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04-02-2001

HEET



To the Honorable Commissioner of Pa

101655001

1 original documents or copy thereof.

1. Name of conveying party(ies) **MRD**
Balasubramanian Kalyanasundaram
John G. Waclawsky
Mahendran Velauthapillai **3/19/01**

2. Name and address of receiving party(ies)
Name: Cisco Technology, Inc.

Internal Address: _____

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

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

Street Address: 170 West Tasman Drive

City: San Jose State: CA ZIP: 95134-1706

Execution Date: March 16, 2001

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

4. Application number(s) or patent number(s): **09/812134**
If this document is being filed together with a new application, the execution date of the application is: March 16, 2001

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: Barry W. Chapin, Esq.

Internal Address: _____

CHAPIN & HUANG, L.L.C.

Street Address: Westborough Office Park

1700 West Park Drive

City: Westborough State: MA ZIP: 01581

6. Total number of applications and patents involved: 1

7. Total Fee (37 C.F.R. 3.41)..... \$ 40.00

- Enclosed with application filing fee
- Authorized to charge any deficiencies or credit any overpayment to deposit account
- Authorized to be charged to deposit account

8. Deposit account number:

50-0901

(Attach duplicate copy of this page if paying by deposit account)

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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.

Barry W. Chapin
Name of Person Signing

Barry W. Chapin, Reg. No. 39,934
Signature

March 19, 2001
Date

Total number of pages including cover sheet, attachments, and document: **[5]**

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09/812134
03/19/01

03/22/2001 JADD01 00000008 09812134
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ASSIGNMENT

WHEREAS, we, Balasubramanian Kalyanasundaram, John G. Waclawsky and Mahendran Velauthapillai, have invented a certain improvement in **METHODS AND APPARATUS FOR ALLOCATING RESOURCES IN A COMMUNICATIONS SYSTEM** described in an application for Letters Patent of the United States, the specification of which:

- is being executed on even date herewith and is about to be filed in the United States Patent Office;
- was filed on _____ as U.S. Application No. _____;
- was patented under U.S. Patent No. _____ on _____.

WHEREAS, Cisco Technology, Inc. (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State of California and having a usual place of business at 170 West Tasman Drive, San Jose, California 95134-1706 desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution,

reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor: *Balasubramanian Kalyanasundaram* 3-16-2001
Balasubramanian Kalyanasundaram

State/Commonwealth
of District of Columbia
County of District of Columbia

Then personally appeared before me the above-named Balasubramanian Kalyanasundaram and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this 16 day of March, 2001.

(SEAL)

Delante L. Moore Notary Public
Delante L. Moore (print name)
My Commission expires 5/31/2004

Inventor: John G. Waclawsky 3/16/01
John G. Waclawsky

State/Commonwealth
of Maryland
County of Fredrick

Then personally appeared before me the above-named John G. Waclawsky and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this 16th day of March, 2001.

(SEAL)

Sandra Y. Warfield Notary Public
Sandra Y. Warfield (print name)
My Commission expires 05/01/03

Inventor: Mahendran Velauthapillai 3/16/01
Mahendran Velauthapillai

State/Commonwealth
of District of Columbia
County of District of Columbia

Then personally appeared before me the above-named Mahendran Velauthapillai and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this 16 day of March, 2001.

(SEAL)

Delante L. Moore Notary Public
Delante L. Moore (print name)
My Commission expires 5/31/2004