            |
| Application Number:  | 11743750                                    |               |                |                     |            |                |            |            |            |                  |            |             |            |
| <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>  | 2028243000                                  |               |                |                     |            |                |            |            |            |                  |            |             |            |
| <b>Email:</b>  | lsunderland@bannerwitcoff.com               |               |                |                     |            |                |            |            |            |                  |            |             |            |
| <b>Correspondent Name:</b>   | Banner Witcoff, Ltd.                        |               |                |                     |            |                |            |            |            |                  |            |             |            |
| <b>Address Line 1:</b>   | 1100 13th Street NW, 12th Floor             |               |                |                     |            |                |            |            |            |                  |            |             |            |
| <b>Address Line 4:</b>   | Washington, DISTRICT OF COLUMBIA 20005-4051 |               |                |                     |            |                |            |            |            |                  |            |             |            |
| <b>ATTORNEY DOCKET NUMBER:</b>   | 3493.00559 JMF                              |               |                |                     |            |                |            |            |            |                  |            |             |            |
| <b>NAME OF SUBMITTER:</b>  | John M. Fleming                             |               |                |                     |            |                |            |            |            |                  |            |             |            |

CH \$40.00 11743750

Total Attachments: 6

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ASSIGNMENT AND AGREEMENT

For value received, each of the undersigned, Albert T. Chow of Hillsdale in the County of Bergen and State of New Jersey, Kenny X. Huang of Somerset in the County of Somerset and State of New Jersey, Jinman Kim of Chatham in the County of Morris and State of New Jersey, Robert R. Miller of Convent Station in the County of Morris and State of New Jersey and Wenchu Ying of Cedar Knolls in the County of Morris and State of New Jersey, hereby sells, assigns and transfers 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, United States of America, and its successors, assignees and legal representatives, the entire right, title and interest, for the United States of America, in and to certain inventions related to

**SYSTEM FOR ACCESSING END-TO-END BROADBAND  
NETWORK VIA NETWORK ACCESS SERVER PLATFORM**

described in an application for Letters Patent of the United States of America,

for which an application for a United States Patent was executed on \_\_\_\_\_.

for which an application for a United States Patent was filed on July 8, 2002,  
Application Number 10/189,776.

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 the undersigned 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.

The undersigned 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 the undersigned, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

The undersigned 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.

The undersigned 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.

The undersigned agree that, when requested, the undersigned 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.

  
Albert T. Chow

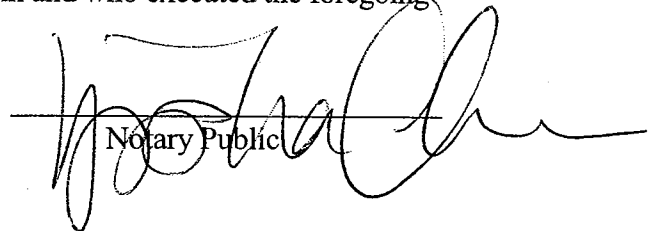
Date: 9/25/2002

United States of America )

State of New Jersey ) ss:

County of Bergen )

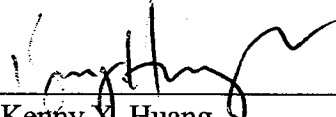
On this 25<sup>th</sup> day of Sept., 2002, before me personally came Albert T. Chow, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

  
Notary Public

**YING HA CHEN**  
**NOTARY PUBLIC OF NEW JERSEY**  
**Commission Expires 12/23/2003**

IDS 2001-0183  
03493.00518

The undersigned agree that, when requested, the undersigned 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.

  
Kenny X. Huang

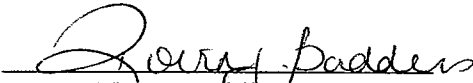
Date: 9/17/2002

United States of America )

State of New Jersey ) ss:


County of Morris )

On this 14 day of September, 2002, before me personally came Kenny X. Huang, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

  
Notary Public

**ROBIN J. BADDERS**  
**NOTARY PUBLIC OF NEW JERSEY**  
**Commission Expires 11/30/2003**

The undersigned agree that, when requested, the undersigned 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.

  
\_\_\_\_\_  
Jinman Kim

Date: Nov. 9, 2002

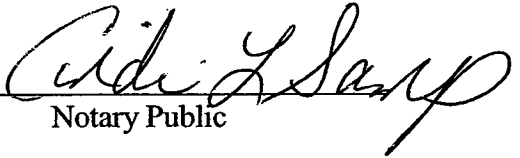
United States of America )

State of New Jersey ) ss:

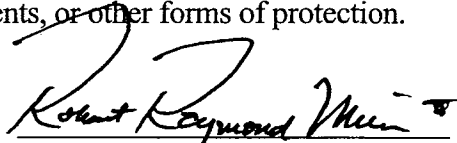
County of Morris )

On this 9th day of November, 2002, before me personally came Jinman Kim, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



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

The undersigned agree that, when requested, the undersigned 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.

  
Robert R. Miller

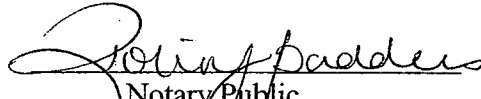
Date: 9/17/02

United States of America )

State of New Jersey ) ss:

County of Morris )

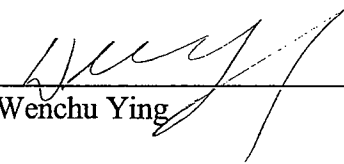
On this 17 day of September, 2002, before me personally came Robert R. Miller, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

  
Notary Public

**ROBIN J. BADDERS**  
**NOTARY PUBLIC OF NEW JERSEY**  
**Commission Expires 11/30/2003**

IDS 2001-0183  
03493.00518

The undersigned agree that, when requested, the undersigned 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.

  
Wenchu Ying

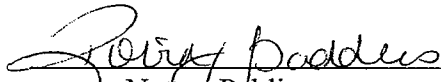
Date: 9/17/2002

United States of America )

State of New Jersey ) ss:

County of Morris )

On this 17 day of September, 2002, before me personally came Wenchu Ying, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

  
Notary Public

**ROBIN J. BADDERS**  
**NOTARY PUBLIC OF NEW JERSEY**  
**Commission Expires 11/30/2003**