PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ARI BACKHOLM	09/05/2014

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:	14525446

CORRESPONDENCE DATA

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using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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ATTORNEY DOCKET NUMBER:	455/162/1 UTIL
NAME OF SUBMITTER:	JUSTIN R. NIFONG
SIGNATURE:	/Justin R. Nifong/
DATE SIGNED:	11/07/2014
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 7

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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
		E-MAIL MESSAGING TO/FROM A MOBILE	
455/006 PCT1	FI05/50424	TERMINAL	11/21/2005
455/006 PCT2	FI05/50426	DATA SECURITY IN A MOBILE E-MAIL SERVICE	11/21/2005
***************************************		E-MAIL MESSAGING TO/FROM A MOBILE	
455/006 PROV1	60/650,975	TERMINAL	2/9/2005
455/006 PROV2	60/651,082	DATA SECURITY IN A MOBILE E-MAIL SERVICE	2/9/2005
455/006/2 UTIL	11/282,607	DATA SECURITY IN A MOBILE E-MAIL SERVICE	11/21/2005
		E-MAIL MESSAGING TO/FROM A MOBILE	
455/006/3 UTIL	11/282,950	TERMINAL	11/21/2005
		MAINTAINING MOBILE TERMINAL	
		INFORMATION FOR SECURE	
455/006/4 UTIL	12/205,747	COMMUNICATIONS	9/5/2008
455/006/5 UTIL	12/228,325	Messaging centre for forwarding e-mail	8/11/2008
		CONNECTIVITY FUNCTION FOR FORWARDING	
455/006/6	12/228,424	E-MAIL	8/11/2008
		PROVISIONING OF E-MAIL SETTINGS FOR A	***************************************
455/009 PCT	FI05/50441	MOBILE TERMINAL	12/1/2005
		PROVISIONING OF E-MAIL SETTINGS FOR A	
455/009 PROV	60/651,081	MOBILE TERMINAL	2/9/2005
		PROVISIONING OF E-MAIL SETTINGS FOR A	
455/009/1 UTIL	11/289,308	MOBILE TERMINAL	11/30/2005
455/009/2 UTIL	13/349,220	PROVISIONING OF E-MAIL SETTINGS FOR A	1/12/2012

		MOBILE TERMINAL	
		MAINTAINING AN IP CONNECTION IN A	
455/015 PCT	FI06/50271	MOBILE NETWORK	6/19/2006
		MAINTAINING AN IP CONNECTION IN A	
455/015 PROV	60/707,170	MOBILE NETWORK	8/11/2005
		MAINTAINING AN IP CONNECTION IN A	
455/015/1 UTIL	11/471,630	MOBILE NETWORK	6/21/2006
		MAINTAINING AN IP CONNECTION IN A	
455/015/2 UTIL	12/853,119	MOBILE NETWORK	8/9/2010
		DYNAMIC ADJUSTMENT OF KEEP-ALIVE	
455/015/3 US	13/043,425	MESSAGE INTERVALS IN A MOBILE NETWORK	3/8/2011
		MAINTAINING AN IP CONNECTION IN A	
455/015/4 UTIL	13/613,694	MOBILE NETWORK	9/13/2012
133/023/10112		DYNAMIC ADJUSTMENT OF KEEP-ALIVE	
		MESSAGES FOR EFFICIENT BATTERY USAGE IN	
455/015/5US	14/283,193	A MOBILE NETWORK	5/20/2014
100/000/000		NETWORK-INITIATED DATA TRANSFER IN A	<u> </u>
455/016 PCT	FI06/50272	MOBILE NETWORK	6/19/2006
7337020101	174472222	NETWORK-INITIATED DATA TRANSFER IN A	
455/016 PROV	60/707,171	MOBILE NETWORK	8/11/2005
700,01077101	22,72.72.	NETWORK-INITIATED DATA TRANSFER IN A	
455/016/1 UTIL	11/471,704	MOBILE NETWORK	6/21/2006
(33) 020) 2 0 1,2	Lay 11 ayr 01	NETWORK-INITIATED DATA TRANSFER IN A	
455/016/2 UTIL	12/860,419	MOBILE NETWORK	8/20/2010
455/031/02 UTIL	13/614,583	FLEXIBLE REAL-TIME INBOX ACCESS	9/13/2012
455/031/1 UTIL	11/640,629	FLEXIBLE REAL-TIME INBOX ACCESS	12/18/2006
		ELECTRONIC-MAIL FILTERING FOR MOBILE	
455/032/1 UTIL	12/001,288	DEVICES	12/10/2007
	, , , , , , , , , , , , , , , , , , , ,	ELECTRONIC-MAIL FILTERING FOR MOBILE	
455/032/2 UTIL	13/735,811	DEVICES	1/7/2013
,,		ELECTRONIC-MAIL FILTERING FOR MOBILE	
455/032/3US	14/288,346	DEVICES	5/27/2014
455/037/1 UTIL	12/141,871	APPLICATION DISCOVERY ON MOBILE DEVICES	6/18/2008
133/001/2011		PROVISIONING APPLICATIONS FOR A MOBILE	
455/038/1 UTIL	12/215,481	DEVICE	6/26/2008
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		PROVISIONING APPLICATIONS FOR A MOBILE	
455/038/2 UTIL	13/312,664	DEVICE	12/6/2011
		CONTEXT AWARE TRAFFIC MANAGEMENT FOR	
		RESOURCE CONSERVATION IN A WIRELESS	
455/102 PCT	PCT/US11/43328	NETWORK	7/8/2011
<		CONTEXT AWARE TRAFFIC MANAGEMENT FOR	
		RESOURCE CONSERVATION IN A WIRELESS	
455/102 PROV	61/367,871	NETWORK	7/26/2010
		CONTEXT AWARE TRAFFIC MANAGEMENT FOR	
		RESOURCE CONSERVATION IN A WIRELESS	
455/102/1 UTIL	13/178,598	NETWORK	7/8/2011

