

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4483505

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|---|-------------------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| RAMI ALISAWI | 10/28/2014 |
| ARI BACKHOLM | 10/28/2014 |
| HUAJIE HU | 10/20/2014 |
| ALEXANDR SELEZNYOV | 10/17/2014 |
| JIE WEI | 10/27/2014 |
| SUNGWOOK YOON | 10/14/2014 |
| RECEIVING PARTY DATA | |
| Name: | SEVEN NETWORKS, INC. |
| Street Address: | 959 SKYWAY ROAD |
| Internal Address: | SUITE 100 |
| City: | SAN CARLOS |
| State/Country: | CALIFORNIA |
| Postal Code: | 94070 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 15630523 |
| CORRESPONDENCE DATA | |
| Fax Number: | (919)882-8195 |
| <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: | 919-348-2194 |
| Email: | docket@nkpatentlaw.com |
| Correspondent Name: | JUSTIN R. NIFONG |
| Address Line 1: | 4917 WATERS EDGE DRIVE |
| Address Line 2: | SUITE 275 |
| Address Line 4: | RALEIGH, NORTH CAROLINA 27606 |
| ATTORNEY DOCKET NUMBER: | 455/171/4 UTIL |
| NAME OF SUBMITTER: | JUSTIN R. NIFONG |
| SIGNATURE: | /Justin R. Nifong/ |
| DATE SIGNED: | 06/29/2017 |

PATENT

Total Attachments: 22

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DECLARATION AND ASSIGNMENT OF RIGHTS

As a below named inventor (hereinafter designated as the undersigned or the Assignor, where appropriate), I hereby declare that:

The application is as identified by the attorney docket number, title, Filing Date, or Application Title as set forth in the following Table I:

The application in Table I was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application(s) listed in Table I.

The undersigned hereby acknowledges that any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or imprisonment of not more than five (5) years, or both.

TABLE I

| Attorney Docket No. | Application No. | Title | Filing Date |
|---------------------|-----------------|--|-------------|
| 455/171 PROV | 61/833,844 | OFFLOADING APPLICATION TRAFFIC TO A SHARED COMMUNICATION CHANNEL FOR SIGNAL OPTIMIZATION IN A WIRELESS NETWORK FOR TRAFFIC UTILIZING PROPRIETARY AND NON-PROPRIETARY PROTOCOLS | 6/11/2013 |
| 455/171 PCT | PCT/US14/42006 | OFFLOADING APPLICATION TRAFFIC TO A SHARED COMMUNICATION CHANNEL FOR SIGNAL OPTIMIZATION IN A WIRELESS NETWORK FOR TRAFFIC UTILIZING PROPRIETARY AND NON-PROPRIETARY PROTOCOLS | 6/11/2014 |
| 455/171/2 PCT-CON | 14/474,329 | OFFLOADING APPLICATION TRAFFIC TO A SHARED COMMUNICATION CHANNEL FOR SIGNAL OPTIMIZATION IN A WIRELESS NETWORK FOR TRAFFIC UTILIZING PROPRIETARY AND NON-PROPRIETARY PROTOCOLS | 9/2/2014 |

FURTHERMORE, WHEREAS, the undersigned, Ari Backholm, (hereinafter "Assignor") has invented certain new and useful improvements described in the applications identified in Table I.

AND, WHEREAS, Seven Networks, Inc., having a place of business at 959 Skyway Road, Suite 100, San Carlos, CA 94070 (hereinafter "Assignee"), has already acquired an interest in the applications identified in Table I by and through an employment or other agreement between Assignor and Assignee.

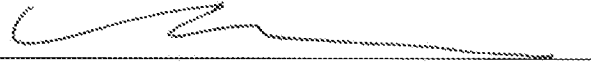
However, in the avoidance of doubt and as confirmation of the already acquired interest by Assignee, NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor has assigned and by these presents does hereby sell, assign, transfer, and convey unto the Assignee, its successors and assigns, his entire right, title, and interest in and to the invention and application, including the right to sue for past infringements and any other prior occurring rights, provided any such rights exist, and in and to any and all domestic and foreign patent applications filed on the invention, and in and to any and all continuations, continuations-in-part, or divisions thereof, and in and to any and all Letters Patent of the United States of America, and all foreign countries or reissues thereof which may be granted therefor or thereon, for the full end of the term for which said Letters Patent may be granted, together with his right to claim the priority of said application in all foreign countries in accordance with the International Convention, the same to be held and enjoyed by said Assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by Assignor if this assignment and sale had not been made. Assignor further assigns to Assignee the right to claim entitlement and/or priority to any applications that entitlement or priority may be claimed for this or any later filed application. The assignment of the right to claim entitlement and/or priority is executed *nunc pro tunc* and is considered effective as of the filing date of the earliest application to which priority and/or entitlement is claimed.

