

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:

NEW ASSIGNMENT

NATURE OF CONVEYANCE:

ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Gregory L. Singleton	11/24/1998
Andrew M. Spooner	11/23/1998
Ramona L. Boyd	11/23/1998
Jason McCullough	11/24/1998

RECEIVING PARTY DATA

Name:	Cisco Technology, Inc.
Street Address:	170 West Tasman Drive
City:	San Jose
State/Country:	CALIFORNIA
Postal Code:	95134

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	10318751

CORRESPONDENCE DATA

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Address Line 2: Baker Botts L.L.P.
Address Line 4: Dallas, TEXAS 75201-2980

NAME OF SUBMITTER:

Barton E. Showalter

Total Attachments: 3
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PATENT

REEL: 014766 FRAME: 0120

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CH \$40.00 10318751

ASSIGNMENT

WHEREAS, we, the undersigned inventors of residence as listed, have 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 our 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 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 provisionals, divisions, reissues, continuations, continuations-in-part and extensions thereof; and we 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 in and 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 design, provisional, 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.

ATTORNEY'S DOCKET NO.
062891.0227

PATENT

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Title of Invention: SYSTEM AND METHOD FOR SPECIAL
SIGNALING WITH CUSTOMER PREMISES
EQUIPMENT

Signature of First Inventor:
Inventor's Name:


Gregory L. Singleton

Residence (City, County, State)

Austin (Travis County),
Texas

Date:


11/24/98

Date Application Executed:

11/23/98

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Signature of Second Inventor:
Inventor's Name:


Andrew M. Spooner

Residence (City, County, State)

Austin (Travis County),
Texas

Date:

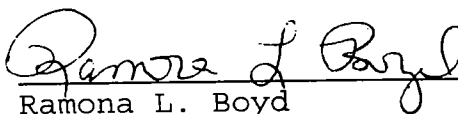
11/23/98

Date Application Executed:

11/23/98

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Signature of Third Inventor:
Inventor's Name:


Ramona L. Boyd

Residence (City, County, State)

Austin (Travis County),
Texas

Date:

11/23/98

Date Application Executed:

11/23/98

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Signature of Forth Inventor:
Inventor's Name:


Jason McCullough

Residence (City, County, State)

Austin (Travis County),
Texas

Date:

11/24/98

Date Application Executed:

1 11/24/98

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