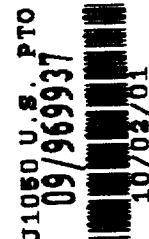


10-2-01  
09969937

ASSIGNMENT R

-PATENT 101872077

10-12-2001



To: Honorable Commissioner of Patents and Trademarks:

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

1. Name of conveying party(ies)
  - a) Dannie Prairie
  - b) Daniel C. Tappan
  - c) Richard Bradford
2. Name and address of receiving party(ies):
  - a) Name: Cisco Technology, Inc.
  - b) Address: 170 W. Tasman Drive  
San Jose, CA 95134

3. Nature of conveyance



Assignment



Merger



Security Agreement



Change of Name



Other \_\_\_\_\_



License Agreement

Execution Date: 10/1/2001, 9/4/2001, 9/4/2001 respectively

4. Application Number(s) or Patent Number(s):

The title of the (new) application is:

**LINK DISCOVERY AND VERIFICATION PROCEDURE USING LOOPBACK**

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

Customer No. 26541  
Ritter, Lang & Kaplan LLP  
12930 Saratoga Ave., Suite D1  
Saratoga, CA 95070  
(408) 446-8690 (PH)  
(408) 446-8691 (FX)

6. Total number of applications and patents involved: 1

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



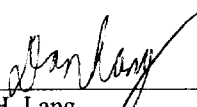
Enclosed



Any deficiencies are hereby authorized to be charged to Deposit Account No. 50-1652 (Order No. CISC723)

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: October 2, 2001

  
\_\_\_\_\_  
Dan H. Lang  
Registration No. 38,531

10/05/2001 MDAATE1 00000000 001602 05069937

01 FD:381

40.00 CB

Attorney Docket No. CISC723

(Revised 01/96)

**PATENT**  
**REEL: 012231 FRAME: 0700**

# ASSIGNMENT OF PATENT APPLICATION

(Accompanying Application)

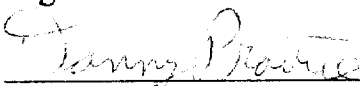
Whereas I/we the undersigned inventor(s) have invented certain new and useful improvements as set forth in the patent application entitled:

## LINK DISCOVERY AND VERIFICATION PROCEDURE USING LOOPBACK

(Atty. Docket No.: CISCP723) 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:

- 1) Sell(s), assign(s) and transfer(s) to Cisco Technology, Inc., a **California** corporation having a place of business at 170 W. Tasman Drive, San Jose, CA 95134, (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.

1)	Signature: <u></u>	Date: <u>Oct. 1, 2001</u>
	Typed Name: <b>Danny Prairie</b>	
2)	Signature: _____	Date: _____
	Typed Name: <b>Daniel C. Tappan</b>	
3)	Signature: _____	Date: _____
	Typed Name: <b>Richard Bradford</b>	

# ASSIGNMENT OF PATENT APPLICATION

(Accompanying Application)

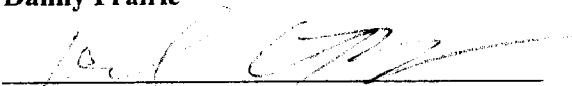
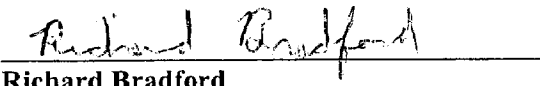
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- 3) Agree to execute all papers and documents and, entirely at the ASSIGNEE's expense, perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative and applications thereof, foreign 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.

1)	Signature: _____	Date: _____
	Typed Name: <b>Danny Prairie</b>	
2)	Signature:  _____	Date: <u>9/8/2001</u>
	Typed Name: <b>Daniel C. Tappan</b>	
3)	Signature:  _____	Date: <u>9/8/2001</u>
	Typed Name: <b>Richard Bradford</b>	

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s), or § 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

**Prior U.S. Application(s)**

_____	_____	_____
(Application No.)	(Filing Date)	(Status - patented, pending, abandoned)
_____	_____	_____
(Application No.)	(Filing Date)	(Status - patented, pending, abandoned)

And I hereby appoint the law firm of Ritter, Lang & Kaplan LLP, including **Michael J. Ritter (Reg. No. 36,653); Dan H. Lang (Reg. No. 38,531); Cindy S. Kaplan (Reg. No. 40,043); and Peggy A. Su (Reg. No. 41,336)** as my principal attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

**Please Direct all Correspondence To:**      **Customer No. 26541**  
Ritter, Lang & Kaplan LLP  
12930 Saratoga Ave., Suite D1  
Saratoga, CA 95070

**Direct Telephone Calls To:**      **Dan H. Lang at telephone number (408) 446-8694**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Typewritten Full Name of  
Sole or First Inventor: Danny Prairie      Citizenship: Canadian

**Inventor's signature:** *Danny Prairie*      **Date of Signature:** 02/1/2001

Address: (City) Kanata      (State/Country) Canada

Post Office Address: 20 Grengold Way, Kanata, Ontario K2T 1E2

Typewritten Full Name of  
Joint or Second Inventor: Daniel C. Tappan      Citizenship: USA

**Inventor's signature:** \_\_\_\_\_      **Date of Signature:** \_\_\_\_\_

Address: (City) Boxborough      (State/Country) MA/USA

Post Office Address: 867 Liberty Square Road, Boxborough, MA 01719

Typewritten Full Name of  
Joint or Third Inventor: Richard Bradford      Citizenship: USA

**Inventor's signature:** \_\_\_\_\_      **Date of Signature:** \_\_\_\_\_

Address: (City) Westford      (State/Country) MA/USA

Post Office Address: 51 Buckboard Drive, Westford, MA 01886