

04-23-2001



ATTORNEY DOCKET: 062891.0439

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FORM PTO 1595
1-31-92

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

1. Name and Address of Conveying Party(ies) INDIVIDUAL:

Robert A. Marshall
324 Doe Run
Georgetown, Williamson County, Texas 78628

4-16-01

Individual Citizenship: United States of America

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

2. Name and Address of receiving Party(ies):

Name: Cisco Technology, Inc.
Internal Address: 170 West Tasman Drive
Street Address: 170 West Tasman Drive
City: San Jose
State: California Zip: 95134

3. Nature of conveyance:

Assignment Merger
 Security Agreement Change of Name
 Other

APR 19 2001

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

Execution Date: December 7, 2000.

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:

A. Patent Application No.(s): 09/741,115,
filed December 19, 2000.

B. Patent No.(s):

Additional Numbers Yes No

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

Name: Barton E. Showalter
Internal Address: BAKER BOTTS L.L.P.
Street Address: 2001 Ross Avenue
City: Dallas
State: Texas Zip: 75201-2980

6. Total number of application and patents involved: One

7. Total Fee (37C.F.R. 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)

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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

Apr 11, 2001

Date

Total number of pages including cover sheet

3

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

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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, Cisco Technology, Inc. (hereinafter referred to as "Assignee"), a California Corporation, with an address of 170 West Tasman Drive, San Jose, California 95134, 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, we 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 we 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.

We 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 we 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.

We will communicate to Assignee any facts known to us respecting any improvements; and, at the expense of Assignee, we 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:

METHOD AND APPARATUS FOR
PROVIDING VARIABLE ATTENUATION
TO DATA SIGNALS IN AN XDSL
FREQUENCY RANGE

Signature of Inventor:

Inventor's Name:

Michael H. Capon

Residence (City, County, State)

Austin, Travis County, Texas

Date:

Date Application Executed:

Signature of Inventor:

Robert A. Marshall
Robert A. Marshall

Inventor's Name:

Residence (City, County, State)

Georgetown, Williamson County, Texas

Date:

12-7-00

Date Application Executed:

12-7-00