

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT2847339

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT

**CONVEYING PARTY DATA**

Name	Execution Date
VERIZON COMMUNICATIONS INC.	04/09/2014

**RECEIVING PARTY DATA**

<b>Name:</b>	VERIZON PATENT AND LICENSING INC.
<b>Street Address:</b>	ONE VERIZON WAY
<b>City:</b>	BASKING RIDGE
<b>State/Country:</b>	NEW JERSEY
<b>Postal Code:</b>	07920

**PROPERTY NUMBERS Total: 74**

Property Type	Number
Application Number:	08990210
Application Number:	09917803
Application Number:	10158583
Application Number:	10158586
Application Number:	07158325
Application Number:	08250791
Application Number:	08250792
Application Number:	08740519
Application Number:	08933485
Application Number:	08963944
Application Number:	09075094
Application Number:	09635695
Application Number:	09652095
Application Number:	09652140
Application Number:	09652750
Application Number:	09652822
Application Number:	09688213
Application Number:	09731053
Application Number:	09731054
Application Number:	09745467
Application Number:	09834573

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Property Type	Number
Application Number:	09835649
Application Number:	09910429
Application Number:	11003963
Application Number:	11247159
Application Number:	11312347
Application Number:	11612935
Application Number:	11942052
Application Number:	12347396
Application Number:	12390196
Application Number:	12884935
Application Number:	13332890
Application Number:	08304174
Application Number:	08380755
Application Number:	08498265
Application Number:	08677294
Application Number:	08679384
Application Number:	08980235
Application Number:	09283400
Application Number:	11069301
Application Number:	11744400
Application Number:	12715217
Application Number:	08811714
Application Number:	08812075
Application Number:	08815075
Application Number:	08815291
Application Number:	08815367
Application Number:	08931159
Application Number:	08931267
Application Number:	08931268
Application Number:	08931477
Application Number:	08931480
Application Number:	08998274
Application Number:	09014286
Application Number:	09362554
Application Number:	09363750
Application Number:	09512471
Application Number:	09750771
Application Number:	10353360
Application Number:	10979317

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Property Type	Number
Application Number:	11930672
Application Number:	11930928
Application Number:	11930990
Application Number:	11931049
Application Number:	11931111
Application Number:	08499013
Application Number:	08806090
Application Number:	08977665
Application Number:	08533501
Application Number:	08651297
Application Number:	08656879
Application Number:	08656880
Application Number:	08725653
Application Number:	09007364

**CORRESPONDENCE DATA**

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**NAME OF SUBMITTER:** JOSEPH R. PALMIERI

**SIGNATURE:** /joseph.r.palmieri/

**DATE SIGNED:** 05/08/2014

**Total Attachments: 6**

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## ASSIGNMENT

This ASSIGNMENT is effective as of April 9, 2014 between Verizon Communications Inc., a corporation existing under the laws of Delaware and having an office located at 140 West Street, New York, NY 10007 (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").

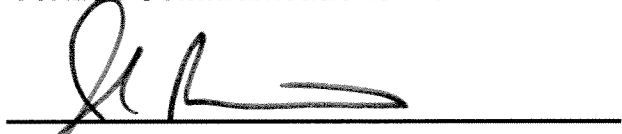
WHEREAS, ASSIGNEE is desirous of acquiring ownership of the United States and/or foreign Letters Patent and Applications for Letters Patent identified in Schedule A, as well as any legal equivalents and counterparts thereof in all countries or jurisdictions worldwide (whether listed on Schedule A or 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. ASSIGNOR further appoints ASSIGNEE as ASSIGNOR's attorney-in-fact (such appointment being irrevocable and coupled with the interest in the Patent Assets), with full authority in the place and stead of ASSIGNOR and in the name of ASSIGNOR from time to time to take any action and to execute any document which ASSIGNEE may deem reasonably necessary or advisable to accomplish the purposes of this ASSIGNMENT, including the execution and filing of confirmatory assignments, powers of attorney, declarations of transfer, or other documents relative to any of the Patent Assets in the name of ASSIGNOR where permitted by law.


