

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Level 3 Communications, LLC	07/12/2010
Verizon Corporate Services Group Inc.	07/12/2010

RECEIVING PARTY DATA

Name:	Verizon Patent and Licensing Inc.
Street Address:	One Verizon Way
City:	Basking Ridge
State/Country:	NEW JERSEY
Postal Code:	07920

PROPERTY NUMBERS Total: 27

Property Type	Number
Patent Number:	7099281
Patent Number:	7376132
Patent Number:	4919545
Patent Number:	5268931
Patent Number:	6496704
Patent Number:	6311182
Patent Number:	6618726
Patent Number:	6457043
Patent Number:	7116656
Patent Number:	7693137
Patent Number:	6292539
Patent Number:	6493425
Patent Number:	6445712
Patent Number:	6456838

501244100

PATENT
REEL: 024741 FRAME: 0340

CH \$1080.00 7099281

Patent Number:	6493431
Patent Number:	6493437
Patent Number:	6510464
Patent Number:	6324648
Application Number:	09426442
Patent Number:	6567858
Patent Number:	7143152
Application Number:	11588392
Application Number:	11758835
Patent Number:	6925399
Application Number:	09597492
Patent Number:	7027997
Patent Number:	6831945

CORRESPONDENCE DATA

Fax Number: (908)766-8264

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Email: joseph.r.palmieri@verizon.com

Correspondent Name: Joseph R. Palmieri

Address Line 1: One Verizon Way

Address Line 2: Room 54N074

Address Line 4: Basking Ridge, NEW JERSEY 07920

ATTORNEY DOCKET NUMBER:

VPLI

NAME OF SUBMITTER:

Joseph R. Palmieri

Total Attachments: 7

source=Assignment - LVL3andVCSGtoVPLI#page1.tif

source=Assignment - LVL3andVCSGtoVPLI#page2.tif

source=Assignment - LVL3andVCSGtoVPLI#page3.tif

source=Assignment - LVL3andVCSGtoVPLI#page4.tif

source=Assignment - LVL3andVCSGtoVPLI#page5.tif

source=Assignment - LVL3andVCSGtoVPLI#page6.tif

source=Assignment - LVL3andVCSGtoVPLI#page7.tif

ASSIGNMENT

This ASSIGNMENT is effective as of July 12, 2010, between Level 3 Communications, LLC, a limited liability company existing under the laws of Delaware and having an office located at 1025 Eldorado Blvd., Broomfield, Colorado 80021 (hereinafter "LEVEL 3"), Verizon Corporate Services Group Inc., a corporation existing under the laws of New York and having an office located at One Verizon Way, Basking Ridge, NJ 07920 (hereinafter "VCSG"), 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 "VPLI").

WHEREAS, VPLI is desirous of acquiring sole ownership of the United States and/or foreign Letters Patent and Applications for Letters Patent identified in Schedule A-1 and Schedule A-2 (hereinafter referred to as the "Patent Assets").

WHEREAS, LEVEL 3 and VCSG are desirous of granting to VPLI their ownership interest in the aforesaid Patent Assets.

NOW, THEREFORE, in consideration of the premises and the mutual covenants set forth in that certain PATENT ASSIGNMENT AND LICENSE AGREEMENT executed on July 12, 2010, among LEVEL 3 and VPLI (hereinafter, "PALA"), and subject to any rights and licenses under the Patent Assets granted to third parties on or before the effective date hereof, LEVEL 3, its Affiliates (as defined in the PALA) and VCSG hereby assign unto VPLI (a) all worldwide right, title and interest of LEVEL 3, its Affiliates and VCSG 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 to a Patent Asset, each and all to be held and enjoyed by VPLI, 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 LEVEL 3, its Affiliates and VCSG had this assignment not been made; provided however, with respect only to the foreign letters patent and applications for letters patent identified in Schedule A-2, this assignment is strictly limited to the transfer of ownership rights (including any continuations, divisionals, renewals, extensions, substitutes, reissues or re-examinations thereof) in those countries to which the foreign letters patent and applications for letters patent identified in Schedule A-2 correspond; 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 VPLI's own use and enjoyment, and for the use and enjoyment of its successors, assigns or other legal representatives.

LEVEL 3, its Affiliates and VCSG authorize and request 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 VPLI as assignee of LEVEL 3's, its Affiliates' and VCSG's interest therein.

Verizon Corporate Services Group Inc.

By: 

Name: Joseph R. Palmieri

Title: Assistant Secretary

Level 3 Communications, LLC

By: 

Name: David D. Wier

Title: VP, Patent Counsel

Verizon Patent and Licensing Inc.

