1-01/18/00 ASSIGNMENT R





To: Honorable Commissioner of Patents and Trademarks:

Please record the attached original document or copy thereof.

- 1. Name of conveying parties
 - Feisal Daruwalla a)
 - James R. Forster b)
 - Guenter E. Roeck c)
 - Richard M. Woundy d)
 - Michael A. Thomas e)

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2.	Name	and	address	O1	receiving	party:

Name: a)

Cisco Technology, Inc.

Address:

170 West Tasman Drive San Jose, CA 95134-1706

3. Nature of conveyance Merger Assignment Change of Name Security Agreement License Agreement Execution Date: 12/21/99; 12/22/99; 12/21/99; 1/3/00; 1/10/00

Application Number(s) or Patent Number(s): To Be Assigned 4.

> The title of the new application is: Routing Protocol Based Redundancy Design for Shared-Access Networks

5. Please send all correspondence concerning this document to:

> Customer Number: 022434 BEYER & WEAVER, LLP P.O. Box 61059 Palo Alto, CA 94306 Telephone (650) 493-2100 Fax (650) 493-2102

PATENT TRACEWORK OFFICE

- Total number of applications and patents involved: 1 6.
- 7. Total fee (37 CFR 3.41): \$40.00

Enclosed

 \boxtimes Any additional fees are authorized to be charged to Deposit Account No. 50-0388 (Order No. CISCP115)

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: January 18, 2000

02/14/2000 JSHABAZZ 00000153 09484189

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Jeffrey K. Weaver

Registration No. 31,314

Attorney Docket No.

(Revised 01/96)

ASSIGNMENT OF PATENT APPLICATION

(Accompanying Application)

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

ROUTING PROTOCOL BASED REDUNDANCY DESIGN FOR SHARED-ACCESS NETWORKS

(Atty. Docket No. <u>CISCP115/1434</u>) for which I (we) have executed an application for a United States Letters Patent.

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

- Sell(s), assign(s) and transfer(s) to <u>Cisco Technology</u>, <u>Inc.</u>, 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 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)

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PATENT REEL: 010542 FRAME: 0159

5) Signature: Typed Name: Michael A. Thomas County of) ss. State of year On of the before in personally appeared Michael A Thomas, personally known to me (or atisfactory 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 ber 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

Signature

(SEAL)

MARY L STAHLKE Commission # 1141574 Notary Public -- California Santa Clara County My Comm. Expires Jul 2 200?

RECORDED: 01/18/2000