

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

| SUBMISSION TYPE: | NEW ASSIGNMENT | | | | | | | | |
|---|---------------------------|---------------|----------------|---------------------|------------|---------------|------------|-----------|------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT | | | | | | | | |
| CONVEYING PARTY DATA | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Varun Shah</td> <td>05/18/2012</td> </tr> <tr> <td>Ayan Banerjee</td> <td>05/18/2012</td> </tr> <tr> <td>Abhay Roy</td> <td>05/18/2012</td> </tr> </tbody> </table> | | Name | Execution Date | Varun Shah | 05/18/2012 | Ayan Banerjee | 05/18/2012 | Abhay Roy | 05/18/2012 |
| Name | Execution Date | | | | | | | | |
| Varun Shah | 05/18/2012 | | | | | | | | |
| Ayan Banerjee | 05/18/2012 | | | | | | | | |
| Abhay Roy | 05/18/2012 | | | | | | | | |
| RECEIVING PARTY DATA | | | | | | | | | |
| Name: | Cisco Technology, Inc. | | | | | | | | |
| Street Address: | 170 West Tasman Drive | | | | | | | | |
| City: | San Jose | | | | | | | | |
| State/Country: | CALIFORNIA | | | | | | | | |
| Postal Code: | 95134-1706 | | | | | | | | |
| PROPERTY NUMBERS Total: 1 | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13534726</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 13534726 | | | | |
| Property Type | Number | | | | | | | | |
| Application Number: | 13534726 | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | |
| Fax Number: | (301)762-4056 | | | | | | | | |
| Phone: | 301-424-3640 | | | | | | | | |
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| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i> | | | | | | | | | |
| Correspondent Name: | D. Andrew Floam | | | | | | | | |
| Address Line 1: | 1901 Research Boulevard | | | | | | | | |
| Address Line 2: | Suite 400 | | | | | | | | |
| Address Line 4: | Rockville, MARYLAND 20850 | | | | | | | | |
| ATTORNEY DOCKET NUMBER: | 0370.1199C (977032) | | | | | | | | |
| NAME OF SUBMITTER: | Amol Purohit | | | | | | | | |
| Total Attachments: 1 source=ExecutedAssignment#page1.tif | | | | | | | | | |

OP \$40.00 13534726

ASSIGNMENT

For good and valuable consideration, WE, Varun Shah, a citizen of India, residing at 755 E. Capital Avenue, Apt. J311, Milpitas, CA 95035; Ayan Banerjee, a citizen of the United States of America, residing at 5250 Keystone Drive, Fremont, CA 94536; and Abhay Roy, a citizen of the United States of America, residing at 22225 Via Camino Ct., Cupertino, CA 95014, hereinafter individually or collectively referred to as "Assignor";


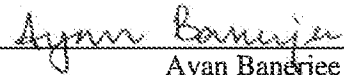
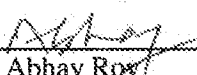
Hereby sell, assign and transfer to **Cisco Technology, Inc.**, a corporation organized and existing under the laws of California, having its principal place of business at 170 West Tasman Drive, San Jose, California 95134-1706, hereinafter "Assignee", its successors, assigns and legal representatives, the entire right, title and interest in and for the United States and all foreign countries, in and to any and all improvements which are disclosed in the application for United States Letters Patent, which has been executed by the undersigned and

entitled: **OPTIMIZATIONS IN MULTI-DESTINATION TREE CALCULATIONS FOR LAYER 2 LINK STATE PROTOCOLS**

and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original and reissued patents which have been or shall be filed in the United States and all foreign countries on said improvements;

Agree that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and that, when requested, without charge to but at the expense of said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and legal representatives, all facts known to the undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or legal representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns and legal representatives; and

Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

SIGNATURE:  DATE: 05/18/2012
Varun Shah
SIGNATURE:  DATE: May 18, 2012
Ayan Banerjee
SIGNATURE:  DATE: 5/18/2012
Abhay Roy