

3/17/06

ASSIGNMENT RECORDATION COVER SHEET  
-PATENTS ONLY-

112950 U.S. PTO  
11/378990  
031706

Commissioner of Patents:

03-27-2006

Please record the attached document.



1. Name of conveying party:

103205055

- a) Sachin Jain
- b) Ramana Mellacheruvu
- c) Sanjay Sane

2. Name and address of receiving party:

- a) Name: Cisco Technology, Inc.
- Address: 170 West Tasman Drive, San Jose, CA 95134-1706

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: March 17, 2006

4. Application Number or Patent Number:

The title of the application is:

**PREVENTING TRANSIENT LOOPS IN BROADCAST/MULTICAST TREES DURING  
DISTRIBUTION OF LINK STATE INFORMATION**

5. Please send all correspondence concerning this document to:

**Beyer Weaver & Thomas, LLP  
P.O. Box 70250  
Oakland, CA 94612-0250  
Customer Number: 022434**

6. Total number of applications and patents involved: 1

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

- Enclosed.
- Charge to Deposit Account No. 500388 (Order No. \_\_\_\_\_).
- Any additional fees are authorized to be charged to Deposit Account No. 500388 (Order No. CISCP467X1).

Date: March 17, 2006

\_\_\_\_\_  
Godfrey K. Kwan  
Registration No. 46,850

Total number of pages including this cover sheet, attachments and documents: 03

Attorney Docket No. CISCP467X1/13805

(Revised 9/03)

03/22/2006 LWDNDIHI 00000038 11278990  
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01 FC:8021

## ASSIGNMENT OF PATENT APPLICATION

Whereas I, an undersigned inventor, have invented certain new and useful improvements as set forth in the patent application entitled:

### PREVENTING TRANSIENT LOOPS IN BROADCAST/MULTICAST TREES DURING DISTRIBUTION OF LINK STATE INFORMATION

(Atty. Docket No. CISC467X1/13805), (check one)

- for which I have executed a U.S. patent application on even date herewith. (Accompanying)  
 which bears U.S. application No. . (Not accompanying)  
 which is a U.S. provisional application. (Accompanying)

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, an undersigned inventor, hereby:

- 1) Sell, assign and transfer to Cisco Technology, Inc., a California corporation having a place of business at 170 West Tasman Drive, San Jose, CA 95134-1706, ("ASSIGNEE"), the entire right, title and interest in any and all improvements and inventions disclosed in, applications based upon, and patents granted upon (including foreign patents and the right to claim priority), the above-referenced application.
- 2) Authorize and request the Commissioner of Patents to issue any and all United States Patents resulting from said application or any division, continuation, substitute, renewal, re-examination or reissue 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 representatives, and shall be binding upon the inventor, as well as the inventor's heirs, legal representatives and assigns.
- 5) Warrant and represent that I have not entered and will not enter into any assignment, contract, or understanding that conflicts with this assignment.
- 6) Authorize and request my attorney/agent to insert above the application No. in order to assist with recordal of this assignment.

Signed on the date indicated beside my signature.

1. Inventor Signature:   
Sachin Jain

Date: 3/17/06

State of California )  
 )  
County of \_\_\_\_\_ ) ss.

On this \_\_\_\_\_ day of \_\_\_\_\_, in the year 2006, before me, \_\_\_\_\_, Notary Public personally appeared Sachin Jain, 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.

Notary Signature \_\_\_\_\_

(SEAL)

2. Inventor Signature:   
Ramana Mellacheruvu

Date: 3/17/06

State of California )  
 )  
County of \_\_\_\_\_ ) ss.

On this \_\_\_\_\_ day of \_\_\_\_\_, in the year 2006, before me, \_\_\_\_\_, Notary Public, personally appeared Ramana Mellacheruvu, 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.

Notary Signature \_\_\_\_\_

(SEAL)

3. Inventor Signature:   
Sanjay Sane

Date: 3/17/2006

State of California )  
 )  
County of \_\_\_\_\_ ) ss.

On this \_\_\_\_\_ day of \_\_\_\_\_, in the year 2006, before me, \_\_\_\_\_, Notary Public, personally appeared Sanjay Sane, 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.

Notary Signature \_\_\_\_\_

(SEAL)