### PATENT ASSIGNMENT

## Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Qingming MA	05/12/2009
Bryan BURNS	05/15/2009
Sheng LI	05/13/2009
Na LIU	05/13/2009
Xuejun WU	05/13/2009
Shan YU	05/13/2009
Li ZHENG	05/13/2009

#### **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

Property Type	Number
Application Number:	12468454

### **CORRESPONDENCE DATA**

Fax Number: (571)432-0808

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 5714320800

Email: gruszkowska@harrityllp.com

Correspondent Name: Harrity & Harrity, LLP
Address Line 1: 11350 Random Hills Road

Address Line 2: Suite 600

Address Line 4: Fairfax, VIRGINIA 22030

ATTORNEY DOCKET NUMBER: 0023-0423

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NAME OF SUBMITTER:	David A. Sumy
Total Attachments: 6	
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#### ASSIGNMENT

WHI	EREAS, WE, th	he below name	d inventors	(hereinafter	referred to	as Assig	gnors), ha	ive :
made an inv	ention entitled:	:					Commence of	11/20
A H	BRID REPRI	ESENTATION	FOR DETE	ERMINISTIC	CFINITE	AUTOM	[ATA]	354 (3)

or which an application is being filed herewith; or for which we filed an application for United States Letters Patent on May 19, 2009 under Serial No. 12/468, 454 ; and may 19 and may 19

We hereby authorize Applicants' representative to fill in the preceding information relating to the filing date and/or serial number, as appropriate.

WHEREAS, Juniper Networks, Inc., a corporation of <u>Delaware</u> whose post office address is <u>1194 North Mathilda Avenue</u>, <u>Sunnyvale</u>, <u>California 94089-1206</u> (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that for good and valuable consideration the receipt of which from assignee is hereby acknowledged, we as assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention and this application, and including any previously or subsequently filed provisional applications, all divisions, continuations, and continuations-in-part thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of such application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, WE HEREBY covenant that we have the full right to convey the interest assigned by this Assignment, and we have not executed and will not execute any agreement in conflict with this Assignment;

AND, WE HEREBY further covenant and agree that we will, without further consideration, communicate with assignee, its successors and assigns, any facts known to us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

# IN TESTIMONY WHEREOF, WE have hereunto set our hand.

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Qingming MA	Signature: Oy Mu
P.O. Box 6662	
Santa Clara, CA 95056	Date: 05-12 - 2007
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Bryan BURNS	Signature:
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Palo Alto, CA 94301	Date:
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#### ASSIGNMENT

WHEREAS, WE, the below named inventors (hereinafter referred to as Assignors), have made an invention entitled:

A HYBRID REPRESENTATION FOR DETERMINISTIC FINITE AUTOMATA

of for which an application is being filed herewith; or for which we filed an application for United States Letters Patent on May 19, 2009 under Serial No. 12/468, 454; and

We hereby authorize Applicants' representative to fill in the preceding information relating to the filing date and/or serial number, as appropriate.

WHEREAS, <u>Juniper Networks</u>, <u>Inc.</u>, a corporation of <u>Delaware</u> whose post office address is <u>1194 North Mathilda Avenue</u>, <u>Sunnyvale</u>, <u>California 94089-1206</u> (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that for good and valuable consideration the receipt of which from assignee is hereby acknowledged, we as assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention and this application, and including any previously or subsequently filed provisional applications, all divisions, continuations, and continuations-in-part thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of such application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, WE HEREBY covenant that we have the full right to convey the interest assigned by this Assignment, and we have not executed and will not execute any agreement in conflict with this Assignment;

AND, WE HEREBY further covenant and agree that we will, without further consideration, communicate with assignee, its successors and assigns, any facts known to us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

# IN TESTIMONY WHEREOF, WE have hereunto set our hand.

Qingming MA P.O. Box 6662	Signature:
Santa Clara, CA 95056	Date:
Bryan BURNS 835 Channing Ave. Palo Alto, CA 94301	Signature: 5/15/09
Sheng LI Room 1803, 18th Floor, Block 4	Signature:
Beijing, 100085 China	Date:
Na LIU Apt. 2001 Jia 5 <sup>th</sup> Building Hua-Qing-Jia-Yuan, Wu-Dao-Kou Chengfu Road, Haidian District Beijing, 100083 China	Signature:  Date:
Xucjun WU 6/F, Sohu International Plaza NO.1 ZhongGuanCun East Road Haidian District Beijing, 100084 China	Signature:  Date:
Shan YU Room 807, unit 1, Building No. 3 TianHeRen Jia, Nanshatan No 2 Residental Quater, ChaoYang District Beijing, 100101 China	Signature:  Date:
Li ZHENG 9-A-503 Dangdaicheng Jiayuan Qing He	Signature:
Haidian District	Date:

Attorney Docket No. <u>0023-0423 (JNP-1038)</u>
JOINT INVENTION
(Worldwide Rights)

#### ASSIGNMENT

WHEREAS, WE, the below named inventors (hereinafter referred to as Assignors), have made an invention entitled:

A HYBRID REPRESENTATION FOR DETERMINISTIC FINITE AUTOMATA

I for which an application is being filed herewith; or	for which we filed an application for				
United States Letters Patent on May 19, 2009	under Serial No. 12/468, 454; and				
We hereby authorize Applicants' representative to fill in the preceding information relating to the filing date and/or serial number, as appropriate.					

WHEREAS, Juniper Networks, Inc., a corporation of Delaware whose post office address is 1194 North Mathilda Avenue, Sunnyvale, California 94089-1206 (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application:

NOW THEREFORE, be it known that for good and valuable consideration the receipt of which from assignee is hereby acknowledged, we as assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention and this application, and including any previously or subsequently filed provisional applications, all divisions, continuations, and continuations-in-part thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of such application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, WE HEREBY covenant that we have the full right to convey the interest assigned by this Assignment, and we have not executed and will not execute any agreement in conflict with this Assignment;

AND, WE HEREBY further covenant and agree that we will, without further consideration, communicate with assignee, its successors and assigns, any facts known to us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

# IN TESTIMONY WHEREOF, WE have hereunto set our hand.

Qingming MA	Signature:
P.O. Box 6662 Santa Clara, CA 95056	Date:
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Bryan BURNS .	Signature:
835 Channing Ave.	
Palo Alto, CA 94301	Date:
Sheng LI	Signature: Sheng Li
Room 1803, 18th Floor, Block 4	
Beijing, 100085 China	Date: 05/13/2009
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Na LIU Apt. 2001 Jia 5 <sup>th</sup> Building	Signature: Wa Liu
Hua-Qing-Jia-Yuan, Wu-Dao-Kou	Date: 05/13/2009
Chengfu Road, Haidian District	
Beijing, 100083 China	
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Xuejun WU	Signature: XMJM W W  Date: 05/13/2008
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Beijing, 100084 China	
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Shan YU	Signature: Shan Yu
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TianHeRen Jia, Nanshatan No 2 Residental Quater, Chao Yang District	Date: 05/13/2009
Beijing, 100101 China	
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Li ZHENG	Signature: Li Zheng
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