504118361 12/01/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4165031

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
VERIZON SERVICES CORP.	08/01/2009

RECEIVING PARTY DATA

Name:	VERIZON PATENT AND LICENSING INC.	
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City:	BASKING RIDGE	
State/Country:	NEW JERSEY	
Postal Code:	07920	

PROPERTY NUMBERS Total: 1

Property Type	Number
Patent Number:	8695028

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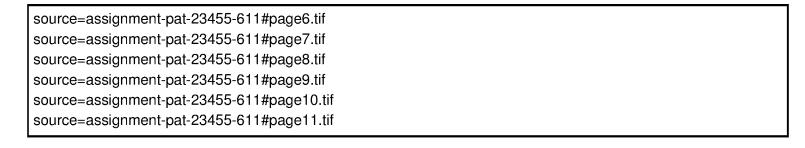
ATTORNEY DOCKET NUMBER:	20060217C1
NAME OF SUBMITTER:	JOSEPH R. PALMIERI
SIGNATURE:	/JOSEPH R. PALMIERI, REG. NO. 40,760/
DATE SIGNED:	12/01/2016

Total Attachments: 11

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<u>ASSIGNMENT</u>

This ASSIGNMENT is effective as of August 1, 2009 between Verizon Services Corp., a corporation existing under the laws of Delaware and having an office located at 1320 North Court House Road, Arlington, Virginia 22201 (hereinafter "ASSIGNOR"), and Verizon Patent and Licensing Inc., a corporation existing under the laws of Delaware and having an office located at One Verizon Way, Basking Ridge, NJ 07920 (hereinafter "ASSIGNEE").

WHEREAS, ASSIGNEE is desirous of acquiring ownership of the United States and/or foreign Letters Patent and Applications for Letters Patent identified in Schedule A, as well as any legal equivalents and counterparts thereof in all countries or jurisdictions worldwide (whether listed on Schedule A or not), and the inventions disclosed therein (all hereinafter referred to as the "Patent Assets").

WHEREAS, ASSIGNOR is desirous of granting to ASSIGNEE its ownership of the aforesaid Patent Assets.

NOW, THEREFORE, in consideration of the premises and the mutual covenants set forth herein and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged by ASSIGNOR and ASSIGNEE, and subject to any rights and licenses under the Patent Assets granted to third parties on or before the effective date hereof, ASSIGNOR does hereby assign unto ASSIGNEE (a) all worldwide right, title and interest of ASSIGNOR in and to the Patent Assets (subject, however, to applicable patent laws in the respective countries or jurisdictions issuing such Patent Assets), the right to claim priority therefrom, and in and to all additional Letters Patent worldwide to be obtained from such Patent Assets and from any future applications, continuations, divisions, renewals, extensions, substitutes, reissues or reexaminations which claim priority therefrom, each and all to be held and enjoyed by ASSIGNEE, its successors and assigns, to the full end of the terms for which any such Letters Patent are granted, plus any extensions, as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had this assignment not been made; and (b) all claims for past and future infringements of said Patent Assets, with the right to sue for and obtain all remedies for such infringements (including past and future damages and equitable relief) for its own use and enjoyment, and for the use and enjoyment of its successors, assigns or other legal representatives.

ASSIGNOR authorizes and requests the United States Commissioner of Patents and Trademarks (or similar official) to issue any and all United States Letters Patent resulting from the Patent Assets or any divisions, reissues, continuations, renewals, extensions, substitutes or re-examinations thereof to ASSIGNEE as assignee of ASSIGNOR's interest therein.

Verizon Services Corp.

By:

Name:

Joseph R. Palmieri

Title:

Assistant Secretary

SCHEDULE A

VZ Docket	Country	Appl Number		at. กber Application Title
06-1504	US	11562029	21-Nov-2006	Testing and Evaluating the Status of a Network Node
06-1505	US	11588980	27-Oct-2006	Policing virtual connections
20060217	US	11610833	14-Dec-2006	Parental Controls in a Media Network
20060230	us	11554723	31-Oct-2006	Method and System for Service Provider Awareness
20060233	US	11753788	25-May-2007	Expanded Media Content Access Systems and Methods
20060240	us	11617244	28-Dec-2006	DWDM Optical Network Planning Method
20060241	US	11617257	28-Dec-2006	Method and System for Determining a Network Topology

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20060251	US	11557740	08-Nov-2006	Prevention of Denial of Service (DoS) Attacks on Session Initiation Protocol (SIP)-Based Systems Using Return Routability Check Filtering
20060292	US	11620158	05-Jan-2007	System for Testing Set-Top Boxes and Content Distribution Networks and Associated Methods
		:		
20060294	us	11567541	06-Dec-2006	Content Storage and Delivery System and Associated Method and Device
İ				
20060300	US	11557739	08-Nov-2006	Prevention of Denial of Service (DoS) Attacks on Session Initiation Protocol (SIP)-Based Systems Using Method
20000300	100	11007739	UO-INUV-ZUUD	Vulnerability Filtering

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20060301	US	11620176	05-Jan-2007	Apparatus for Remotely Controlling Set- Top Boxes and an Associated Method and Computer Program Product
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		!	:	System and Method of Performance
				Monitoring of Multicast Services With
20060303	US	11694246	30-Mar-2007	Mobility Support
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			1	Apparatus and Method of Data
20060304	US	11553967	27-Oct-2006	Dependent Routing for Data Storage
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		{ :		Mothed Conjuntor Program Product
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20060307	US	11614154	21-Dec-2006	Automated Provisioning
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20060307	. wo	PCT/US07/88022	19-Dec-2007	Automated Provisioning

