

2-16-99

02-25-1999

Attorney's Docket: 020533.0162

Sheet 1 of 2

FORM PTO-1595
1-31-92



100972471

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

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

1. Name of Conveying Parties (ALL INDIVIDUALS):
Kenneth A. Lauffenburger
2015 Diamond Ridge Drive
Carrollton, Denton County, Texas 75010
United States of America - Citizenship

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

2. Name and Address of receiving Party:
Name: Efficient Networks, Inc., a Delaware Corporation

Internal Address:
4201 Spring Valley Road, Suite 1200

Street Address:
4201 Spring Valley Road, Suite 1200

City: Dallas State: Texas Zip: 75244-3666

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



3. Nature of conveyance:

<input checked="" type="checkbox"/>	Assignment	<input type="checkbox"/>	Merger
<input type="checkbox"/>	Security Agreement	<input type="checkbox"/>	Change of Name
<input type="checkbox"/>	Other		

Execution Date: 02/02/99, 02/03/99, 02/15/99

4. Application number(s) or patent number(s):
If this document is being filed together with a new application, the execution date of the application is: 02/02/99, 02/03/99, 02/15/99

A. Patent Application No.(s) | B. Patent No.(s)

Additional Numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: Barton E. Showalter, Esq.
Internal Address: BAKER & BOTTS, L.L.P.
Street Address: 2001 Ross Avenue
City: Dallas
State: Texas Zip: 75201-2980

6. Total number of applications and patents involved: One

7. Total Fee (37 CFR 3.41): \$ 40.00
 Enclosed
 Authorized to be charged to deposit account

8. Deposit account number:
(Attach Duplicate Copy of this page if paying by deposit account)

02/25/1999 JSHABAZZ 00000026 09251107
FC:581 40.00 BP

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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.

Barton E. Showalter [Signature] February 16, 1999
Name of Person Signing Signature Date

Total number of pages including cover sheet

OMB No. 0651-0011 (exp.4/94)

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PATENT
REEL: 9776 FRAME: 0032

FORM PTO-1595
ATTACHMENT

1. Name of Conveying Parties (ALL INDIVIDUALS) - Continued

Al Whaley
P. O. Box 60
Palo Alto, California
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United States of America - Citizenship

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Plano, Texas 75023
Collin County
Danish - Citizenship

William A. Perry, Jr.
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Addison, Texas 75001
Dallas County
United States of America - Citizenship

Charles F. Shelor
3308 Hollow Creek Road
Arlington, Texas 76001-5346
Tarrant County
United States of America - Citizenship

ASSIGNMENT

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made, said application having been executed on the date set forth below; and

WHEREAS, Efficient Networks, Inc. (hereinafter referred to as "Assignee"), a Delaware Corporation, with an address of 4201 Spring Valley Road, Suite 1200, Dallas, Texas 75244-3666, desires to acquire my entire right, title and interest in and to the invention, and in and to the said application and any Letters Patent that may issue thereon;

NOW, THEREFORE, for and in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I assign to Assignee, all right, title and interest in and to said invention and in and to said application and all patents which may be granted therefor, and all divisions, reissues, continuations, continuations-in-part and extensions thereof; and I hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as our interest is concerned, to Assignee.

I also assign to Assignee, all right, title and interest to the invention disclosed in said application throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs for said invention in its own name throughout the world including all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries; and I further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such right, title and interest in Assignee.

I will communicate to Assignee any facts known to me respecting any improvements; and, at the expense of Assignee, I will testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and substitute applications, make lawful oaths and declarations, and generally do everything possible to vest title in Assignee and to aid Assignee to obtain and enforce proper protection for said invention in all countries.

This Assignment shall be binding on the parties' successors, assigns and legal representatives.

Title of Invention:

DATA TRANSMISSION SYSTEM AND
METHOD OF OPERATION

Signature of Inventor:
Inventor's Name:


Kenneth A. Lauffenburger

Residence
(City, County, State)

Carrollton, Denton County,
Texas

Date:

2-15-99

Date Application Executed:

2-15-99

Signature of Inventor:
Inventor's Name:


Al Whaley

Residence
(City, County, State)

Palo Alto, Santa Clara County,
California

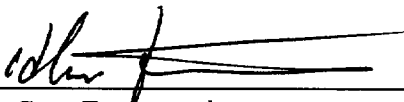
Date:

2/2/99

Date Application Executed:

2/2/99

Signature of Inventor:
Inventor's Name:


Klaus S. Fosmark

Residence
(City, County, State)

Plano, Collin County, Texas

Date:

2/15-99

Date Application Executed:

2/15-99

Signature of Inventor:
Inventor's Name:

William A Perry
William A. Perry, Jr.

Residence
(City, County, State)

Addison, Dallas County, texas

Date:

Feb 3, 1999

Date Application Executed:

Feb 3, 1999

Signature of Inventor:
Inventor's Name:

Charles F. Shelor
Charles F. Shelor

Residence
(City, County, State)

Arlington, Tarrant County, Texas

Date:

Feb 3, 1999

Date Application Executed:

Feb 3, 1999