

PATENT ASSIGNMENT

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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>Gregory Shepherd</td> <td>09/20/2012</td> </tr> <tr> <td>Ali C. Begen</td> <td>09/20/2012</td> </tr> </tbody> </table>		Name	Execution Date	Gregory Shepherd	09/20/2012	Ali C. Begen	09/20/2012
Name	Execution Date						
Gregory Shepherd	09/20/2012						
Ali C. Begen	09/20/2012						
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>13624850</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13624850		
Property Type	Number						
Application Number:	13624850						
CORRESPONDENCE DATA							
Fax Number:	4083995609						
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>							
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ATTORNEY DOCKET NUMBER:	CISCP1231						
NAME OF SUBMITTER:	Cindy S. Kaplan						
Total Attachments: 2 source=CISCP1231_Assignment#page1.tif source=CISCP1231_Assignment#page2.tif							

CH \$40.00 13624850

ASSIGNMENT OF PATENT APPLICATION

(Accompanying Application)

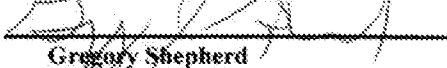
Whereas I/we the undersigned inventor(s) have invented certain new and useful improvements as set forth in the patent application entitled:

METHOD AND APPARATUS FOR IN-BAND CHANNEL CHANGE FOR MULTICAST DATA

(Atty. Docket No.: CISCPI231) for which I (we) have executed an application for a United States Letters Patent.

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/We the undersigned inventor(s) hereby:

- 1) Sell(s), assign(s) and transfer(s) to CISCO TECHNOLOGY, INC., a CALIFORNIA corporation having a place of business at 170 WEST TASMAN DRIVE, SAN JOSE, CALIFORNIA 95134-1706, (hereinafter referred to as "ASSIGNEE"), the entire right title and interest in any and all improvements and inventions disclosed in, application(s) based upon, and Patent(s) (including foreign patents) granted upon the information which is disclosed in the above referenced application.
- 2) Authorize and request the Commissioner of Patents to issue any and all Letters Patents resulting from said application or any division(s), continuation(s), substitutes(s) or reissue(s) 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 and 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 representative, and shall be binding upon the inventor(s), as well as the inventor's heirs, legal representatives and assigns.
- 5) Warrant and represent that I/we have not entered, and will not enter into any assignment, contract, or understanding that conflicts with this assignment.

1) Signature: 
Typed Name: Gregory Shepherd

Date: 9/20/12

2) Signature: _____
Typed Name: Ali C. Regen

Date: _____

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(Accompanying Application)

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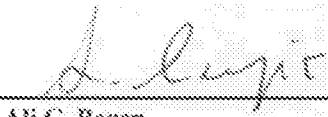
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1) Signature: _____
Typed Name: Gregory Shepherd

Date: _____

2) Signature: 
Typed Name: Ali C. Begen

Date: Sept. 20, 2012