20060307	CN	TBA (nat'l phase of PCT/US07/88022)	19-Dec-2007	Method, Computer Program Product, and Apparatus for Providing Passive Automated Provisioning
20060310	US	11543472	05-Oct-2006	System and Method for Obtaining Optical Signal Information
20060310	WO	PCT/US07/21410	05-Oct-2007	System and Method for Obtaining Optical Signal Information
	:			Set Top Box Apparatus Having a Radio
20060312	US	11614855	21-Dec-2006	Frequency Antenna and an Associated Method
20060317	US	11619480	03-Jan-2007 7486860	Multi-Dwelling Unit Optical Fiber Splitting Unit
20060318	EP	07869207.6	13-Dec-2007	Congestion Avoidance for Link Capacity Adjustment Scheme (LCAS)
20060318	US	11612985	19-Dec-2006	Congestion Avoidance for Link Capacity Adjustment Scheme (LCAS)

20060318	WO	PCT/US07/87371	13-Dec-2007	Congestion Avoidance for Link Capacity Adjustment Scheme (LCAS)
_20060318	CN	PCT/US07/87371	13-Dec-2007	Congestion Avoidance for Link Capacity Adjustment Scheme (LCAS)
20060325	US	11896417	31-Aug-2007	Methods and systems for implementing a universal set top box
20060334	US	11694879	30-Mar-2007	Method and System for Notifying an Invitee User When an Inviting User Accesses a Social Networking Application
20060350	US	11771443	29-Jun-2007	System and Method for Providing an Interactive ProgramGuide for Past, Current, and Future Programming
20060351	EP	07855312.0	21-Dec-2007	Multifunctional Control Channel for Pseudowire Emulation
20060351	US	11689537	22-Mar-2007	Multifunctional Control Channel for Pseudowire Emulation

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20060351	WO	PCT/US07/88535	21-Dec-2007	Multifunctional Control Channel for Pseudowire Emulation
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	!	TBA (nat'l phase	: 	Multifure after all Operation Observed for
20060351	CN	of PCT/US07/88535)	21-Dec-2007	Multifunctional Control Channel for Pseudowire Emulation
20060352	US	11689538	22-Mar-2007	Dynamic Configuration of Pseudowire Emulation Control Channel Types
20060352	wo	PCT/US07/88536	21-Dec-2007	Dynamic Configuration of Pseudowire Emulation Control Channel Types
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	ž	TBA (nat'l phase of	:	Dynamic Configuration of Pseudowire
20060352	CN	PCT/US07/88536)	21-Dec-2007	Emulation Control Channel Types
00000050	:	14000540	22 May 2007	Performance Monitoring of Pseudowire
20060353	US	11689540	22-Mar-2007	Emulation
20060353	WO	PCT/US07/88531	21-Dec-2007	Performance Monitoring of Pseudowire Emulation
		TBA (nat'l phase		
20060353	CN	of PCT/US07/88531)	21-Dec-2007	Performance Monitoring of Pseudowire Emulation
20060386	US	11692301	28-Mar-2007	Calling Party Name Provisioning
VZ06002	US	11481993	06-Jul-2006	Switchable fiber termination
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VZ06011	US	11538856	05-Oct-2006	Short Message Service (SMS) Data Transfer
VZ06015	EP	07861413.8	16-Oct-2007	Method, Computer Program Product, and Device for Network Reconnaissance Flow Identification
VZ06015	US	11551453	20-Oct-2006	Method, Computer Program Product, and Device for Network Reconnaissance Flow Identification
				Method, Computer Program Product, and Device for Network Reconnaissance
VZ06015 VZ06017	WO	PCT/US07/22013	16-Oct-2007 27-Mar-2007	Flow Identification Automated Network Testing
VZ06032	US	11616608	27-Dec-2006	Self-Service Circuit Testing Systems and Methods
				Systems And Methods For Managing
VZ06040	US	11551404	20-Oct-2006	And Monitoring Mobile Data, Content, Access, And Usage

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VZ06040	WO	PCT/US07/21795	12-Oct-2007		Systems and Methods for Managing and Monitoring Mobile Data Content, Access and Usage
VZ06041	US	11557344	07-Nov-2006	7579547	Adjustable Interface Device
VZ06052	US	11612068	18-Dec-2006	:	Networked Media Recording
VZ06055	US	11609680	12-Dec-2006		Mounting Structure
VZ06061	US	11615397	22-Dec-2006		Method and System for a Secure Bi- Directional Line Switched Ring
VZ06062	US	11615076	22-Dec-2006		Method and System for a Portable Wireless Range
VZ06063	US	11615110	22-Dec-2006		Controlling a Test Load Throttle
VZ06070	US	11797388	03-May-2007		Communication line interface
VZ06071	US	11537196	29-Sep-2006		Secure and Reliable Policy Enforcement
VZ06096	US	11611424	15-Dec-2006		Interactive Communication Session Director
VZ06096	CN	PCT/US07/87201	12-Dec-2007		Interactive Communication Session Director
VZ06096	WO	PCT/US07/87201	12-Dec-2007 Page 10		Interactive Communication Session Director

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VZ06099	US	11615444	22-Dec-2006	System for Intercepting Signals to be Transmitted Over a Fiber Optic Network and Associated Method
VZ06102	US	11615508	22-Dec-2006	Method and System of Providing an Integrated Set Top Box

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RECORDED: 12/01/2016