

07-15-2003

RECORD



ET

102496111

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

## 1. Name of conveying party(ies)

Dan Li Executed: June 20, 2003  
 Arun Desai Executed: June 20, 2003  
 Zheng Yang Executed: June 20, 2003  
 Kenneth Mueller II Executed: June 27, 2003  
 Stephen Morris Executed: June 19, 2003  
 Dmitry Stavisky Executed: June 20, 2003

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

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

Name: Cisco Technology, Inc.

Internal Address:

Street Address: 170 West Tasman Drive

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

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

## 3. Nature of conveyance:

☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name

☐ OtherExecution Date: June 20, 2003, June 20, 2003, June 20, 2003,  
June 27, 2003, June 19, 2003, June 20, 2003

## 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: June 20, 2003, June 20, 2003,  
June 20, 2003, June 27, 2003,  
June 19, 2003, June 20, 2003

## A. Patent Application No.(s)

07/03/2003 HMMRZ11 00000067 10610173

03 FC:8021

40.00 CP

## B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: David E. Huang, Esq.

Internal Address:

CHAPIN &amp; 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)

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.

Christine M. Kuta, Esq.

Name of Person Signing

Signature

June 30, 2003

Date

Total number of pages including cover sheet, attachments, and document: ☐ 10 ☒

PATENT

REEL: 014257 FRAME: 0236

**ASSIGNMENT**

**WHEREAS**, we, Dan Li, Arun Desai, Zheng Yang, Kenneth Mueller II, Stephen Morris, and Dmitry Stavisky, have invented a certain improvement in **METHOD AND APPARATUS FOR MULTICAST CLOUD WITH INTEGRATED MULTICAST AND UNICAST CHANNEL ROUTING IN A CONTENT DISTRIBUTION NETWORK** 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

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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: \_\_\_\_\_

Dan Li

Dated: \_\_\_\_\_

Inventor: \_\_\_\_\_

Arun Desai

Dated: \_\_\_\_\_

Inventor: \_\_\_\_\_

Zheng Yang

Dated: \_\_\_\_\_

Inventor: \_\_\_\_\_

Kenneth Mueller II

Dated: \_\_\_\_\_

-3-

Inventor: \_\_\_\_\_  
Stephen Morris

Dated: \_\_\_\_\_

Inventor: \_\_\_\_\_  
Dmitry Stavisky

Dated: \_\_\_\_\_

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**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;

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Dated: \_\_\_\_\_

Inventor: \_\_\_\_\_  
Arun Desai

Dated: \_\_\_\_\_

Inventor: \_\_\_\_\_  
Zheng Yang

Dated: \_\_\_\_\_

Inventor:  \_\_\_\_\_  
Kenneth Mueller II

Dated: 6/27/2003

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Inventor: \_\_\_\_\_  
Stephen Morris

Dated: \_\_\_\_\_

Inventor: \_\_\_\_\_  
Dmitry Stavisky

Dated: \_\_\_\_\_

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Dan Li

Dated: \_\_\_\_\_

Inventor: \_\_\_\_\_  
Arun Desai

Dated: \_\_\_\_\_

Inventor: \_\_\_\_\_  
Zheng Yang

Dated: \_\_\_\_\_

Inventor: \_\_\_\_\_  
Kenneth Mueller II

Dated: \_\_\_\_\_

-3-

Inventor: Stephen Morris  
Stephen Morris

Dated: 6/19/03

Inventor: Dmitry Stavisky  
Dmitry Stavisky

Dated: 6/20/03