

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>Andrew J. Smith</td> <td>09/11/2013</td> </tr> <tr> <td>Jonathan C. Barth</td> <td>09/11/2013</td> </tr> </tbody> </table>		Name	Execution Date	Andrew J. Smith	09/11/2013	Jonathan C. Barth	09/11/2013
Name	Execution Date						
Andrew J. Smith	09/11/2013						
Jonathan C. Barth	09/11/2013						
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>14037130</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14037130		
Property Type	Number						
Application Number:	14037130						
CORRESPONDENCE DATA							
Fax Number:	6517351102						
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>							
Phone:	651-735-1100						
Email:	pairedocketing@ssiplaw.com						
Correspondent Name:	SHUMAKER & SIEFFERT, P.A						
Address Line 1:	1625 RADIO DRIVE , SUITE 300						
Address Line 4:	WOODBURY, MINNESOTA 55125						
ATTORNEY DOCKET NUMBER:	1014-675US01/JNP2104						
NAME OF SUBMITTER:	Renee L. Whittaker						
Signature:	/Renee L. Whittaker/						
Date:	09/25/2013						
Total Attachments: 2 source=Assignment_asfiled#page1.tif source=Assignment_asfiled#page2.tif							

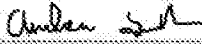
OP \$40.00 14037130

ASSIGNMENT

For valuable consideration, we, Andrew J. Smith of 826 Forest Lane, Malvern, PA, 19355 and Jonathan C. Barth of 236 E. 7th Ave, Collegeville, PA 19426, 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 ENHANCING DOCSIS SERVICES THROUGH NETWORK FUNCTIONS VIRTUALIZATION, filed September 25, 2013, and assigned U.S. Application Serial Number 14/037,130, 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 specifically U.S. Provisional Application No. 61/836,074, filed June 17, 2013, 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.

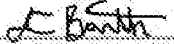
Assignment
1014-675US01/JNP2104-US
2 of 2

Date: Sep 11, 2013


Andrew J. Smith (Sep 11, 2013)

Andrew J. Smith

Date: Sep 11, 2013


J. C. Barth (Sep 11, 2013)

Jonathan C. Barth