Assignor hereby requests that said Letters Patent be issued in accordance with this assignment.

Assignor further covenants and agrees that, at the time of the execution and delivery of these presents, Assignor possesses full title to the invention and application above-mentioned, and that he has the unencumbered right and authority to make this assignment.

Assignor further covenants and agrees, and likewise binds his heirs, legal representatives and assigns, to promptly communicate to said Assignee or its representatives any facts known to him relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the Assignee, its representatives, successors and assigns to secure patent or similar protection for the said invention in all countries and to vest in the Assignee complete title to the said invention and Letters Patent, without further compensation, but at the expense of said Assignee, its successors, assigns and other legal representatives.

Executed this 28 day of October, 2014.

A handwritten signature in black ink, appearing to read 'Ari Backholm', written over a horizontal line.

Ari Backholm

DECLARATION AND ASSIGNMENT OF RIGHTS

WHEREAS, the undersigned, Huajie Hu, (hereinafter "Assignor") has invented certain new and useful improvements described in the applications identified in Table I.

AND, WHEREAS, Seven Networks, Inc., having a place of business at 959 Skyway Road, Suite 100, San Carlos, CA 94070 (hereinafter "Assignee"), has already acquired an interest in the applications identified in Table I by and through an employment or other agreement between Assignor and Assignee. I further authorize an agent of the Assignee to insert the filing date, application number, and any other identifying particulars as required for perfecting these assignment papers.

However, in the avoidance of doubt and as confirmation of the already acquired interest by Assignee, NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor has assigned and by these presents does hereby sell, assign, transfer, and convey unto the Assignee, its successors and assigns, his entire right, title, and interest in and to the invention and application, including the right to sue for past infringements and any other prior occurring rights, provided any such rights exist, and in and to any and all domestic and foreign patent applications filed on the invention, and in and to any and all continuations, continuations-in-part, or divisions thereof, and in and to any and all Letters Patent of the United States of America, and all foreign countries or reissues thereof which may be granted therefor or thereon, for the full end of the term for which said Letters Patent may be granted, together with his right to claim the priority of said application in all foreign countries in accordance with the International Convention, the same to be held and enjoyed by said Assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by Assignor if this assignment and sale had not been made. Assignor further assigns to Assignee the right to claim entitlement and/or priority to any applications that entitlement or priority may be claimed for this or any later filed application, including the assignment of any provisionals or other priority documents to which the inventions claim priority to. The assignment of the right to claim entitlement and/or priority is executed *nunc pro tunc* and is considered effective as of the filing date of the earliest application to which priority and/or entitlement is claimed.

Assignor hereby requests that said Letters Patent be issued in accordance with this assignment.

Assignor further covenants and agrees that, at the time of the execution and delivery of these presents, Assignor possesses full title to the invention and application above-mentioned, and that he has the unencumbered right and authority to make this assignment.

Assignor further covenants and agrees, and likewise binds his heirs, legal representatives and assigns, to promptly communicate to said Assignee or its representatives any facts known to him relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the Assignee, its representatives, successors and assigns to secure patent or similar protection for the said invention in all countries and to vest in the Assignee complete title to the said invention and Letters Patent, without further compensation, but at the expense of said Assignee, its successors, assigns and other legal representatives.

Furthermore, as a below named inventor (hereinafter designated as the undersigned or the Assignor, where appropriate), I hereby declare that:

The application is as identified by the attorney docket number, title, Filing Date, or Application Title as set forth in the following Table I.

The application in Table I was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the applications in Table I.

