

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT6777534

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
VERIZON SERVICES ORGANIZATION INC.	08/01/2009
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<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Patent Number:</b>	8447019
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<b>Fax Number:</b>	
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<b>SIGNATURE:</b>	/Joseph R. Palmieri, Reg. No. 40,760/
<b>DATE SIGNED:</b>	06/23/2021
<b>Total Attachments: 10</b>	
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source=Recordable-Assignment-VSO-to-VPLI\_8-1-09#page10.tif

ASSIGNMENT

This ASSIGNMENT is effective as of August 1, 2009 between Verizon Services Organization Inc., a corporation existing under the laws of Delaware and having an office located at 600 Hidden Ridge, Irving, Texas 75038 (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").

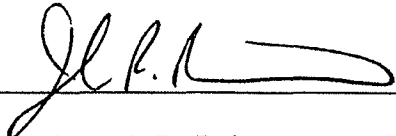
WHEREAS, ASSIGNEE is desirous of acquiring ownership of the United States and/or foreign Letters Patent and Applications for Letters Patent identified in Schedule A, as well as any legal equivalents and counterparts thereof in all countries or jurisdictions worldwide (whether listed on Schedule A or 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 re-examinations 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 Organization Inc.

By:   
Name: Joseph R. Palmieri  
Title: Assistant Secretary

**SCHEDULE A**

VZ Docket	Country	Appl. Number	File Date	Pat. Number	Application Title
06-1501	US	11614643	21-Dec-2006		Method, Computer Program Product, and Apparatus for Providing a Distributed Router Architecture
06-5001	US	11565959	01-Dec-2006		System And Method For Automation Of Information Or Data Classification For Implementation Of Controls
06-8001	US	11554800	31-Oct-2006		Priority Call Routing
20060150	US	11611582	15-Dec-2006		Automated Session Initiation Protocol (SIP) Device
20060152	US	11611529	15-Dec-2006		Automated Teletype (TTY) Testing
20060153	US	11611605	15-Dec-2006		Automated Audio Stream Testing
20060154	US	11611560	15-Dec-2006		Distributed Voice Quality Testing
20060185	US	11550094	17-Oct-2006		Disabled State and State Signaling for Link Aggregation

20060185	WO	PCT/US07/81488	16-Oct-2007	Disabled State and State Signaling for Link Aggregation
20060186	US	11550085	17-Oct-2006	Monitoring Link Aggregation Links
20060186	WO	PCT/US07/81472	16-Oct-2007	Monitoring Link Aggregation Links
20060193	US	11588065	25-Oct-2006	Methods and apparatus for content scrambling in a communications system
20060193	WO	PCT/US07/82576	25-Oct-2007	Methods and Apparatus for Content Scrambling in a Communications System
20060194	US	11603561	22-Nov-2006	Systems and methods for accessing media content using multiple user input devices
20060198	US	11622206	11-Jan-2007	Derived Presence-Aware Service From Associated Entities

20060211	US	11617992	29-Dec-2006	Assigning Priority to Network Traffic at Customer Premises
20060235	US	11611008	14-Dec-2006	Long Reach Optical Network
20060236	EP	07869203.5	13-Dec-2007	Hybrid Switch for Optical Networks
20060236	US	11610954	14-Dec-2006	Hybrid Switch for Optical Networks
20060236	WO	PCT/US07/87367	13-Dec-2007	Hybrid Switch for Optical Networks
20060236	CN	TBA (nat'l phase of PCT/US07/87367)	13-Dec-2007	Hybrid Switch for Optical Networks
20060242	US	11627028	25-Jan-2007	Network Routing
20060244	US	11747678	11-May-2007	Pseudowire Circuit Emulation
20060252	US	11534281	22-Sep-2006	Method and System for Providing Variable Dial Pattern Provisioning in a SIP-Based Network
20060253	US	11534273	22-Sep-2006	Method and System for Providing Distinctive Announcements in a SIP-Based Network
20060254	US	11534308	22-Sep-2006	Method and System for Providing Talking Call Waiting in a SIP-Based Network

