

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>Alia Atlas</td> <td>03/07/2012</td> </tr> <tr> <td>Maciek Konstantynowicz</td> <td>03/11/2012</td> </tr> <tr> <td>Robert Kebler</td> <td>03/07/2012</td> </tr> </tbody> </table>		Name	Execution Date	Alia Atlas	03/07/2012	Maciek Konstantynowicz	03/11/2012	Robert Kebler	03/07/2012
Name	Execution Date								
Alia Atlas	03/07/2012								
Maciek Konstantynowicz	03/11/2012								
Robert Kebler	03/07/2012								
RECEIVING PARTY DATA									
Name:	Juniper Networks, Inc.								
Street Address:	1194 North Mathilda Avenue								
City:	Sunnyvale								
State/Country:	CALIFORNIA								
Postal Code:	94089-1206								
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>13418212</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13418212				
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Application Number:	13418212								
CORRESPONDENCE DATA									
Fax Number:	(651)735-1102								
Phone:	651-735-1100								
Email:	pairedocketing@ssiplaw.com								
<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:	SHUMAKER & SIEFFERT, P.A								
Address Line 1:	1625 RADIO DRIVE , SUITE 300								
Address Line 4:	WOODBURY, MINNESOTA 55125								
ATTORNEY DOCKET NUMBER:	1014-535US01/JNP-1634								
NAME OF SUBMITTER:	Renee L. Whittaker								
Total Attachments: 3 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif									

OP \$40.00 13418212

ASSIGNMENT

For valuable consideration, we, Alia Atlas of 49 Magnolia Street, Arlington, MA 02474, Maciek Konstantynowicz of 12 Long Wall, Haddenham, Bucks, UK HP17 8DL, and Robert Kebler of 14 Storeybrooke Drive, Newburyport, MA 01950 hereby assign to: Juniper Networks, Inc., having a place of business at: 1194 North Mathilda Avenue, Sunnyvale, California 94089-1206 and its successors and assigns (collectively hereinafter called "the Assignee") the entire right, title and interest throughout the world in the inventions and improvements which are the subject of an application for United States Patent signed by us, entitled FAST REROUTE FOR MULTICAST USING MAXIMALLY REDUNDANT TREES, filed herewith, this assignment including said application, any provisional, non-provisional, continuation, continuation-in-part, divisional, reissue, renewal, extension or other application for any of said inventions or improvements, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

Date: 7-Mar-2012

Alia Atlas
Alia Atlas

Date: _____

Maciek Konstantynowicz

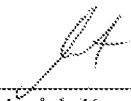
Date: _____

Robert Kebler

ASSIGNMENT

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Date: _____
Alia Atlas

Date: 11 March 2012

Maciek Konstantynowicz

Date: _____
Robert Kebler

ASSIGNMENT

For valuable consideration, we, Alia Atlas of 49 Magnolia Street, Arlington, MA 02474, Maciek Konstantynowicz of 12 Long Wall, Haddenham, Bucks, UK HP17 8DL, and Robert Kebler of 14 Storeybrooke Drive, Newburyport, MA 01950 hereby assign to: Juniper Networks, Inc., having a place of business at: 1194 North Mathilda Avenue, Sunnyvale, California 94089-1206 and its successors and assigns (collectively hereinafter called "the Assignee") the entire right, title and interest throughout the world in the inventions and improvements which are the subject of an application for United States Patent signed by us, entitled FAST REROUTE FOR MULTICAST USING MAXIMALLY REDUNDANT TREES, filed herewith, this assignment including said application, any provisional, non-provisional, continuation, continuation-in-part, divisional, reissue, renewal, extension or other application for any of said inventions or improvements, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

Date: _____
Alia Atlas

Date: _____
Maciek Konstantynowicz

Date: 3/7/2012

Robert Kebler