By: 

Name: Joseph R. Palmieri

Title: Vice President

SCHEDULE A-1

VZ Ref. No.	Ctry	Patent No./ Appl. No.	Title	Inventor(s)	Filing Date
00-3008	US	7,099,281	A PASSIVE SYSTEM AND METHOD FOR MEASURING THE SUBJECTIVE QUALITY OF REAL-TIME MEDIA STREAMS IN A PACKET-SWITCHING NETWORK	Conway, Adrian E.	30-Mar-2001
00-3008 CIP 1	US	7,376,132	PASSIVE SYSTEM AND METHOD FOR MEASURING AND MONITORING THE QUALITY OF SERVICE IN A COMMUNICATIONS NETWORK	Conway, Adrian E.	12-Aug-2003
88-3-429	US	4,919,545	DISTRIBUTED SECURITY PROCEDURE FOR INTELLIGENT NETWORKS	Yu, Che-Fn	22-Dec-1988
89-3-672	US	5,268,931	DATA COMMUNICATION SYSTEM	Andrade, Phillip L. :: Cooperman, Michael	29-Dec-1989
96-3-507 CPA 1	US	6,496,704	SYSTEMS AND METHODS FOR INTERNETWORKING DATA NETWORKS HAVING MOBILITY MANAGEMENT FUNCTIONS	Yuan, Ruixi	20-Mar-1997
97-418 CPA 1	US	6,311,182	VOICE ACTIVATED WEB BROWSER	Nguyen, Long :: Colbath, Sean C. :: Pham, Cecile :: Stallard, David G.	17-Nov-1997
97-418 CPA1CON1	US	6,618,726	VOICE ACTIVATED WEB BROWSER	Stallard, David G. :: Pham, Cecile :: Nguyen, Long :: Colbath, Sean C.	28-Aug-2001
97-809	US	6,457,043	SPEAKER IDENTIFIER FOR MULTI-PARTY CONFERENCE	Kelly, Barbara M. :: Gardell, Steven E. :: Kwak, William I.	23-Oct-1998
97-809 EP	EP	99953257	SPEAKER IDENTIFIER FOR MULTI-PARTY CONFERENCE	Kelly, Barbara M. :: Gardell, Steven E. :: Kwak, William I.	22-Oct-1999
97-809 IN	IN	IN/PCT/20 0100519/M UM	SPEAKER IDENTIFIER FOR MULTI-PARTY CONFERENCE	Kelly, Barbara M. :: Gardell, Steven E. :: Kwak, William I.	22-Oct-1999
97-809 IN DIV	IN	01064/MU MNP/05	SPEAKER IDENTIFIER FOR MULTI-PARTY CONFERENCE	Kelly, Barbara M. :: Gardell, Steven E. :: Kwak, William I.	30-Sep-2005
97-809 IS	IL	142744	SPEAKER IDENTIFIER FOR MULTI-PARTY CONFERENCE	Kelly, Barbara M. :: Gardell, Steven E. :: Kwak, William I.	22-Oct-1999
97-809 JA	JP	2000- 578738	SPEAKER IDENTIFIER FOR MULTI-PARTY CONFERENCE	Kelly, Barbara M. :: Gardell, Steven E. :: Kwak, William I.	22-Oct-1999
97-813	US	7,116,656	MULTI-LINE APPEARANCE TELEPHONY VIA A COMPUTER	Gardell, Steven E. :: Depp, Gregory C. ::	23-Oct-1998