The undersigned hereby acknowledged that any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or imprisonment of not more than five (5) years, or both

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TABLE I and Signature Page follows

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TABLE I

| Application No. | Attorney Docket No. | Filing Date | Title |
|-----------------|---------------------|-------------|--|
| 61/833,796 | 455/169 PRO | 6/11/2013 | APPLICATION AND/OR SERVER STABILITY IN SIGNALING OPTIMIZATION IN A WIRELESS NETWORK FOR TRAFFIC UTILIZING PROPRIETARY AND NON-PROPRIETARY PROTOCOLS |
| PCT/US14/42017 | 455/169/1 PCT | 6/11/2014 | APPLICATION AND/OR SERVER STABILITY IN SIGNALING OPTIMIZATION IN A WIRELESS NETWORK FOR TRAFFIC UTILIZING PROPRIETARY AND NON-PROPRIETARY PROTOCOLS |
| 61/836,091 | 455/169/1 PRO | 6/17/2013 | APPLICATION AND/OR SERVER STABILITY IN SIGNALING OPTIMIZATION IN A WIRELESS NETWORK FOR TRAFFIC UTILIZING PROPRIETARY AND NON-PROPRIETARY PROTOCOLS |
| 14/474,231 | 455/169/2 PCT/CON | 9/1/2014 | APPLICATION AND/OR SERVER STABILITY IN SIGNALING OPTIMIZATION IN A WIRELESS NETWORK FOR TRAFFIC UTILIZING PROPRIETARY AND NON-PROPRIETARY PROTOCOLS |
| PCT/US14/42006 | 455/171 PCT | 6/11/2014 | OFFLOADING APPLICATION TRAFFIC TO A SHARED COMMUNICATION CHANNEL FOR SIGNAL OPTIMIZATION IN A WIRELESS NETWORK FOR TRAFFIC UTILIZING PROPRIETARY AND NON-PROPRIETARY PROTOCOLS |
| 14/474,329 | 455/171/2-PCT-CON | 9/2/2014 | OFFLOADING APPLICATION TRAFFIC TO A SHARED COMMUNICATION CHANNEL FOR SIGNAL OPTIMIZATION IN A WIRELESS NETWORK FOR TRAFFIC UTILIZING PROPRIETARY AND NON-PROPRIETARY PROTOCOLS |
| PCT/US14/40772 | 455/178/1 PCT | 6/3/2014 | BLOCKING/UNBLOCKING ALGORITHMS FOR SIGNALING OPTIMIZATION IN A WIRELESS NETWORK FOR TRAFFIC UTILIZING PROPRIETARY AND NON-PROPRIETARY PROTOCOLS |
| 14/474,278 | 455/178/2 PCT/CON | 9/1/2014 | BLOCKING/UNBLOCKING ALGORITHMS FOR SIGNALING OPTIMIZATION IN A WIRELESS NETWORK FOR TRAFFIC UTILIZING PROPRIETARY AND NON-PROPRIETARY PROTOCOLS |

Executed this 20 day of Oct, 2014.

Huajie Hu

Huajie Hu

DECLARATION AND ASSIGNMENT OF RIGHTS

WHEREAS, the undersigned, Jie Wei, (hereinafter "Assignor") has invented certain new and useful improvements described in the applications identified in Table I,

AND, WHEREAS, Seven Networks, Inc., having a place of business at 959 Skyway Road, Suite 100, San Carlos, CA 94070 (hereinafter "Assignee"), has already acquired an interest in the applications identified in Table I by and through an employment or other agreement between Assignor and Assignee.

However, in the avoidance of doubt and as confirmation of the already acquired interest by Assignee, NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor has assigned and by these presents does hereby sell, assign, transfer, and convey unto the Assignee, its successors and assigns, his entire right, title, and interest in and to the invention and application, including the right to sue for past infringements and any other prior occurring rights, provided any such rights exist, and in and to any and all domestic and foreign patent applications filed on the invention, and in and to any and all continuations, continuations-in-part, or divisions thereof, and in and to any and all Letters Patent of the United States of America, and all foreign countries or reissues thereof which may be granted therefor or thereon, for the full end of the term for which said Letters Patent may be granted, together with his right to claim the priority of said application in all foreign countries in accordance with the International Convention, the same to be held and enjoyed by said Assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by Assignor if this assignment and sale had not been made. Assignor further assigns to Assignee the right to claim entitlement and/or priority to any applications that entitlement or priority may be claimed for this or any later filed application, including the assignment of any provisionals or other priority documents to which the inventions claim priority to. The assignment of the right to claim entitlement and/or priority is executed *nunc pro tunc* and is considered effective as of the filing date of the earliest application to which priority and/or entitlement is claimed.

