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3 SHEET

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

1 of 2

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Sanjay Agraharam
Robert Edward Markowitz
Kenneth H. Rosen

9.14.98

Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)

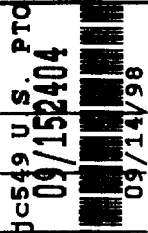
Name: AT&T Corp.

Internal Address: _____

Street Address: 32 Avenue of the Americas

City: New York State: NY ZIP: 10013-2412

Additional name(s) & address(es) attached? Yes No



3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other _____

Execution Date: 9/10/98; 8/24/98; 8/26/98;
8/26/98; 8/27/98

4. Application number(s) or patent number(s):

9/10/98;
8/24/98;
8/26/98;
8/26/98;
8/27/98

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)

B. Patent No.(s)

09/152404

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Mr. S. H. Dworetsky

Internal Address: AT&T Corp.

Street Address: P. O. Box 4110

City: Middletown State: NJ ZIP: 07748-4801

6. Total number of applications and patents involved:

7. Total fee (37 CFR 3.41).....\$ 40.00

- Enclosed
- Authorized to be charged to deposit account

8. Deposit account number:

01-2745

(Attach duplicate copy of this page if paying by deposit account)

09/21/1998 JSHWDAZZ 00000001 012745 09152404

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Ann E. Taylor

Ann E. Taylor

Sept. 14, 1998

Name of Person Signing

Signature

8

Date

Agraharam 16-49-44-22-7 Total number of pages including cover sheet, attachments, and document:

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

David Hilton Shur
Joel A. Winthrop

Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)

Name: AT&T Corp.

Internal Address: _____

Street Address: 32 Avenue of the Americas

City: New York State: NY ZIP: 10013-2412

Additional name(s) & address(es) attached? Yes No

10549 U.S. PTO
09/15/94
09/14/98

3. Nature of conveyance:

- Assignment Merger
 Security Agreement Change of Name
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Name of Person Signing

Signature

Date

Agraharam 16-49-44-22-7 Total number of pages including cover sheet, attachments, and document:

ASSIGNMENT AND AGREEMENT

For value received, we, Sanjay Agraharam, of Marlboro in the County of Monmouth and State of New Jersey, Robert Edward Markowitz, of Glen Rock in the County of Bergen and State of New Jersey, Kenneth H. Rosen, of Middletown in the County of Monmouth and State of New Jersey, David Hilton Shur, of Aberdeen in the County of Monmouth and State of New Jersey, and Joel A. Winthrop, of Little Silver in the County of Monmouth 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 **Method And Apparatus To Enhance A Multicast Information Stream In A Communication Network** described in an application for Letters Patent of the United States, executed by us of even date herewith, 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 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.

We 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.

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 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.

We 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.

S. Agraharam 16-49-44-22-7

We agree that, when requested, we 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.

Sanjay Agraharam
Sanjay Agraharam

Date: 9/10/98

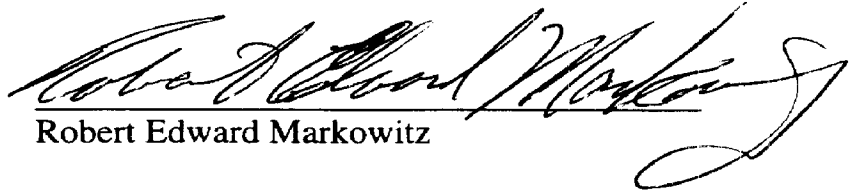
United States of America)
State of New Jersey) ss.:
County of Monmouth)

On this 10th day of September, 1998, before me personally came Sanjay Agraharam, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Geraldine F. Mohan
Notary Public

NOTARY PUBLIC STATE OF NEW JERSEY
EXPIRES 09/30/2002

S. Agraharam 16-49-44-22-7


Robert Edward Markowitz

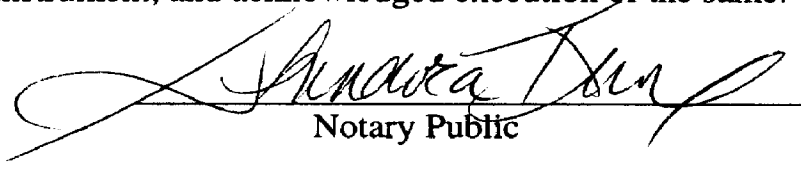
Date: 8/24/98

United States of America)

State of New Jersey) ss.:

County of Somerset)

On this 24th day of August, 19 98, before me personally came Robert Edward Markowitz, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.


Notary Public

SHINDORA KNOX
NOTARY PUBLIC OF NEW JERSEY
Commission Expires Jan 17, 2001

S. Agraharam 16-49-44-22-7

Kenneth H. Rosen
Kenneth H. Rosen

Date: 8/26/98

United States of America)
State of New Jersey) ss.:
County of Monmouth)

On this 26 day of August, 1998, before me personally came Kenneth H. Rosen, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Geraldene F. Mohan
Notary Public
NOTARY PUBLIC OF THE STATE OF NEW JERSEY
My Commission Expires May 2, 1998 2002

S. Agraharam 16-49-44-22-7

David Hilton Shur
David Hilton Shur

Date: 8/26/98

United States of America)

State of New Jersey) ss.:

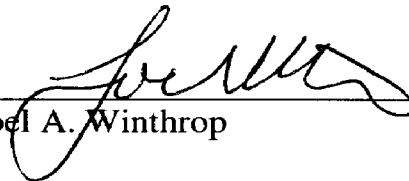
County of Monmouth)

On this 26 day of August, 1998, before me personally came David Hilton Shur, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Geraldine F. Mahan
Notary Public

G. MAHAN
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires May 2, ~~1998~~ 2002

S. Agraharam 16-49-44-22-7

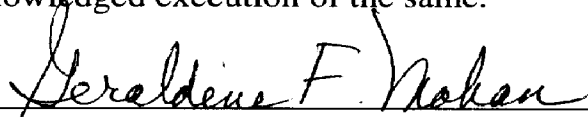


Joel A. Winthrop

Date: 8/27/98

United States of America)
State of New Jersey) ss.:
County of Monmouth)

On this 27 day of August, 1998, before me personally came Joel A. Winthrop, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



Notary Public

NOTARY PUBLIC OF NEW JERSEY
My Commission Expires May 2, ~~1998~~ 2002

AT&T Corp.
P. O. Box 4110
Middletown, New Jersey 07748