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| PATENT ASSIGNMENT COVER SHEET |
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 Stylesheet Version v1.2

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| SHAUN JAIKARRAN BHARRAT | 11/17/2015 |
| RECEIVING PARTY DATA | |
| Name: | SONUS NETWORKS, INC. |
| Street Address: | 4 TECHNOLOGY PARK DRIVE |
| City: | WESTFORD |
| State/Country: | MASSACHUSETTS |
| Postal Code: | 01886 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 14850333 |
| CORRESPONDENCE DATA | |
| Fax Number: | (732)936-1401 |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> | |
| Phone: | 732.936.1400 |
| Email: | stephenstraub@sp-ip.com |
| Correspondent Name: | STEPHEN T. STRAUB |
| Address Line 1: | 788 SHREWSBURY AVENUE |
| Address Line 4: | TINTON FALLS, NEW JERSEY 07724 |
| ATTORNEY DOCKET NUMBER: | SNS-109 |
| NAME OF SUBMITTER: | STEPHEN T. STRAUB |
| SIGNATURE: | /Stephen T. STRAUB, Reg. No. 43,938/ |
| DATE SIGNED: | 12/24/2015 |
| Total Attachments: 6 | |
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| source=signed_assignment_Shaun_Jaikarran_Bharrat_SNS-109#page2.tif | |
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| source=signed_assignment_Shaun_Jaikarran_Bharrat_SNS-109#page4.tif | |
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| source=signed_assignment_Shaun_Jaikarran_Bharrat_SNS-109#page6.tif | |

ASSIGNMENT

WHEREAS, we, **Tolga Asveren**, ASSIGNOR

a citizen of the **US**, residing at **21 Hemlock Court**,
Bordentown, NJ 08505;

Shaun Jaikarran Bharrat, ASSIGNOR

a citizen of the U.S., residing at **6 Ashby Court**,
Manalapan, N.J 07726

Subhransu S. Nayak, ASSIGNOR

a citizen of the **US**, residing at **5 Sky Country Drive**,
Nashua, NH, 03062, ;

are the inventors of the invention in:

AUTHENTICATION SUPPORT FOR AUTONOMOUS REQUESTS

for which an application for a Patent of the United States

was filed on September 10, 2015, as application Serial
Number 14/850,333

and WHEREAS, **Sonus Networks, Inc.**, a corporation of
Delaware, having a place of business at **4 Technology Park**
Drive, Westford, Massachusetts 01886, ASSIGNEE

is desirous of obtaining the entire right, title and
interest in, to and under the invention and the
application:

NOW, THEREFORE, in consideration of the sum of One Dollar
(\$1.00) to us in hand paid, and other good and valuable
consideration, the receipt of which is hereby acknowledged,
WE, the ASSIGNORS, have sold, assigned, transferred and set
over, and by these presents do hereby sell, assign,
transfer and set over, unto the ASSIGNEE, its successors,
legal representatives and assigns, the entire right, title
and interest in, to and under the invention, and the United
States application and all divisions, renewals and

continuations (including all continuation-in-part applications) thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models and designs which have been or may hereafter be filed for the invention or claim the benefit of the application or any right of priority to the application, in any and all countries including any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from the United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventor's certificates and designs which may be granted for the invention in any country or countries foreign to the United States 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 country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we have full right to convey the entire interest assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to the ASSIGNEE, its successors, legal representatives and assigns, any facts known to us regarding the invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives and

assigns, to obtain and enforce proper protection for the invention in all countries.

The undersigned hereby grant(s) the law firm of Straub & Pokotylo, and any other representative of the Assignee, the power to: insert on this Assignment any further identification, including the application serial number and/or application filing date which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document and/or to insert the execution date of this assignment. The undersigned hereby further grant(s) the law firm of Straub & Pokotylo, and its successors the power to make corrections in the assignor information and the assignee information including the assignor name and/or address and the assignee name and/or address.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this
_____ day of _____, 2015.

Tolga Asveren, Assignor

WITNESSED BY:

Witness signature

Witness name (Please print)

Address

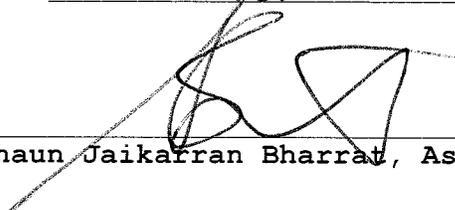
WITNESSED BY:

Witness signature

Witness name (Please print)

Address

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this
17th day of November, 2015.



Shaun Jaikarran Bharrat, Assignor

WITNESSED BY:

Michael Ruggieri

Witness signature

Michael Ruggieri

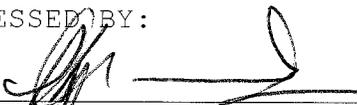
Witness name (Please print)

16 Thomas Drive

Address

Manalapan NJ 07726

WITNESSED BY:



Witness signature

ABY KURIAROSE

Witness name (Please print)

31 SILVERBROOKE Cn

Address

Howell NJ 07731

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this
_____ day of _____, 2015.

Subhransu S. Nayak, Assignor

WITNESSED BY:

Witness signature

Witness name (Please print)

Address

WITNESSED BY:

Witness signature

Witness name (Please print)

Address