	MOBILE DEVICE RADIO USE OPTIMIZATION BY	
13/407 406		2/28/2012
15) 407,400		2,20,2012
13/477 625		5/22/2012
15/477,025		3/22/2012
13/115 631		5/25/2011
15/115,031		3/23/2011
11511/03322		7/8/2011
0311/43322		1/0/2011
61/409 920		11/1/2010
01/408,023		11/1/2010
12/179 675		7/8/2011
13/1/0,0/3		1/0/2011
4 4 / 4 / 7 7 7 7 7		9/25/2034
14/46/,//3		8/25/2014
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11044 (700010		20/2/2022
US11/58843	<u> </u>	11/1/2011
		(. (
61/408,820		11/1/2010
13/287,058		11/1/2011
14448399		7/31/2014
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	MESSAGING AND SOCIAL NETWORKING	
US12/24882	SERVICES	2/13/2012
	AUTOMATIC PROVISIONING OF INSTANT	
	MESSAGING AND SOCIAL NETWORKING	
13/372,145	SERVICES	2/13/2012
	RADIO-AWARENESS OF MOBILE DEVICE FOR	
	SENDING SERVER-SIDE CONTROL SIGNALS	
	USING A WIRELESS NETWORK OPTIMIZED	
US12/68612	TRANSPORT PROTOCOL	12/7/2012
	RADIO-AWARENESS OF MOBILE DEVICE FOR	
	SENDING SERVER-SIDE CONTROL SIGNALS	
	USING A WIRELESS NETWORK OPTIMIZED	
13/708,758	TRANSPORT PROTOCOL	12/7/2012
1	RADIO-AWARENESS OF MOBILE DEVICE FOR	
	SENDING SERVER-SIDE CONTROL SIGNALS	
i		
	USING A WIRELESS NETWORK OPTIMIZED	1
13/787.702	USING A WIRELESS NETWORK OPTIMIZED TRANSPORT PROTOCOL	3/6/2013
13/787,702	TRANSPORT PROTOCOL	3/6/2013
13/787,702		3/6/2013
	US12/24882 13/372,145	MOBILE DEVICE RADIO USE OPTIMIZATION BY BATCHING LOW PRIORITY REQUESTS MOBILE NETWORK TRAFFIC COORDINATION ACROSS MULTIPLE APPLICATIONS DISTRIBUTED IMPLEMENTATION OF DYNAMIC WIRELESS TRAFFIC POLICY MOBILE TRAFFIC CATEGORIZATION AND POLICY FOR NETWORK USE OPTIMIZATION WHILE PRESERVING USER EXPERIENCE MOBILE TRAFFIC CATEGORIZATION AND POLICY FOR NETWORK USE OPTIMIZATION WHILE PRESERVING USER EXPERIENCE MOBILE TRAFFIC CATEGORIZATION AND POLICY FOR NETWORK USE OPTIMIZATION WHILE PRESERVING USER EXPERIENCE MOBILE TRAFFIC CATEGORIZATION AND POLICY FOR NETWORK USE OPTIMIZATION WHILE PRESERVING USER EXPERIENCE MOBILE TRAFFIC CATEGORIZATION AND POLICY FOR NETWORK USE OPTIMIZATION WHILE PRESERVING USER EXPERIENCE AUTOMATIC PROVISIONING OF INSTANT MESSAGING AND SOCIAL NETWORKING US12/24882 SERVICES AUTOMATIC PROVISIONING OF INSTANT MESSAGING AND SOCIAL NETWORKING SERVICES RADIO-AWARENESS OF MOBILE DEVICE FOR SENDING SERVER-SIDE CONTROL SIGNALS USING A WIRELESS NETWORK OPTIMIZED TRANSPORT PROTOCOL RADIO-AWARENESS OF MOBILE DEVICE FOR SENDING SERVER-SIDE CONTROL SIGNALS USING A WIRELESS NETWORK OPTIMIZED TRANSPORT PROTOCOL RADIO-AWARENESS OF MOBILE DEVICE FOR SENDING SERVER-SIDE CONTROL SIGNALS USING A WIRELESS NETWORK OPTIMIZED TRANSPORT PROTOCOL RADIO-AWARENESS OF MOBILE DEVICE FOR SENDING SERVER-SIDE CONTROL SIGNALS USING A WIRELESS NETWORK OPTIMIZED TRANSPORT PROTOCOL RADIO-AWARENESS OF MOBILE DEVICE FOR SENDING SERVER-SIDE CONTROL SIGNALS USING A WIRELESS NETWORK OPTIMIZED TRANSPORT PROTOCOL RADIO-AWARENESS OF MOBILE DEVICE FOR SENDING SERVER-SIDE CONTROL SIGNALS USING A WIRELESS NETWORK OPTIMIZED TRANSPORT PROTOCOL

