

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>Zhaohui Zhang</td> <td>09/30/2013</td> </tr> <tr> <td>Kurt J. Windisch</td> <td>09/30/2013</td> </tr> <tr> <td>Jaroslav Adam Gralak</td> <td>09/30/2013</td> </tr> </tbody> </table>		Name	Execution Date	Zhaohui Zhang	09/30/2013	Kurt J. Windisch	09/30/2013	Jaroslav Adam Gralak	09/30/2013
Name	Execution Date								
Zhaohui Zhang	09/30/2013								
Kurt J. Windisch	09/30/2013								
Jaroslav Adam Gralak	09/30/2013								
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>14042633</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14042633				
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Application Number:	14042633								
CORRESPONDENCE DATA									
Fax Number:	6517351102								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
Phone:	651-735-1100								
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Correspondent Name:	SHUMAKER & SIEFFERT, P.A								
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ATTORNEY DOCKET NUMBER:	1014-689US01								
NAME OF SUBMITTER:	Julia A. Ehrreich								
Signature:	/Julia A. Ehrreich/								
Date:	09/30/2013								

CH \$40.00 14042633

PATENT

Total Attachments: 4

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ASSIGNMENT

For valuable consideration, we, Zhaohui Zhang of 2 Tyler Road, Westford, MA 01886 US, Kurt J. Windisch of 20705 Wagontire Way, Bend, OR 97701 US, and Jaroslaw Adam Gralak of Boeingavenue 240, Schiphol-Rijk, PZ 1119, NL hereby assign to: Juniper Networks, Inc., having a place of business at: 1194 North Mathilda Avenue, Sunnyvale, CA 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 **RENDEZVOUS POINT LINK RESILIENCY FOR BIDIRECTIONAL PROTOCOL INDEPENDENT MULTICAST (PIM-BIDIR)**, filed September 30, 2013 , and assigned U.S. Application Serial Number 14/042,633 , this assignment including said application, (and do hereby authorize ASSIGNEE and its representative to hereafter add herein such application number(s) and/or filing date(s) when known), any provisional application, 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: Sep 30, 2013


Zhaohui Zhang (Sep 30, 2013)

Zhaohui Zhang

Date: Sep 30, 2013


Kurt Joseph Windisch (Sep 30, 2013)

Kurt J. Windisch

Date: _____

Jaroslav Adam Gralak

ASSIGNMENT

For valuable consideration, we, Zhaohui Zhang of 2 Tyler Road, Westford, MA 01886 US, Kurt J. Windisch of 20705 Wagontire Way, Bend, OR 97701 US, and Jaroslaw Adam Gralak of Boeingavenue 240, Schiphol-Rijk, PZ 1119, NL hereby assign to: Juniper Networks, Inc., having a place of business at: 1194 North Mathilda Avenue, Sunnyvale, CA 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 **RENDEZVOUS POINT LINK RESILIENCY FOR BIDIRECTIONAL PROTOCOL INDEPENDENT MULTICAST (PIM-BIDIR)**, filed September 30, 2013, and assigned U.S. Application Serial Number 14/042,633, this assignment including said application, (and do hereby authorize ASSIGNEE and its representative to hereafter add herein such application number(s) and/or filing date(s) when known), any provisional application, 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.

Assignment
1014-689US01/JNP2129-US
2 of 2

Date: _____

Zhaohui Zhang

Date: _____

Kurt J. Windisch

Date: 2013-03-30

Jaroslav Adam Gralak
Jaroslav Adam Gralak