Assignor hereby requests that said Letters Patent be issued in accordance with this assignment.

Assignor further covenants and agrees that, at the time of the execution and delivery of these presents, Assignor possesses full title to the invention and application above-mentioned, and that he has the unencumbered right and authority to make this assignment.

Assignor further covenants and agrees, and likewise binds his heirs, legal representatives and assigns, to promptly communicate to said Assignee or its representatives any facts known to him relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the Assignee, its representatives, successors and assigns to secure patent or similar protection for the said invention in all countries and to vest in the Assignee complete title to the said invention and Letters Patent, without further compensation, but at the expense of said Assignee, its successors, assigns and other legal representatives.

Furthermore, as a below named inventor (hereinafter designated as the undersigned or the Assignor, where appropriate), I hereby declare that:

The application is as identified by the attorney docket number, title, Filing Date, or Application Title as set forth in the following Table I:

The application in Table I was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the applications in Table I.

The undersigned hereby acknowledged that any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or imprisonment of not more than five (5) years, or both

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Table I follows

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TABLE I

| Application No. | Attorney Docket No. | Filing Date | Title |
|-----------------|---------------------|-------------|--|
| 14474329 | 455/171/2-PCT-CON | 9/2/2014 | OFFLOADING APPLICATION TRAFFIC TO A SHARED COMMUNICATION CHANNEL FOR SIGNAL OPTIMIZATION IN A WIRELESS NETWORK FOR TRAFFIC UTILIZING PROPRIETARY AND NON-PROPRIETARY PROTOCOLS |
| 14474278 | 455/178/2 PCT/CON | 9/1/2014 | BLOCKING/UNBLOCKING ALGORITHMS FOR SIGNALING OPTIMIZATION IN A WIRELESS NETWORK FOR TRAFFIC UTILIZING PROPRIETARY AND NON-PROPRIETARY PROTOCOLS |
| 14474231 | 455/169/2 PCT/CON | 9/1/2014 | APPLICATION AND/OR SERVER STABILITY IN SIGNALING OPTIMIZATION IN A WIRELESS NETWORK FOR TRAFFIC UTILIZING PROPRIETARY AND NON-PROPRIETARY PROTOCOLS |
| PCT/US14/42017 | 455/169/1 PCT | 6/11/2014 | APPLICATION AND/OR SERVER STABILITY IN SIGNALING OPTIMIZATION IN A WIRELESS NETWORK FOR TRAFFIC UTILIZING PROPRIETARY AND NON-PROPRIETARY PROTOCOLS |
| PCT/US14/42006 | 455/171 PCT | 6/11/2014 | OFFLOADING APPLICATION TRAFFIC TO A SHARED COMMUNICATION CHANNEL FOR SIGNAL OPTIMIZATION IN A WIRELESS NETWORK FOR TRAFFIC UTILIZING PROPRIETARY AND NON-PROPRIETARY PROTOCOLS |
| PCT/US14/40772 | 455/178/1 PCT | 6/3/2014 | BLOCKING/UNBLOCKING ALGORITHMS FOR SIGNALING OPTIMIZATION IN A WIRELESS NETWORK FOR TRAFFIC UTILIZING PROPRIETARY AND NON-PROPRIETARY PROTOCOLS |

Executed this ____ day of _____, 2014.