		OPTIMIZATION SYSTEM	
		MOBILE NETWORK REPORTING AND USAGE	
		ANALYTICS SYSTEM AND METHOD	
		AGGREGATED USING A DISTRIBUTED TRAFFIC	
455/148/1 US	13/710,274	OPTIMIZATION SYSTEM	12/10/2012
		SYSTEM AND METHOD FOR GENERATING A	
		REPORT TO A NETWORK OPERATOR BY	
455/148/2 US	13/710,336	DISTRIBUTING AGGREGATION OF DATA	12/10/2012
		MANAGEMENT OF MOBILE DEVICE RADIO	-
455/152/1 UTIL	13/844,682	STATE PROMOTION AND DEMOTION	3/15/2013
		SYSTEMS AND METHODS FOR APPLICATION	
		MANAGEMENT OF MOBILE DEVICE RADIO	
455/152/2 UTIL	13/844,675	STATE PROMOTION AND DEMOTION	3/15/2013
		OPTIMIZED AND SELECTIVE MANAGEMENT OF	
		POLICY DEPLOYMENT TO MOBILE CLIENTS IN A	
		CONGESTED NETWORK TO PREVENT FURTHER	4 4 5 6 6 6
455/153/1 UTIL	13/837,308	AGGRAVATION OF NETWORK CONGESTION	3/15/2013
		IRREGULAR POLLING PATTERN RECOGNITION	
		AND CACHING IN DISTRIBUTED CACHING	
		SYSTEMS WITH CONFIGURABLE EXTENDED	
455/160 PROV	61/859,364	CACHING OPTIMIZATION	7/29/2013
455/161 PCT	PCT/US2014/12828	Application or context aware fast dormancy	1/23/2014
455/161/1 UTIL	13/815,908	Application or context aware fast dormancy	3/15/2013
		Mobile device with application or context	
455/161/2 UTIL	13/815,921	aware fast dormancy	3/15/2013
		SIGNALING OPTIMIZATION IN A WIRELESS	
		NETWORK FOR TRAFFIC UTILIZING	
		PROPRIETARY AND NON-PROPRIETARY	
455/162/1 UTIL	13/844,726	PROTOCOLS	3/15/2013
		SERVING CACHED RESPONSES TO	
		APPLICATIONS BASED ON CATEGORIZATION OF	
		THE SAME IN DISTRIBUTED CACHING SYSTEMS	
		WITH CONFIGURABLE EXTENDED CACHING	
455/166 PROV	61/860,331	OPTIMIZATION	7/31/2013
		DELAYING LONG POLL RESPONSES IN	
		DISTRIBUTED CACHING SYSTEMS WITH	
		CONFIGURABLE EXTENDED CACHING	
455/167 PROV	61/861,933	OPTIMIZATION	8/2/2013
		APPLICATION AND/OR SERVER STABILITY IN	
		SIGNALING OPTIMIZATION IN A WIRELESS	
		NETWORK FOR TRAFFIC UTILIZING	
		PROPRIETARY AND NON-PROPRIETARY	
455/169 PRO	61/833,796	PROTOCOLS	6/11/2013

