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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Shaun Jaikarran Bharrat	01/29/2007
Mark Duffy	01/29/2007
Ronald V. Grippo	01/29/2007
Shiping Li	01/29/2007
John A. Perreault	01/29/2007
Jian Yang	01/29/2007

RECEIVING PARTY DATA

Name:	Sonus Networks, Inc.	
Street Address:	7 Technology Park Drive	
City:	Westford	
State/Country:	te/Country: MASSACHUSETTS	
Postal Code:	01886	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11565940

CORRESPONDENCE DATA

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Email: omannion@proskauer.com

Correspondent Name: Proskauer Rose LLP Address Line 1: One International Place

Address Line 4: Boston, MASSACHUSETTS 02110

ATTORNEY DOCKET NUMBER:	SNS-019A
NAME OF SUBMITTER:	Christopher E. Everett
PATENT	

500218428 **REEL: 018853 FRAME: 0415**

Total Attachments: 7
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PATENT REEL: 018853 FRAME: 0416

Attorney Docket No.: SNS-019A

ASSIGNMENT

WHEREAS, We, Shaun Jaikarran Bharrat, Mark Duffy, Ronald V. Grippo, Shiping Li, John A. Perreault and Jian Yang have invented one or more inventions described in an application for Letters Patent of the United States entitled:

FILTERING AND POLICING FOR DEFENDING AGAINST DENIAL OF SERVICE ATTACKS ON A NETWORK

and identified by

Attorney Docket No. SNS-019A and/or executed by us on even date herewith and about to be filed in the United States Patent Office;

Application No. 11/565,940 filed in the United States Patent Office on December 1, 2006; and

WHEREAS, Sonus Networks, Inc. (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of State of Delaware, and having a usual place of business at 7 Technology Park Drive, Westford, MA 01886, desires to acquire an interest therein, in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns, and legal representatives, our entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to the invention(s) described in said application, together with our entire right, title and interest in and to said application and such Letters Patent as may issue thereon or claim priority under United States law or international convention, including but not limited to non-provisionals, continuations, divisionals, reissues, reexaminations, extensions, and substitutions of said application or such Letters Patent, and any right, title and interest we may have in provisional applications to which said application claims priority; said invention(s), applications and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all of our rights arising under or pursuant to any and all United States laws and international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent, including but not limited to any cause(s) of action and damages accruing prior to this assignment. We hereby acknowledge that this assignment, being of our entire right, title and interest in and to said invention(s), carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all Letters Patent to ASSIGNEE in its own name as assignee of our entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed

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Joint Assignment Attorney Docket No. SNS-019A U.S. Application No. 11/565,940 Page 2 of 7

necessary to secure fully the aforesaid invention(s) to said ASSIGNEE, its successors, assigns, and legal representatives, but at its or their expense and charges, including the execution of non-provisional, substitution, continuation, divisional, reissue, reexamination, or corresponding foreign or international patent applications;

AND, we hereby further agree to provide statements or testimony in any interference or other proceeding in which said invention(s) or any application or patent directed thereto may be involved:

AND, we hereby authorize ASSIGNEE or its attorneys or agents to insert the correct serial number and filing date into this assignment, if none is indicated on the date of our execution of this assignment;

AND, we hereby authorize and request the Director of the United States Patent and Trademark Office to issue such Letters Patent as shall be granted upon said application, or applications based thereon, to said ASSIGNEE, its successors, assigns, or legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands-and affixed our seals on the date(s) set forth below.

> Inventor: Shaun Jaikarran Bharrat

State/Commonwealth of NJ County of Mon mouth

))ss 597103660

On this 29 day of <u>January</u>, 2006, before me, the undersigned notary public, personally appeared Shaun Jaikarran Bharrat, proved to me through satisfactory evidence of identification, which were NJ Drivers Icense, to be the person whose name is signed on the preceding or attached document in my presence.

Notary Public

Notary Public

My Commission Expires:

EILEEN JOZETTE QUINTANA

A NOTARY PUBLIC OF NEW JERSEY MY COMMISSION EXPIRES 9/17/2009 Joint Assignment Attorney Docket No. SNS-019A U.S. Application No. 11/565,940 Page 3 of 7

Inventor:

Mark Duffy

State/Commonwealth of MA
County of MIDDLESEX

)) ss

On this day of IANUARY, 2007, before me, the undersigned notary public, personally appeared Mark Duffy, proved to me through satisfactory evidence of identification, which were MA LIC # SOCIOTUS, to be the person whose name is signed on the preceding or attached document in my presence.

Notary Public

My Commission Expires: 8/7/

SUSAN A. DILLON
Notary Public
Commonwealth of Massachusetts
My Commission Expires Aug 7, 2009

Joint Assignment Attorney Docket No. SNS-019A U.S. Application No. 11/565,940 Page 4 of 7

Inventor:

State/Commonwealth of **NJ** County of Monmouth

) ss 597103660

On this 29 day of January , 200k, before me, the undersigned notary public, personally appeared Ronald V. Grippo, proved to me through satisfactory evidence of identification, which were NJ Drivers license, to be the person whose name is signed on the preceding or attached document in my presence.

Notary Public

My Commission Expires:

A NOTARY PUBLIC OF NEW JERSEY
MY COMMISSION EXPIRES 9/17/2009

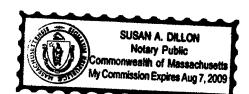
Joint Assignment Attorney Docket No. SNS-019A U.S. Application No. 11/565,940 Page 5 of 7

Inventor:

State/Commonwealth of MA County of MIDDLESEX

On this find day of JANUARY, 2007, before me, the undersigned notary public, personally appeared Shiping Li, proved to me through satisfactory evidence of identification, which were MA LICH 507517908 , to be the person whose name is signed on the preceding or attached document in my presence.

My Commission Expires: __8/7/09



Joint Assignment Attorney Docket No. SNS-019A U.S. Application No. 11/565,940 Page 6 of 7

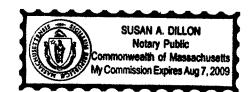
Inventor: John A. Perreault

State/Commonwealth of MA)
County of MIDDLESEX)ss

On this day of Januar, 2007, before me, the undersigned notary public, personally appeared John A. Perreault, proved to me through satisfactory evidence of identification, which were MALICHS92844107, to be the person whose name is signed on the preceding or attached document in my presence.

Notary Public

My Commission Expires: 8/7/09



Joint Assignment Attorney Docket No. SNS-019A U.S. Application No. 11/565,940 Page 7 of 7

Inventor:

State/Commonwealth of MACounty of MIDDLESEX

) ss

On this day of JANUARY ___, 2007, before me, the undersigned notary public, personally appeared Jian Yang, proved to me through satisfactory evidence of identification, which were MALL# 189702076 to be the person whose name is signed on the preceding or attached document in my presence.

Notary Public My Commission Expires: _ 多/ フ/ロタ

SUSAN A. DILLON Notary Public Commonwealth of Massachusetts My Commission Expires Aug 7, 2009

RECORDED: 02/05/2007