**ASSIGNOR**  
Verizon Communications Inc.



Name: Joseph Palmieri

Title: Assistant Secretary

**ASSIGNEE**  
Verizon Patent and Licensing Inc.



Name: Joseph Palmieri

Title: Vice President

**SCHEDULE A**

VZ ref	COUNTRY	APPLICATION NO	FILING DATE	PATENTNO	TITLE
VE73021009	US	12-Dec-97	08990210	6367078	Electronic program-guide system with sideways-surfing capability
VE50107481	US	31-Jul-01	09917803	6590965	Enhanced voice mail caller ID
VE50107491	US	31-May-02	10158583	6898276	Soft network interface device for digital broadband local carrier networks
VE0795	US	31-May-02	10158586	6961335	Multi-layer ring architecture for fiber-to-the-home telco carrier network
VE1601	US	19-Feb-88	07158325	4861287	Telephone network multiple transmission line interface
VE0727	US	27-May-94	08250791	5635979	Dynamically programmable digital entertainment terminal using downloaded software to control broadband data operations
VE0719	US	27-May-94	08250792	5608447	Full service network
VE0719A	US	30-Oct-96	08740519	5818511	Full service network
VE2209A	US	06-Mar-97	08811714	6205139	Automatic called party locator over internet
VE2209	US	06-Mar-97	08812075	6104711	Enhanced internet domain name server
VE2214A	US	11-Mar-97	08815075	6721306	Public wireless/cordless internet gateway
VE2214	US	11-Mar-97	08815291	6542497	Public wireless/cordless internet gateway
VE2209B	US	11-Mar-97	08815367	6215790	Automatic called party locator over internet with provisioning
VE2233	US	16-Sep-97	08931159	6137869	Network session management
VE2233D	US	16-Sep-97	08931267	6292481	Inter-carrier signaling and usage accounting architecture for internet telephony
VE2233B	US	16-Sep-97	08931268	6157636	Network session management with gateway-directory services and authorization control
VE2233C	US	16-Sep-97	08931477	6157648	Network session management
VE2233A	US	16-Sep-97	08931480	6839340	Network session management
VE2023	US	18-Sep-97	08933485	6438212	Automated telephone line test apparatus with intelligent diagnostic function
VE73021016	US	04-Nov-97	08963944	7561214	Two-dimensional navigation of multiplexed channels in a digital video distribution system
VE2235	US	24-Dec-97	08998274	6295292	Inbound gateway authorization processing for inter-carrier internet telephony
VE2235A	US	27-Jan-98	09014286	6289010	Inbound gateway authorization processing for inter-carrier internet telephony
VE1727	US	08-May-98	09075094	6157716	Power feed circuit providing both on-hook and off-hook power for telephone subscriber loop
VE2233E	US	28-Jul-99	09362554	6430275	Enhanced signaling for terminating resource
VE2214B	US	30-Jul-99	09363750	6359880	Public wireless/cordless internet gateway
VE2209C	US	24-Feb-00	09512471	6282574	Method, server and telecommunications system for name translation on a conditional basis and/or to a telephone number

VE1515	US	10-Aug-00	09635695	6904054	Support for quality of service and vertical services in digital subscriber line domain
VE2326	US	31-Aug-00	09652095	6993026	Methods, apparatus and data structures for preserving address and service level information in a virtual private network
VE1516	US	31-Aug-00	09652140	6778525	Automated service provisioning in combination of vertical services and digital subscriber line domains
VE2325	US	31-Aug-00	09652750	6850495	Methods, apparatus and data structures for segmenting customers using at least a portion of a layer 2 address header or bits in the place of a layer 2 address header
VE2324	US	31-Aug-00	09652822	6771673	Methods and apparatus and data structures for providing access to an edge router of a network
VE1517	US	16-Oct-00	09688213	7042880	Congestion and throughput visibility and isolation
VE1355	US	07-Dec-00	09731053	6829250	Automatic programming of customer premises equipment for vertical services integration
VE1354	US	07-Dec-00	09731054	6798751	Customer premises equipment for vertical services integration
VE1518	US	26-Dec-00	09745467	6424657	Traffic queueing for remote terminal DSLAMs
VE2209ACON	US	02-Jan-01	09750771	6539015	Automatic called party locator over internet
VE2327	US	12-Apr-01	09834573	7315554	Simple peering in a transport network employing novel edge devices
VE2435	US	17-Apr-01	09835649	7170905	Vertical services integration enabled content distribution mechanisms
VE2328	US	20-Jul-01	09910429	8087064	SECURITY EXTENSION USING AT LEAST A PORTION OF LAYER 2 INFORMATION OR BITS IN THE PLACE OF LAYER 2 INFORMATION
VE2214DIV1	US	29-Jan-03	10353360	7088705	Public wireless/cordless internet gateway
VE2233ACON1	US	02-Nov-04	10979317	7948968	Network session management
VE2325CON1	US	03-Dec-04	11003963	7839802	Methods, apparatus and data structures for segmenting customers using at least a portion of a layer 2 address header or bits in the place of a layer 2 address header
VE2326CON1	US	12-Oct-05	11247159		Methods, apparatus and data structures for preserving address and service level information in a virtual private network
VE1517D1	US	21-Dec-05	11312347	7801158	Congestion and thru-put visibility and isolation
VE2435C1	US	19-Dec-06	11612935		Vertical Services Integration Enabled Content Distribution Mechanism
VE2233AC2	US	31-Oct-07	11930672		Network Session Management
VE2233AC3	US	31-Oct-07	11930928		Network Session Management
VE2233AC4	US	31-Oct-07	11930990		Network Session Management
VE2233AC5	US	31-Oct-07	11931049		Network Session Management
VE2233AC6	US	31-Oct-07	11931111		Network Session Management

