

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>Mitri Halabi</td> <td>03/31/2009</td> </tr> <tr> <td>Yuen Fai Wong</td> <td>04/02/2009</td> </tr> <tr> <td>Robert Colvin</td> <td>03/31/2009</td> </tr> <tr> <td>Frank S. Yang</td> <td>04/02/2009</td> </tr> </tbody> </table>		Name	Execution Date	Mitri Halabi	03/31/2009	Yuen Fai Wong	04/02/2009	Robert Colvin	03/31/2009	Frank S. Yang	04/02/2009
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Mitri Halabi	03/31/2009										
Yuen Fai Wong	04/02/2009										
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RECEIVING PARTY DATA											
Name:	Brocade Communications Systems, Inc.										
Street Address:	1745 Technology Drive										
City:	San Jose										
State/Country:	CALIFORNIA										
Postal Code:	95110										
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>12412290</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12412290						
Property Type	Number										
Application Number:	12412290										
CORRESPONDENCE DATA											
Fax Number:	(650)326-2422										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
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Address Line 4:	San Francisco, CALIFORNIA 94111										
ATTORNEY DOCKET NUMBER:	019959-006110US										
NAME OF SUBMITTER:	Sujit B. Kotwal										

CH \$40.00 12412290

Total Attachments: 5

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ASSIGNMENT OF PATENT APPLICATION

JOINT

WHEREAS, Mitri Halabi of 2039 Estate View Way, San Jose, CA 95148; Yuen Fai Wong of 1151 Barrington Court, San Jose, CA 95121; Robert Colvin of 1187 Janis Way, San Jose, CA 95125; and Frank S. Yang of 21390 Rainbow Drive, Cupertino, CA 95014, hereinafter referred to as "Assignors," are the inventors of the invention(s) described and set forth in the below-identified application for United States Letters Patent:

Title: SOURCE-BASED CONGESTION DETECTION AND CONTROL

Date(s) of execution of Declaration: 3/31/09; 4/2/09

Filing Date: March 26, 2009

Application No.: 12/412,290; and

WHEREAS, Brocade Communications Systems, Inc., located at 1745 Technology Drive, San Jose, CA 95110, hereinafter referred to as "ASSIGNEE," is desirous of acquiring an interest in the invention(s) and application and in any U.S. Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have assigned, and by these presents do assign to Assignee all right, title and interest in and to the invention(s) and application and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignors further agree that they will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention(s) and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer, and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention(s) and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

Assignors hereby authorize and request Townsend and Townsend and Crew LLP, Two Embarcadero Center, Eighth Floor, San Francisco, CA 94111-3834, to insert herein above the application number and filing date of said application when known.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

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Attorney Docket No.: 019959-006110US
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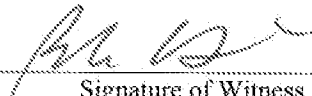
Dated: 3/31/09



Mitri Halabi

SIGNATURE WITNESSED BY:

Dated: 3/31/2009

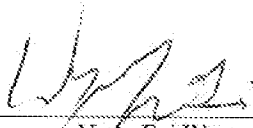


Signature of Witness
Brandon Hsieh

Printed Name

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Dated: 4/2/09



Yuen Fai Wong

SIGNATURE WITNESSED BY:

Dated: 4/2/09

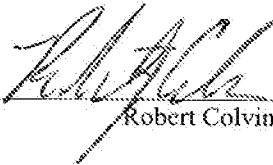


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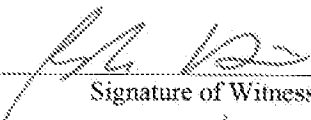
Dated: 3-31-09



Robert Colvin

SIGNATURE WITNESSED BY:

Dated: 3/31/2009

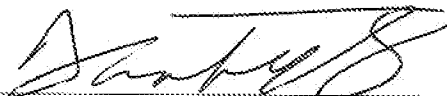


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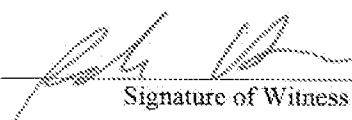
Dated: 4/2/09



Frank S. Yang

SIGNATURE WITNESSED BY:

Dated: 4/2/2009



Signature of Witness
Brandon Hsieh

Printed Name

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