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To the Honorable commissioner of Pa
Please record the attached original c

1. Name of conveying party(ies):

Robert H. Thomas
28 Burroughs Road
Lexington, MA 02420
2-26-99

Additional name(s) of conveying party(ies) attached? _____ Yes _____ No

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

Name: Cisco Technology, Inc.

Street Address: 170 West Tasman Drive, Building D

City: San Jose

State: CA Zip: 95134-1706

Additional name(s) & address(es) attached? _____ Yes X No

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3. Nature of conveyance:
X Assignment
_____ Merger
_____ Security Agreement
_____ Change of Name
_____ Other

Execution Date: _____

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: February 25, 1999

A. Patent Application No.(s) | B. Patent No. (s)

Additional numbers attached? _____ Yes X No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Joseph H. Born
Cesari and McKenna LLP
Street Address:
30 Rowes Wharf
City: Boston State: MA Zip: 02110

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

7. Total fee (37 CFR 3.41) \$40.00
X Enclosed
_____ Authorized to be charged to deposit account

8. Deposit account no. 03-1237 (Attach duplicate copy of this page if paying by deposit account)

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DO NOT USE THIS SPACE

9. Statement and signature.
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.

Joseph H. Born *[Signature]* *2/26/99*
Name of Person Signing Signature Date

Total number of pages comprising cover sheet: 1

ASSIGNMENT

Whereas I, Robert H. Thomas, who reside at 28 Burroughs Road, Lexington, MA 02420, have made certain inventions or discoveries (or both) set forth in an application for Letters Patent of the United States of America entitled DISCOVERY AND TAG SPACE IDENTIFIERS IN A TAG DISTRIBUTION PROTOCOL (TDP), identified by Cesari and McKenna File No. 112025-0127, which application was executed by me on February 25 1999; and

Whereas Cisco Technology, Inc., whose address is 170 West Tasman Drive, Building D, San Jose, CA 95134-1706, and which, together with its successors and assigns, is hereinafter called "Assignee," is desirous of acquiring the title, rights, benefits, and privileges hereinafter recited;

Now, Therefore, for valuable consideration furnished by Assignee to me, receipt and sufficiency of which I hereby acknowledge, I hereby, without reservation:

1. Assign, transfer, and convey to Assignee my entire right, title, and interest in and to said inventions and discoveries, said application for Letters Patent of the United States of America, any and all other applications for Letters Patent on said inventions and discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation, continuation-in-part, and Convention applications based in whole or in part upon said inventions or discoveries, or upon said applications, and any and all Letters Patent, reissues, reexaminations, and extensions of Letters Patent granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications, and said Letters Patent;

2. Authorize Assignee to file patent applications in any or all countries on any or all of said inventions and discoveries in my name or in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention or otherwise;

3. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent to Assignee, as assignee of the entire right, title, and interest therein or otherwise as Assignee may direct;

4. Warrant that I have not knowingly conveyed to others any right in said inventions, discoveries, applications, or patents or any license to use the same or to make, use, or sell anything embodying or utilizing any of said inventions or discoveries; and that I have good right to assign the same Assignee without encumbrance;

5. Bind my heirs, legal representatives and assigns, as well as myself, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to me or them, all acts reasonably serving to assure that the said inventions and discoveries, the said patent applications, and the said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by me, my heirs, legal representatives, and assigns if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents

including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to me relating to said inventions and discoveries or the history thereof; and to furnish Assignee with any and all documents, photographs, models, samples, and other physical exhibits in my control or in the control of my heirs, legal representatives or assigns which may be useful for establishing the facts of my conceptions, disclosures, and reduction to practice of said inventions and discoveries.

In testimony of which I have executed this Assignment as an instrument under seal on the date indicated next to my name.

2/25/99

Date

Robert H. Thomas

Robert H. Thomas, Inventor

Commonwealth of Massachusetts)

)ss.

County of MIDDLESEX)

On this 25th day of FEBRUARY, 1999, before me appeared Robert H. Thomas, to me known and known to me to be the person described in and who executed the foregoing instrument, and he acknowledged the same to be his free act and deed.

Carol Lee Councilman

Notary Public

CAROL LEE COUNCILMAN

NOTARY PUBLIC

My Commission Expires December 11, 2003

[seal]