VE2327C1	US	19-Nov-07	11942052		SIMPLE PEERING IN A TRANSPORT NETWORK EMPLOYING NOVEL EDGE DEVICES
VE2325CON2	US	31-Dec-08	12347396	8264987	Methods, Apparatus and Data Structures for Segmenting Customers Using at Least a Portion of a Layer 2 Address Header or Bits in the Place of a Layer 2 Address Header
VE2326CON2	US	20-Feb-09	12390196	8243627	Methods, Apparatus and Data Structures for Preserving Address and Service Level Information in a Virtual Private Network
VE1517C1	US	17-Sep-10	12884935		Congestion and Thru-Put Visibility and Isolation
VE2328C1	US	21-Dec-11	13332890		SECURITY EXTENSIONS USING AT LEAST A PORTION OF LAYER 2 INFORMATION OR BITS IN THE PLACE OF LAYER 2 INFORMATION
VE0790	US	06-Jul-95	08499013	5826166	Digital entertainment terminal providing dynamic execution in video dial tone networks
VE1506	US	25-Feb-97	08806090	6055077	Multimedia distribution system using fiber optic lines
VE0790A	US	24-Nov-97	08977665	5973684	Digital entertainment terminal providing dynamic execution in video dial tone networks
VE0731	US	12-Sep-94	08304174	5682325	Level 1 gateway for video tone networks
VE0727C	US	31-Jan-95	08380755	5734589	Digital entertainment terminal with channel mapping
VE0727D	US	03-Jul-95	08498265	5666293	Downloading operating system software through a broadcast channel
VE0778	US	25-Sep-95	08533501	5790543	Apparatus and method for correcting jitter in data packets
VE0778B	US	22-May-96	08651297	5966387	Apparatus and method for correcting jitter in data packets
VE0774B	US	30-May-96	08656879	5880864	Advanced optical fiber communications network
VE0774	US	30-May-96	08656880	5808767	Fiber optic network with wavelength-division-multiplexed transmission to customer premises
VE0731D	US	09-Jul-96	08677294	5748493	Level 1 Gateway for video dial tone networks
VE0731C	US	09-Jul-96	08679384	5917537	Level 1 gateway for video dial tone networks
VE0778C	US	01-Oct-96	08725653	5805602	Network monitoring system for cell delay variation
VE0727G	US	28-Nov-97	08980235	5978855	Downloading applications software through a broadcast channel
VE0774A	US	15-Jan-98	09007364	5864415	Fiber optic network with wavelength-division-multiplexed transmission to customer premises
VE07114	US	01-Apr-99	09283400	6538781	Multimedia distribution system using fiber optic lines
VE07114CON1	US	01-Mar-05	11069301	7224896	Methods and apparatus for generating local oscillation signals
VE07114D1	US	04-May-07	11744400	7684707	Methods and apparatus for generating local oscillation signals



VE07114C2	US	01-Mar-10	12715217	8078056	MULTIMEDIA DISTRIBUTION SYSTEM USING FIBER OPTIC LINES
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