		APPLICATION AND/OR SERVER STABILITY IN	
		SIGNALING OPTIMIZATION IN A WIRELESS	
		NETWORK FOR TRAFFIC UTILIZING	
455/169/1 PCT	PCT/US14/42017	PROPRIETARY AND NON-PROPRIETARY PROTOCOLS	6/11/2014
453/103/1701	PC1/0314/42017	APPLICATION AND/OR SERVER STABILITY IN	0/11/2014
		SIGNALING OPTIMIZATION IN A WIRELESS	
		NETWORK FOR TRAFFIC UTILIZING	
455/169/2		PROPRIETARY AND NON-PROPRIETARY	-
PCT/CON	14/474,231	PROTOCOLS	9/1/2014
10170011	121/111/202	Optimizing Keep Alive and Other Background	
455/170 PCT	PCT/US14/36669	Traffic in a Wireless Network	5/2/2014
700, 270 1 41		IDENTIFICATION AND REPORTING OF KEEP-	
		ALIVE MESSAGES AND OTHER NON-USER	
455/173 PCT	PCT/US14/36262	INTERACTIVE TRAFFIC IN A MOBILE NETWORK	4/30/2014
		DETECTION AND REPORTING OF KEEPALIVE	
		MESSAGES FOR OPTIMIZATION OF KEEPALIVE	4 8 8 8 8 8 8
455/173/3 YRUK	14/266,759	TRAFFIC IN A MOBILE NETWORK	4/30/2014
		IDENTIFICATION AND REPORTING OF KEEP-	
		ALIVE MESSAGES AND OTHER NON-USER	
455/173/2 PRO	61/836,039	INTERACTIVE TRAFFIC IN A MOBILE NETWORK	6/17/2013
		OPTIMIZING TRAFFIC BY CONTROLLING KEEP-	
455/174 PCT	PCT/US14/40575	ALIVES	6/2/2014
		MODIFYING SYSTEM TIMERS FOR OPTIMIZING	
455/175 PRO	61/857,152	MOBILE TRAFFIC MANAGEMENT	7/22/2013
		MODIFYING SYSTEM TIMERS FOR OPTIMIZING	
455/175/1UTIL	14/147,434	MOBILE TRAFFIC MANAGEMENT	1/3/2014
		EXTENDING DELAY TOLERANCE OF MOBILE	
		APPLICATIONS FOR OPTIMIZING MOBILE	. (2. (2. 2
455/175/2 UTIL	14/147,468	TRAFFIC MANAGEMENT	1/3/2014
		MODIFYING SYSTEM TIMERS FOR OPTIMIZING	o low look s
455/175/3 UTIL	14/467,951	MOBILE TRAFFIC MANAGEMENT	8/25/2014
		MODIFYING SYSTEM TIMERS FOR OPTIMIZING	0/05/0014
455/175/4 UTIL	14/468,032	MOBILE TRAFFIC MANAGEMENT	8/25/2014
		Policy Management for Signaling Optimization	
AFFIATO IA DDOU	C4 (0A4 A33	in a Wireless Network for Traffic Utilizing Proprietary and Non-Proprietary Protocols	2/18/2014
455/179/1 PROV	61/941,423	MODELING NETWORK SIGNALING IN A MOBILE	2/10/2014
455/182/1 PCT	PCT/US14/40766	NETWORK	6/3/2014
455/162/1701	FC1/0314/40700	MODELING NETWORK SIGNALING IN A MOBILE	0/3/2014
455/182/1US	14/295,289	NETWORK	6/3/2014
733/102/103	177 200,200	Enhanced Caching of Domain Name System	0,0,2017
		(DNS) and Reverse DNS Queries for Traffic	
		Management for Signaling Optimization in a	in the second se
455/183 PCT	PCT/US14/52697	Mobile Network	8/26/2014
,		Enhanced Caching of Domain Name System	, , , ,
455/183 PROV	61/870,210	(DNS) and Reverse DNS Queries for Traffic	8/26/2013
400/ TOO LUGA	01/0/0,210	(Disa) and neverse and equence for traine	0/20/2023

		Management for Signaling Optimization in a Mobile Network	
455/183/2	14/469,539	Enhanced Caching of Domain Name System (DNS) and Reverse DNS Queries for Traffic Management for Signaling Optimization in a Mobile Network	8/26/2014
455/184/2 PCT	PCT/US14/46522	Transport Protocol Layer of Optimization for Managing Signaling and Power Consumption	7/14/2014
455/186 PROV	61/905,120	OPTIMIZATION OF SIGNALING CAUSED BY SESSION CLOSURES	11/15/2013
455/188 PROV	61/930,344	Method For Power Saving in Mobile Devices	1/22/2014
455/190 PROV	62/022,614	SECURE HANDLING OF SSL TRAFFIC	7/9/2014

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.

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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 _____ day of _______, 2014.

Ari Backholm

PATENT REEL: 034130 FRAME: 0272

RECORDED: 11/07/2014