Jie Wei

TABLE 1

| Application No. | Attorney Docket No. | Filing Date | Title |
|-----------------|------------------------|----------------|---|
| PCT/US14-42005 | 455/177/2 PCT/CA08 | 9/22/2014 | OFFLOADING APPLICATION TRAFFIC TO A SHARED COMMUNICATION CHANNEL FOR SIGNAL OPTIMIZATION IN A WIRELESS NETWORK FOR TRAFFIC UTILIZING PROPRIETARY AND NON-PROPRIETARY PROTOCOLS |
| PCT/US14-42006 | 455/177/3 PCT/CA08 | 9/22/2014 | BLOCKING/UNBLOCKING ALGORITHMS FOR SIGNALING OPTIMIZATION IN A WIRELESS NETWORK FOR TRAFFIC UTILIZING PROPRIETARY AND NON-PROPRIETARY PROTOCOLS |
| PCT/US14-42007 | 455/180/2 PCT/CA08 | 9/22/2014 | APPLICATION AND/OR SERVER STABILITY IN SIGNALING OPTIMIZATION IN A WIRELESS NETWORK FOR TRAFFIC UTILIZING PROPRIETARY AND NON-PROPRIETARY PROTOCOLS |
| PCT/US14-42008 | 455/180/3 PCT | 9/22/2014 | APPLICATION AND/OR SERVER STABILITY IN SIGNALING OPTIMIZATION IN A WIRELESS NETWORK FOR TRAFFIC UTILIZING PROPRIETARY AND NON-PROPRIETARY PROTOCOLS |
| PCT/US14-42009 | 455/177/1 PCT | 6/11/2014 | OFFLOADING APPLICATION TRAFFIC TO A SHARED COMMUNICATION CHANNEL FOR SIGNAL OPTIMIZATION IN A WIRELESS NETWORK FOR TRAFFIC UTILIZING PROPRIETARY AND NON-PROPRIETARY PROTOCOLS |
| PCT/US14-40772 | 455/178/1 PCT | 6/3/2014 | BLOCKING/UNBLOCKING ALGORITHMS FOR SIGNALING OPTIMIZATION IN A WIRELESS NETWORK FOR TRAFFIC UTILIZING PROPRIETARY AND NON-PROPRIETARY PROTOCOLS |

Executed this 27 day of 10, 2014.

Jie Wei

DECLARATION AND ASSIGNMENT OF RIGHTS

WHEREAS, the undersigned, Rami Alisawi, (hereinafter "Assignor") has invented certain new and useful improvements described in the applications identified in Table I.

AND, WHEREAS, Seven Networks, Inc., having a place of business at 959 Skyway Road, Suite 100, San Carlos, CA 94070 (hereinafter "Assignee"), has already acquired an interest in the applications identified in Table I by and through an employment or other agreement between Assignor and Assignee. I further authorize an agent of the Assignee to insert the filing date, application number, and any other identifying particulars as required for perfecting these assignment papers.

However, in the avoidance of doubt and as confirmation of the already acquired interest by Assignee, NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor has assigned and by these presents does hereby sell, assign, transfer, and convey unto the Assignee, its successors and assigns, his entire right, title, and interest in and to the invention and application, including the right to sue for past infringements and any other prior occurring rights, provided any such rights exist, and in and to any and all domestic and foreign patent applications filed on the invention, and in and to any and all continuations, continuations-in-part, or divisions thereof, and in and to any and all Letters Patent of the United States of America, and all foreign countries or reissues thereof which may be granted therefor or thereon, for the full end of the term for which said Letters Patent may be granted, together with his right to claim the priority of said application in all foreign countries in accordance with the International Convention, the same to be held and enjoyed by said Assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by Assignor if this assignment and sale had not been made. Assignor further assigns to Assignee the right to claim entitlement and/or priority to any applications that entitlement or priority may be claimed for this or any later filed application, including the assignment of any provisionals or other priority documents to which the inventions claim priority to. The assignment of the right to claim entitlement and/or priority is executed *nunc pro tunc* and is considered effective as of the filing date of the earliest application to which priority and/or entitlement is claimed.

Assignor hereby requests that said Letters Patent be issued in accordance with this assignment.

Assignor further covenants and agrees that, at the time of the execution and delivery of these presents, Assignor possesses full title to the invention and application above-mentioned, and that he has the unencumbered right and authority to make this assignment.

Assignor further covenants and agrees, and likewise binds his heirs, legal representatives and assigns, to promptly communicate to said Assignee or its representatives any facts known to him relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the Assignee, its representatives, successors and assigns to secure patent or similar protection for the said invention in all countries and to vest in the Assignee complete title to the said invention and Letters Patent, without further compensation, but at the expense of said Assignee, its successors, assigns and other legal representatives.