20060255	US	11534426	22-Sep-2006	Method and System for Providing Call Waiting Features in a SIP-Based Network
20060256	US	11534353	22-Sep-2006	Method and System for Providing Call-Forwarding Status Indications in a Packet-Switched Network
20060257	US	11534399	22-Sep-2006	Method and System for Providing Forced Hold Behavior in a SIP-Based Network
20060258	US	11534385	22-Sep-2006	Method and System for Providing Bridged Line Service in a SIP-Based Network
20060259	US	11534227	22-Sep-2006	Method and System for Providing Voice Dialing Service in a SIP-Based Network
20060260	US	11534286	22-Sep-2006	Method and System for Providing Call Parking in a SIP-Based Network
20060261	US	11534230	22-Sep-2006	Method and System for Providing Call Screening in a Packet-Switched Network
20060262	US	11534474	22-Sep-2006	Method and System for Providing Party Line Emulation in a SIP-Based Network
20060269	US	11617996	29-Dec-2006	Automatic Detection and Establishment of Network Connection
20060270	US	11618096	29-Dec-2006	Method and System for Attribute Browsing of Video Assets
20060281	US	11677699	22-Feb-2007	Traffic Routing



Recordable Patent Assignment  
(VSO to VPLI)

20060281	WO	PCT/US08/54068	15-Feb-2008	Traffic Routing
20060281	CN	TBA (nat'l phase of PCT/US08/54068)	15-Feb-2008	Traffic Routing
20060281	EP	PCT/US08/54068	15-Feb-2008	Traffic Routing
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
20060316	US	11612218	18-Dec-2006	Optical Signal Measurement Device
20060319	US	11692576	28-Mar-2007	Calling Party Number Override for Emergency Services
20060321	US	11616084	26-Dec-2006	Traffic Fencing Mechanism for Control Plane Enabled Networks

Recordable Patent Assignment  
(VSO to VPLI)

20060336	US	11689805	22-Mar-2007	7,474,829	Assemblies & Methods for Drop Cable
20060347	US	11694259	30-Mar-2007		Content Storage and Delivery Systems and Associated Methods
20060359	US	11953977	11-Dec-2007		Remote Management of Network Devices
20060365	US	11754676	29-May-2007		Service Broker
VZ06006	US	11488953	19-Jul-2006		Intercepting text strings
VZ06007	US	11612245	18-Dec-2006		Presence Based Telephony
VZ06009	US	11616634	27-Dec-2006		Dispatching Prioritized Jobs At Multiple Locations To Workers
VZ06017	US	11691757	27-Mar-2007		Automated Network Testing
VZ06022	US	11612251	18-Dec-2006		Content Processing Device Monitoring
VZ06045	EP	07854693.4	19-Nov-2007		Remote VoIP Phone

VZ06045	US	11605609	29-Nov-2006		Remote VoIP Phone
VZ06045	WO	PCT/US07/85060	19-Nov-2007		Remote VoIP Phone
VZ06046	US	11483459	10-Jul-2006		Re-directing video according to a standard protocol
VZ06053	EP	07855290.8	20-Dec-2007		Large Scale Quantum Cryptographic Key Distribution Network
VZ06053	US	11614711	21-Dec-2006	7,577,257	Large Scale Quantum Cryptographic Key Distribution Network
VZ06053	CN	TBA (nat' phase of PCT/US07/88341)	20-Dec-2007		Large Scale Quantum Cryptographic Key Distribution Network
VZ06053	WO	PCT/US07/88341	20-Dec-2007		Large Scale Quantum Cryptographic Key Distribution Network
VZ06054	US	11613251	20-Dec-2006		System and Method for Core Network Topology Router Placement Planning
VZ06057	US	11553425	26-Oct-2006	7,583,490	Static electricity dissipation device for vehicles
VZ06058	US	11605802	28-Nov-2006		System and method for viewing a TV program guide on a mobile device background
VZ06060	US	11606680	29-Nov-2006		Traffic evaluation system

VZ06064	US	11550015	17-Oct-2006	Link Aggregation
VZ06064	WO	PCT/US07/81486	16-Oct-2007	Link Aggregation
VZ06079	US	11615119	22-Dec-2006	Publication Service Using Web Pages and Web Search Engines
VZ06091	US	11617979	29-Dec-2006	Method and Apparatus for Providing Ringtone Scheduling
VZ06101	US	11567530	06-Dec-2006	Customized Media on Demand
VZ06101	CN	TBA (nat'l phase of PCT/US07/85619)	27-Nov-2007	Customized Media on Demand
VZ06101	WO	PCT/US07/85619	27-Nov-2007	Customized Media on Demand