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11/30/99

12-07-1999



FORM PTO-1596  
1-31-92

R

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

Docket No.: 50107-418

101216036  
PATENT OFFICE

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

1. Name of Conveying Party(ies):

Frederick G. Holman and James Everett Sylvester

Additional name(s) of conveying party(ies) attached? ☐ Yes

3. Nature of Conveyance:

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Other

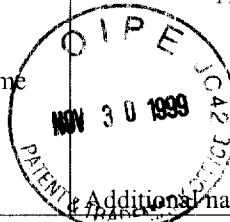
Execution Date: 10/29/99 and 11/1/99

2. Name and address of receiving party(ies):

Name: BELL ATLANTIC NETWORK SERVICES, INC.

Address: 1320 North Courth House Road

Arlington, VA 22201



Additional name(s) & address(es) attached? ☐ Yes

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

If the 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).

Additional numbers attached? ☐ Yes

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

Name: MCDERMOTT, WILL & EMERY

Internal Address:

Street Address: 600 13<sup>th</sup> Street, N.W.

City: Washington State: DC Zip: 20005

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41)

\$40.00

☐ Enclosed

☒ Authorized to be charged to deposit account

8. Deposit account number:

500417

DO NOT USE THIS SPACE

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.*

Keith E. George, Registration Number 34,111

Name and Registration No. of Person Signing

Signature

November 30, 1999

Date

Total number of pages comprising cover sheet: 1

CMB No. 0851-0011 (exp. 4/94)

12/06/1999 DNGUYEN 00000211 500417 09234464

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PATENT  
REEL: 010414 FRAME: 0858

ASSIGNMENT

WHEREAS WE, FREDERICK G. HOFMAN and JAMES EVERETT SYLVESTER together with ALLAN SCHNEIDER, as indicated in the Assignment recorded January 21, 1999 at Reel 9723 and Frame 0899, have made a certain new and useful invention as set forth in an application for United States Letters Patent, entitled LOOP CERTIFICATION AND MEASUREMENT FOR ADSL, for which an application for United States Letters Patent was filed on January 21, 1999, and identified by United States Serial No. 09/234,464;

AND WHEREAS, BELL ATLANTIC NETWORK SERVICES, INC., a corporation of the State of Delaware and having an address of 1320 North Court House Road, Arlington, Virginia 22201 is desirous of acquiring the entire right, title and interest in and to said invention and in and to any and all Letters Patent of the United States and foreign countries which may be obtained therefor;

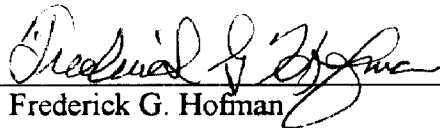
NOW, THEREFORE, for good and valuable consideration, the receipt for and sufficiency of which is hereby acknowledged, We do hereby sell, assign, transfer and set over unto BELL ATLANTIC NETWORK SERVICES, INC., its legal representatives, successors, and assigns, the entire right, title and interest in and to said invention as set forth in the above-mentioned application, including the right of priority and including any continuations, continuations-in-part, divisions, reissues, re-examinations or extensions thereof, and in and to any and all patents of the United States and foreign countries which may be issued for said invention;

UPON SAID CONSIDERATIONS, We hereby agree with the said assignee that We will not execute any writing or do any act whatsoever conflicting with these presents, and that We will, at any time upon request, without further or additional consideration but at the expense of said assignee, execute such additional assignments and other writings and do such additional acts as said assignee may deem necessary or desirable to perfect the assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, continuations, continuations-in-part, reexamined, reissued, or extended Letters Patent of the United States or of any and all foreign countries on said invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, by giving testimony in any proceedings or transactions involving such applications or patents, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of the assigns and legal representatives of assignor and assignee;

AND We request the Commissioner of Patents and Trademarks to issue any Letters Patent of the United States which may be issued for said invention to said BELL ATLANTIC NETWORK SERVICES, INC., its legal representatives, successors or assigns, as the sole owner of the entire right, title and interest in and to said patent and the invention covered thereby.

11-1-99

Date

  
Frederick G. Hofman

Date

James Everett Sylvester

STATE OF PA )  
 ) SS:  
COUNTY OF PHILA )

On this 1st day of November, 1999, before me personally appeared Frederick G. Hofman, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

S E A L

Elaine Jones  
Notary Public  
My commission expires \_\_\_\_\_  
Notarial Seal  
Elaine Jones, Notary Public  
Philadelphia, Philadelphia County  
My Commission Expires Sept. 21, 2000  
Member, Pennsylvania Association of Notaries

STATE OF \_\_\_\_\_ )  
 ) SS:  
COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 1999, before me personally appeared James Everett Sylvester, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

S E A L

\_\_\_\_\_  
Notary Public  
My commission expires \_\_\_\_\_

ASSIGNMENT

WHEREAS WE, FREDERICK G. HOFMAN and JAMES EVERETT SYLVESTER together with ALLAN SCHNEIDER, as indicated in the Assignment recorded January 21, 1999 at Reel 9723 and Frame 0899, have made a certain new and useful invention as set forth in an application for United States Letters Patent, entitled LOOP CERTIFICATION AND MEASUREMENT FOR ADSL, for which an application for United States Letters Patent was filed on January 21, 1999, and identified by United States Serial No. 09/234,464;

AND WHEREAS, BELL ATLANTIC NETWORK SERVICES, INC., a corporation of the State of Delaware and having an address of 1320 North Court House Road, Arlington, Virginia 22201 is desirous of acquiring the entire right, title and interest in and to said invention and in and to any and all Letters Patent of the United States and foreign countries which may be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt for and sufficiency of which is hereby acknowledged, We do hereby sell, assign, transfer and set over unto BELL ATLANTIC NETWORK SERVICES, INC., its legal representatives, successors, and assigns, the entire right, title and interest in and to said invention as set forth in the above-mentioned application, including the right of priority and including any continuations, continuations-in-part, divisions, reissues, re-examinations or extensions thereof, and in and to any and all patents of the United States and foreign countries which may be issued for said invention;

UPON SAID CONSIDERATIONS, We hereby agree with the said assignee that We will not execute any writing or do any act whatsoever conflicting with these presents, and that We will, at any time upon request, without further or additional consideration but at the expense of said assignee, execute such additional assignments and other writings and do such additional acts as said assignee may deem necessary or desirable to perfect the assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, continuations, continuations-in-part, reexamined, reissued, or extended Letters Patent of the United States or of any and all foreign countries on said invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, by giving testimony in any proceedings or transactions involving such applications or patents, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of the assigns and legal representatives of assignor and assignee;

AND We request the Commissioner of Patents and Trademarks to issue any Letters Patent of the United States which may be issued for said invention to said BELL ATLANTIC NETWORK SERVICES, INC., its legal representatives, successors or assigns, as the sole owner of the entire right, title and interest in and to said patent and the invention covered thereby.

Date

*Oct 29, 1999*

Date

Frederick G. Hofman

*James Everett Sylvester*  
James Everett Sylvester

PATENT

REEL: 010414 FRAME: 0861

STATE OF \_\_\_\_\_ )  
 ) SS:  
COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 1999, before me personally appeared Frederick G. Hofman, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

S E A L

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

My commission expires \_\_\_\_\_

STATE OF VIRGINIA )  
 ) SS:  
COUNTY OF ARLINGTON )

On this 29<sup>th</sup> day of October, 1999, before me personally appeared James Everett Sylvester, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

S E A L

Long Phan  
\_\_\_\_\_  
Notary Public

My commission expires April 30, 2000