Furthermore, as a below named inventor (hereinafter designated as the undersigned or the Assignor, where appropriate), I hereby declare that:

The application is as identified by the attorney docket number, title, Filing Date, or Application Title as set forth in the following Table I.

The application in Table I was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the applications in Table I.

The undersigned hereby acknowledged that any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or imprisonment of not more than five (5) years, or both

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TABLE I and Signature Page follows

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TABLE I

| Application No. | Attorney Docket No. | Filing Date | Title |
|-----------------|---------------------|-------------|--|
| PCT/US14/42006 | 455/171 PCT | 6/11/2014 | OFFLOADING APPLICATION TRAFFIC TO A SHARED COMMUNICATION CHANNEL FOR SIGNAL OPTIMIZATION IN A WIRELESS NETWORK FOR TRAFFIC UTILIZING PROPRIETARY AND NON-PROPRIETARY PROTOCOLS |
| 14/474,329 | 455/171/2-PCT-CON | 9/2/2014 | OFFLOADING APPLICATION TRAFFIC TO A SHARED COMMUNICATION CHANNEL FOR SIGNAL OPTIMIZATION IN A WIRELESS NETWORK FOR TRAFFIC UTILIZING PROPRIETARY AND NON-PROPRIETARY PROTOCOLS |

Executed this in Espoo day of 28 Oct, 2014.



Rami Alisawi

DECLARATION AND ASSIGNMENT OF RIGHTS

WHEREAS, the undersigned, Sungwook Yoon, (hereinafter "Assignor") has invented certain new and useful improvements described in the applications identified in Table I.

AND, WHEREAS, Seven Networks, Inc., having a place of business at 959 Skyway Road, Suite 100, San Carlos, CA 94070 (hereinafter "Assignee"), has already acquired an interest in the applications identified in Table I by and through an employment or other agreement between Assignor and Assignee.

However, in the avoidance of doubt and as confirmation of the already acquired interest by Assignee, NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor has assigned and by these presents does hereby sell, assign, transfer, and convey unto the Assignee, its successors and assigns, his entire right, title, and interest in and to the invention and application, including the right to sue for past infringements and any other prior occurring rights, provided any such rights exist, and in and to any and all domestic and foreign patent applications filed on the invention, and in and to any and all continuations, continuations-in-part, or divisions thereof, and in and to any and all Letters Patent of the United States of America, and all foreign countries or reissues thereof which may be granted therefor or thereon, for the full end of the term for which said Letters Patent may be granted, together with his right to claim the priority of said application in all foreign countries in accordance with the International Convention, the same to be held and enjoyed by said Assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by Assignor if this assignment and sale had not been made. Assignor further assigns to Assignee the right to claim entitlement and/or priority to any applications that entitlement or priority may be claimed for this or any later filed application, including the assignment of any provisionals or other priority documents to which the inventions claim priority to. The assignment of the right to claim entitlement and/or priority is executed *nunc pro tunc* and is considered effective as of the filing date of the earliest application to which priority and/or entitlement is claimed.

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Assignor further covenants and agrees, and likewise binds his heirs, legal representatives and assigns, to promptly communicate to said Assignee or its representatives any facts known to him relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the Assignee, its representatives, successors and assigns to secure patent or similar protection for the said invention in all countries and to vest in the Assignee complete title to the said invention and Letters Patent, without further compensation, but at the expense of said Assignee, its successors, assigns and other legal representatives.

Furthermore, as a below named inventor (hereinafter designated as the undersigned or the Assignor, where appropriate), I hereby declare that:

The application is as identified by the attorney docket number, title, Filing Date, or Application Title as set forth in the following Table I:

The application in Table I was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the applications in Table I.

