| 500M PTO 4505 PT 06 - 2 | 26-2002 |
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| (Rev. 5-93) OMB No. 0651-0011 (exp. 4/94) | U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office |
| Tab settings ⇒ ⇒ ▼ | 134795 ched original documents or copy thereof. |
| TO THE HOLICIANIC COMMINICOLORIC OF THE GROUP COMMINICOLORIC COMMI | 2. Name and address of receiving party(ies): |
| 1. Name of conveying party(ies): FFICE UP 19 | 2. Name and address of receiving party(les). |
| Kanjan V. Sonarker | Name: AT&T Corporation |
| SINANCE SECTION | Internal Address 22 4 Cd A |
| 6.19102 INANCE SECTION | Internal Address: 32 Avenue of the Americas |
| Additional name(s) of conveying party(ies) attached? | |
| 3. Nature of conveyance: | |
| Assignment Merger | Street Address: |
| | |
| | |
| Other | City: <u>New York</u> State: <u>NY</u> ZIP: <u>10013-2412</u> |
| Execution Date: May 29, 2002 | Additional name(s) & address(es) attached? |
| 4. Application number(s) or patent number(s): | |
| If this document is being filed together with a new application | on the execution date of the application is: |
| | |
| A. Patent Application No.(s) | B. Patent No.(s) |
| 10/113,507 | |
| | |
| Additional numbers at | tached? Yes X No |
| | |
| 5. Name and address of party to whom correspondence | |
| concerning document should be mailed: | 6. Total number of applications and patents involved: |
| Name: Thomas H. Jackson | |
| | 7. Total fee (37 CFR 3.41) \$ 40.00 |
| Internal Address: Banner & Witcoff, Ltd. | Enclosed |
| 1001 G Street, N.W. | _ |
| | X Authorized to be charged to deposit account |
| 11th Floor | |
| Street Address: | - 8. Deposit account number: |
| | · |
| | |
| Westington 20001456 | 19-0733 |
| City: Washington State: DC zp: 20001-459 | |
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| DO NO | (Attach duplicate copy of this page if paying by deposit account) |
| 9. Statement and signature. | (Attach duplicate copy of this page if paying by deposit account) |
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| 9. Statement and signature. To the best of my knowledge and belief, the foregoing inforthe original document. Joseph Stecewycz, Reg. No. 34,442 Name of Person Signing 06/25/2002 DBYRNE 00000201 190733 10613507 mber of pages including | (Attach duplicate copy of this page if paying by deposit account) T USE THIS SPACE mation is true and correct and any attached copy is a true copy of the copy o |

ASSIGNMENT AND AGREEMENT

For value received, the undersigned, Ranjan V. Sonalkar, Of 10 Harding Avenue, North Caldwell in the County of Essex and the State of New Jersey 07006 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

MULTIUSER ALLOCATION SCHEME FOR DMT-BASED MODEMS FOR MAXIMIZING THE TOTAL BINDER DATA TRANSMISSION CAPACITY

| 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 <u>01 April 2002</u> , Application Number <u>10/113507</u> |
| 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 sells |

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 sells, assigns and transfers 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 authorizes 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 consents 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 requests 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 designated.

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PATENT REEL: 013013 FRAME: 0083 The undersigned agrees 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.

Ranjan V. Sopalkar

Date: May 29, 2002

United States of America

State of New Jersey) ss:

County of Morris Canden)

RECORDED: 06/19/2002

On this day of Ma; 2002, before me personally came Ranjan V. Sonalkar, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

)

Notary Public

BARBARA A. POWELL L'OTARY PUBLIC OF NEW JERSEY MY COMMISSION ENGINES FEB. 27, 2005