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To: Honorable Commissioner of Patents and Trademarks:

Please record the attached original document(s) or copy thereof.

1. Name of conveying party(ies)
a) **BRIAN A. PETERSEN**
b) **JAMES R. RIVERS**

MRD
10-1-99



2. Name and address of receiving party(ies):
a) Name: **Cisco Technology, Inc.**
Address: **170 West Tasman Drive**
San Jose, California 95134-1706

3. Nature of conveyance
☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other ☐ License Agreement

Execution Dates: **August 24, 1999 (Petersen)**
September 20, 1999 (Rivers)

4. Application Number: **09/340,854**

5. Please send all correspondence concerning this (these) documents to:

Customer Number: 022434
BEYER & WEAVER, LLP
P.O. Box 61059
Palo Alto, CA 94306
Telephone (510) 843-6200
Fax (510) 843-6203

6. Total number of applications and patents involved: **1**

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

- ☒ Enclosed
☐ Any additional fees are authorized to be charged to Deposit Account No. 50-0388
(Order No. CISCP106)

8. 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.

Date: September 27, 1999

Elise Heilbrunn
Elise R. Heilbrunn
Registration No. 42,649

Attorney Docket No. CISCPI06/726

(Revised 01/96)

PATENT
REEL: 010548 FRAME: 0120

ASSIGNMENT OF PATENT APPLICATION

(Not Accompanying Application)



Whereas I/we the undersigned inventor(s) have invented certain new and useful improvements as set forth in the patent application entitled:

CHANNEL COMMUNICATION SYSTEM

for which I have executed an application for a United States Letters Patent which was filed in the U.S. Patent and Trademark Office on June 28, 1999, and which bears the Application No. 09/340,854.

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/We the undersigned inventor(s) hereby:

- 1) Sell(s), assign(s) and transfer(s) to Cisco Technology, Inc., a California corporation having a place of business at 170 West Tasman Drive, San Jose, CA 95134-1706, (hereinafter referred to as "ASSIGNEE"), the entire right title and interest in any and all improvements and inventions disclosed in, application(s) based upon, and Patent(s) (including foreign patents) granted upon the information which is disclosed in the above referenced application.
- 2) Authorize and request the Commissioner of Patents to issue any and all Letters Patents resulting from said application or any division(s), continuation(s), substitutes(s) or reissue(s) thereof to the ASSIGNEE.
- 3) Agree to execute all papers and documents and, entirely at the ASSIGNEE's expense, perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative and applications thereof, foreign applications based thereon, and/or the enforcement of patents resulting from such applications.
- 4) Agree that the terms, covenants and conditions of this assignment shall inure to the benefit of the Assignee, its successors, assigns and other legal representative, and shall be binding upon the inventor(s), as well as the inventor's heirs, legal representatives and assigns.
- 5) Warrant and represent that I/we have not entered, and will not enter into any assignment, contract, or understanding that conflicts with this assignment.

Signed on the date(s) indicated beside my (our) signature(s).

1. Inventor Signature: _____

BRIAN A. PETERSEN

Date: _____

8/24/99

State of California)

County of _____)

ss.

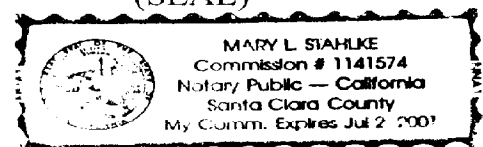
On this 24th day of August, in the year 1999, before me, Mary L. Stahlke, personally appeared Brian A. Petersen, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/she executed the same in his/her authorized capacity(ies), and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Notary Signature _____

Mary L. Stahlke

(SEAL)



2. Inventor Signature: JAMES R. RIVERS

Date: 9/20/99

State of California

County of Santa Clara) SS.

On this 20th day of September, in the year 1999, before me, MARY L. STAHLKE, personally appeared JAMES R. RIVERS, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity(ies), and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Notary Signature MARY L. STAHLKE

(SEAL)





UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

DECEMBER 29, 1999

PTAS

BEYER & WEAVER, LLP
ELISE R. HEILBRUNN
P.O. BOX 61059
PALO ALTO, CA 94306



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UNITED STATES PATENT AND TRADEMARK OFFICE
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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 10/01/1999

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BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

PETERSEN, BRIAN A.

DOC DATE: ~~09/24/1999~~

08/24/1999

ASSIGNOR:

RIVERS, JAMES R.

DOC DATE: 09/20/1999

ASSIGNEE:

CISCO TECHNOLOGY, INC.
170 WEST TASMAN DRIVE
SAN JOSE, CALIFORNIA 95134-1706

SERIAL NUMBER: 09340854
PATENT NUMBER:

FILING DATE: 06/28/1999
ISSUE DATE:

ANNE HARRELL, PARALEGAL
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

1-12-2000
assignment correction
3-10-2000

OKW
ERH

CISC0106



RECORDED: 02/01/2000

PATENT
REEL: 010548 FRAME: 0123