

12-13-2000



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ASSIGNMENT

To: Honorable Commissioner of Patents and Trademarks:

11.27.00
Please record the attached original document(s) or copy thereof.

1. Name of conveying party(ies)

- a) Harihara Mahesh
- b) Chrisanto de Jesus Leano
- c) Syed S. Jafar
- d) Nozar Azarakhsh

2. Name and address of receiving party(ies):

- a) Name: Cisco Systems, Inc.
- Address: 170 West Tasman Drive, San Jose, CA 95134

3. Nature of conveyance

- | | | | |
|-------------------------------------|--------------------|--------------------------|-------------------|
| <input checked="" type="checkbox"/> | Assignment | <input type="checkbox"/> | Merger |
| <input type="checkbox"/> | Security Agreement | <input type="checkbox"/> | Change of Name |
| <input type="checkbox"/> | Other _____ | <input type="checkbox"/> | License Agreement |

Execution Date:

- a) 11/16/00
- c) 11/16/00
- c) 11/16/00
- d) 11/20/00

4. Application Number(s) or Patent Number(s): 09/608,202

The title of the (new) application is:

DYNAMIC MODULATION OF MODULATION PROFILES FOR COMMUNICATION CHANNELS IN AN ACCESS NETWORK

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

Customer Number: 022434
BEYER WEAVER & THOMAS, LLP
 P.O. Box 778
 Berkeley, CA 94704-0778
 Phone (510) 843-6200
 Fax (510) 843-6203

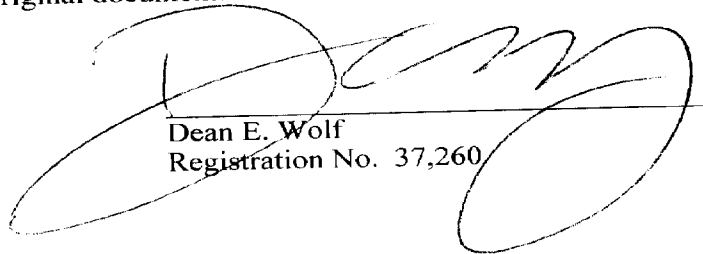
6. Total number of applications and patents involved: 1

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

- Enclosed
- Any additional fees are authorized to be charged to Deposit Account No. 500388 (Order No. CISC172).

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: November 22, 2000



Dean E. Wolf
Registration No. 37,260

Attorney Docket No. CISC172

(Revised 01/96)

PATENT
REEL: 011318 FRAME: 0950

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:

DYNAMIC MODULATION OF MODULATION PROFILES FOR COMMUNICATION CHANNELS IN AN ACCESS NETWORK

for which I (we) have executed an application for a United States Letters Patent which was filed in the U.S. Patent and Trademark Office on June 30, 2000, and which bears the Application No. 09/608,202.

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 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).

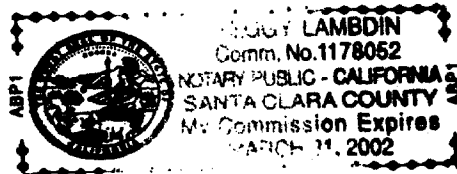
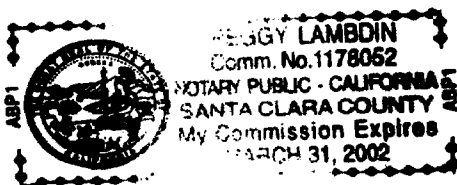
1) Signature: *Harihar Mahesh* Date: 11/16/2000
Typed Name: Harihara Mahesh

County of Santa Clara)
State of California) ss.

On this 16 day of November, in the year 2000, before me, Peggy Lambdin, personally appeared Harihar Mahesh 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.

Signature *Peggy Lambdin* (SEAL)



2) Signature: [Signature]
Typed Name: Chrisanto de Jesus Leano

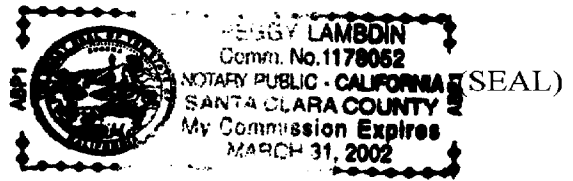
Date: 11/16/2000

County of Santa Clara)
State of California) ss.

On this 16 day of November, in the year 2000, before me, Peggy Lambdin, personally appeared Chrisanto de Jesus Leano, 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.

Signature [Signature]



3) Signature: [Signature]
Typed Name: Syed S. Jafar

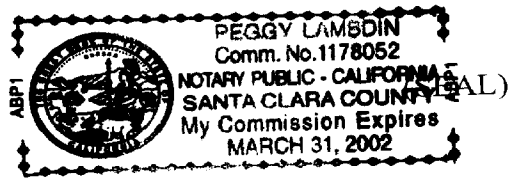
Date: 11/16/2000

County of Santa Clara)
State of California) ss.

On this 16 day of November, in the year 2000 before me, Peggy Lambdin, personally appeared Syed S. Jafar, 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.

Signature [Signature]



4) Signature: [Signature]
Typed Name: Nozar Azarakhsh

Date: 11/20/2000

County of Santa Clara)
State of California) ss.

On this 20 day of November, in the year 2000 before me, Peggy Lambdin, personally appeared Nozar Azarakhsh, 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.

Signature [Signature]