The undersigned hereby acknowledged that any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or imprisonment of not more than five (5) years, or both

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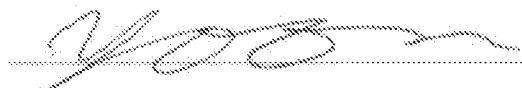
Table I follows

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TABLE I

| Application Number | Attorney Docket Number | Filing Date | Title |
|--------------------|------------------------|-------------|--|
| 14/500,241 | 455/174 UTIL | 9/29/2014 | Optimizing Traffic by Controlling Keep-Alives |
| 14/474,329 | 455/171/2- PCT-CON | 9/2/2014 | OFFLOADING APPLICATION TRAFFIC TO A SHARED COMMUNICATION CHANNEL FOR SIGNAL OPTIMIZATION IN A WIRELESS NETWORK FOR TRAFFIC UTILIZING PROPRIETARY AND NON-PROPRIETARY PROTOCOLS |
| PCT/US14/42006 | 455/171 PCT | 6/11/2014 | OFFLOADING APPLICATION TRAFFIC TO A SHARED COMMUNICATION CHANNEL FOR SIGNAL OPTIMIZATION IN A WIRELESS NETWORK FOR TRAFFIC UTILIZING PROPRIETARY AND NON-PROPRIETARY PROTOCOLS |
| PCT/US14/40772 | 455/178/1 PCT | 6/3/2014 | BLOCKING/UNBLOCKING ALGORITHMS FOR SIGNALING OPTIMIZATION IN A WIRELESS NETWORK FOR TRAFFIC UTILIZING PROPRIETARY AND NON-PROPRIETARY PROTOCOLS |
| PCT/US14/40575 | 455/174 PCT | 6/2/2014 | Optimizing Traffic by Controlling Keep-Alives |
| 14/266,759 | 455/173/3 UTIL | 4/30/2014 | Detection and Reporting of Keepalive Messages for Optimization of Keepalive Traffic in a Mobile Network |
| 14/474,278 | 455/178/2 PCT-CON | 9/1/2014 | BLOCKING/UNBLOCKING ALGORITHMS FOR SIGNALING OPTIMIZATION IN A WIRELESS NETWORK FOR TRAFFIC UTILIZING PROPRIETARY AND NON-PROPRIETARY PROTOCOLS |

Executed this 14 day of OCT, 2014.


Sungwook Yoon

DECLARATION AND ASSIGNMENT OF RIGHTS

WHEREAS, the undersigned, Alexandr Seleznyov, (hereinafter "Assignor") has invented certain new and useful improvements described in the applications identified in Table I.

AND, WHEREAS, Seven Networks, Inc., having a place of business at 959 Skyway Road, Suite 100, San Carlos, CA 94070 (hereinafter "Assignee"), has already acquired an interest in the applications identified in Table I by and through an employment or other agreement between Assignor and Assignee. I further authorize an agent of the Assignee to insert the filing date, application number, and any other identifying particulars as required for perfecting these assignment papers.

However, in the avoidance of doubt and as confirmation of the already acquired interest by Assignee, NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor has assigned and by these presents does hereby sell, assign, transfer, and convey unto the Assignee, its successors and assigns, his entire right, title, and interest in and to the invention and application, including the right to sue for past infringements and any other prior occurring rights, provided any such rights exist, and in and to any and all domestic and foreign patent applications filed on the invention, and in and to any and all continuations, continuations-in-part, or divisions thereof, and in and to any and all Letters Patent of the United States of America, and all foreign countries or reissues thereof which may be granted therefor or thereon, for the full end of the term for which said Letters Patent may be granted, together with his right to claim the priority of said application in all foreign countries in accordance with the International Convention, the same to be held and enjoyed by said Assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by Assignor if this assignment and sale had not been made. Assignor further assigns to Assignee the right to claim entitlement and/or priority to any applications that entitlement or priority may be claimed for this or any later filed application, including the assignment of any provisionals or other priority documents to which the inventions claim priority to. The assignment of the right to claim entitlement and/or priority is executed *nunc pro tunc* and is considered effective as of the filing date of the earliest application to which priority and/or entitlement is claimed.

Assignor hereby requests that said Letters Patent be issued in accordance with this assignment.

Assignor further covenants and agrees that, at the time of the execution and delivery of these presents, Assignor possesses full title to the invention and application above-mentioned, and that he has the unencumbered right and authority to make this assignment.

Assignor further covenants and agrees, and likewise binds his heirs, legal representatives and assigns, to promptly communicate to said Assignee or its representatives any facts known to him relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the Assignee, its representatives, successors and assigns to secure patent or similar protection for the said invention in all countries and to vest in the Assignee complete title to the said invention and Letters Patent, without further compensation, but at the expense of said Assignee, its successors, assigns and other legal representatives.

Furthermore, as a below named inventor (hereinafter designated as the undersigned or the Assignor, where appropriate), I hereby declare that:

The application is as identified by the attorney docket number, title, Filing Date, or Application Title as set forth in the following Table I.

The application in Table I was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the applications in Table I.

The undersigned hereby acknowledged that any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or imprisonment of not more than five (5) years, or both

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TABLE I and Signature Page follows

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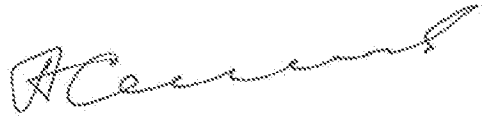
TABLE I

| Application No. | Attorney Docket No. | Filing Date | Title |
|-----------------|---------------------|-------------|--|
| PCT/US14/42006 | 455/171 PCT | 6/11/2014 | OFFLOADING APPLICATION TRAFFIC TO A SHARED COMMUNICATION CHANNEL FOR SIGNAL OPTIMIZATION IN A WIRELESS NETWORK FOR TRAFFIC UTILIZING PROPRIETARY AND NON-PROPRIETARY PROTOCOLS |
| 14/474,329 | 455/171/2-PCT-CON | 9/2/2014 | OFFLOADING APPLICATION TRAFFIC TO A SHARED COMMUNICATION CHANNEL FOR SIGNAL OPTIMIZATION IN A WIRELESS NETWORK FOR TRAFFIC UTILIZING PROPRIETARY AND NON-PROPRIETARY PROTOCOLS |
| PCT/US13/61488 | 455/177 PCT | 9/24/2013 | SELECTIVE ACTIVATION OF NETWORK MANAGEMENT POLICIES OF MOBILE DEVICES IN A MOBILE NETWORK |
| 61/835,783 | 455/177 PRO | 6/17/2013 | SELECTIVE ACTIVATION OF NETWORK MANAGEMENT POLICIES OF MOBILE DEVICES IN A MOBILE NETWORK |

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|----------------|-------------------|-----------|--|
| 14/025,765 | 455/177/1 UTIL | 9/12/2013 | SELECTIVE ACTIVATION OF NETWORK MANAGEMENT POLICIES OF MOBILE DEVICES IN A MOBILE NETWORK |
| 14/025,788 | 455/177/2 UTIL | 9/12/2013 | SYSTEMS FOR SELECTIVE ACTIVATION OF NETWORK MANAGEMENT POLICIES OF MOBILE DEVICES IN A MOBILE NETWORK |
| PCT/US14/40772 | 455/178/1 PCT | 6/3/2014 | BLOCKING/UNBLOCKING ALGORITHMS FOR SIGNALING OPTIMIZATION IN A WIRELESS NETWORK FOR TRAFFIC UTILIZING PROPRIETARY AND NON- PROPRIETARY PROTOCOLS |
| 14/474,278 | 455/178/2 PCT/CON | 9/1/2014 | BLOCKING/UNBLOCKING ALGORITHMS FOR SIGNALING OPTIMIZATION IN A WIRELESS NETWORK FOR TRAFFIC UTILIZING PROPRIETARY AND NON- PROPRIETARY PROTOCOLS |
| PCT/US14/42817 | 455/180 PCT | 6/17/2014 | SECURE MECHANISM TO DELIVER MOBILE TRAFFIC MANAGEMENT CONFIGURATION UPON STUB ACTIVATION ON A MOBILE DEVICE OF A GLOBAL SERVICE DISCOVERY SERVER |

| | | | |
|------------|-------------------|----------|---|
| 14/474,326 | 455/180/2-PCT-CON | 9/2/2014 | SECURE MECHANISM TO DELIVER MOBILE TRAFFIC MANAGEMENT CONFIGURATION UPON STUB ACTIVATION ON A MOBILE DEVICE OF A GLOBAL SERVICE DISCOVERY SERVER |
| 14/474,327 | 455/180/3-PCT-CON | 9/2/2014 | SECURE MECHANISM TO DELIVER MOBILE TRAFFIC MANAGEMENT CONFIGURATION UPON STUB ACTIVATION ON A MOBILE DEVICE OF A GLOBAL SERVICE DISCOVERY SERVER |

Executed this 17 day of October, 2014.



Alexandr Seleznyov