			NETWORK	Zibman, Israel B.	
97-813 CON1	US	7,693,137	MULTI-LINE APPEARANCE TELEPHONY VIA A COMPUTER NETWORK	Depp, Gregory C. :: Gardell, Steven E. :: Zibman, Israel B.	05-Jun-2006
97-813 EP	EP	99971172	MULTI-LINE APPEARANCE TELEPHONY VIA A COMPUTER NETWORK	Gardell, Steven E. :: Depp, Gregory C. :: Zibman, Israel B.	22-Oct-1999
97-813 IN	IN	IN/PCT/20 0100515/M UM	MULTI-LINE APPEARANCE TELEPHONY VIA A COMPUTER NETWORK	Gardell, Steven E. :: Depp, Gregory C. :: Zibman, Israel B.	22-Oct-1999
97-813 IND1	IN	780/MUMN P/2005	MULTI-LINE APPEARANCE TELEPHONY VIA A COMPUTER NETWORK	Gardell, Steven E. :: Depp, Gregory C. :: Zibman, Israel B.	22-Oct-1999
97-813 IS	IL	142739	MULTI-LINE APPEARANCE TELEPHONY VIA A COMPUTER NETWORK	Gardell, Steven E. :: Depp, Gregory C. :: Zibman, Israel B.	22-Oct-1999
97-813 JA	JP	2000- 578944	MULTI-LINE APPEARANCE TELEPHONY VIA A COMPUTER NETWORK	Gardell, Steven E. :: Depp, Gregory C. :: Zibman, Israel B.	22-Oct-1999
97-822	US	6,292,539	METHOD AND APPARATUS FOR DIGITAL SUBSCRIBER LOOP QUALIFICATION	Eichen, Elliot :: Brooks, David L.	29-May-1998
97-822 AS	AT	1093609	METHOD AND APPARATUS FOR DIGITAL SUBSCRIBER LOOP QUALIFICATION	Eichen, Elliot :: Brooks, David L.	19-May-1999
97-822 CN	CA	2,333,518	METHOD AND APPARATUS FOR DIGITAL SUBSCRIBER LOOP QUALIFICATION	Eichen, Elliot :: Brooks, David L.	19-May-1999
97-822 EP	EP	1093609	METHOD AND APPARATUS FOR DIGITAL SUBSCRIBER LOOP QUALIFICATION	Eichen, Elliot :: Brooks, David L.	19-May-1999
97-822 FR	FR	1093609	METHOD AND APPARATUS FOR DIGITAL SUBSCRIBER LOOP QUALIFICATION	Eichen, Elliot :: Brooks, David L.	19-May-1999
97-822 GB	GB	1093609	METHOD AND APPARATUS FOR DIGITAL SUBSCRIBER LOOP QUALIFICATION	Eichen, Elliot :: Brooks, David L.	19-May-1999
97-822 GW	DE	1093609	METHOD AND APPARATUS FOR DIGITAL SUBSCRIBER LOOP QUALIFICATION	Eichen, Elliot :: Brooks, David L.	19-May-1999
97-822 IR	IE	1093609	METHOD AND APPARATUS FOR DIGITAL SUBSCRIBER LOOP QUALIFICATION	Eichen, Elliot :: Brooks, David L.	19-May-1999
97-822 IT	IT	1093609	METHOD AND APPARATUS FOR DIGITAL SUBSCRIBER LOOP QUALIFICATION	Eichen, Elliot :: Brooks, David L.	19-May-1999
97-822 LX	LU	1093609	METHOD AND APPARATUS FOR DIGITAL SUBSCRIBER LOOP QUALIFICATION	Eichen, Elliot :: Brooks, David L.	19-May-1999
97-822 MN	MC	1093609	METHOD AND APPARATUS FOR DIGITAL SUBSCRIBER LOOP	Eichen, Elliot :: Brooks, David L.	19-May-1999

			QUALIFICATION		
98-409 IS	IL	139486	METHOD AND SYSTEM FOR CONNECTIONLESS COMMUNICATION IN A CELL RELAY SATELLITE NETWORK	Yuan, Ruixi :: Strayer, William T. :: Akyoi, Bora	15-Jun-1999
98-501	US	6,493,425	METHOD AND SYSTEM FOR TESTING A NETWORK ELEMENT WITHIN A TELECOMMUNICATIONS NETWORK	Abe, Robert G.	09-Sep-1998
98-804	US	6,445,712	BROADBAND ARCHITECTURE USING EXISTING TWISTED PAIR	Cooperman, Michael :: Armiento, Craig A.	08-Jun-1999
98-814	US	6,456,838	GENERTIC APPROACH TO GENERATING PERMUTATIONS FOR ALL-TO-ALL PERSONALIZED EXCHANGE FOR SELF-ROUTING MULTISTAGE INTERCONNECTION NETWORKS	Yang, Yuanyang :: Wang, Jianchao	17-Feb-1999
99-306	US	6,493,431	METHOD AND SYSTEM FOR CAPTURING TELEPHONE CALLS	Troen-Krasnow, David M. :: Winnett, Steven R.	17-Nov-1999
99-315	US	6,493,437	ADVERTIZING-SUBSIDIZED PC-TELEPHONY	Olshansky, Robert	26-Apr-2000
99-502	US	6,510,464	SECURE GATEWAY HAVING ROUTING FEATURE [aka AEGIS]	McGrath, Lawrence R. :: Grantges, David R. Jr.	23-Dec-1999
99-502 CN	CA	2,394,479	SECURE GATEWAY HAVING ROUTING FEATURE [aka AEGIS]	McGrath, Lawrence R. :: Grantges, David R. Jr.	
99-502 EP	EP	00988058	SECURE GATEWAY HAVING ROUTING FEATURE [aka AEGIS]	McGrath, Lawrence R. :: Grantges, David R. Jr.	
99-503	US	6,324,648	SECURE GATEWAY HAVING USER IDENTIFICATION AND PASSWORD AUTHENTICATION [aka AEGIS]	Grantges, David R. Jr.	23-Dec-1999
99-503 CN	CA	2,394,493	SECURE GATEWAY HAVING USER IDENTIFICATION AND PASSWORD AUTHENTICATION [aka AEGIS]	Grantges, David R. Jr.	14-Dec-2000
99-503 EP	EP	00984329	SECURE GATEWAY HAVING USER IDENTIFICATION AND PASSWORD AUTHENTICATION [aka AEGIS]	Grantges, David R. Jr.	14-Dec-2000
99-703	US	09/426,442	SYSTEMS AND METHODS FOR SECURING EXTRANET TRANSACTIONS [aka THE VAULT]	Scott, Ronald L. :: Garrity, Sharyn M. :: Helsinger, Aaron M.	25-Oct-1999
99-833	US	6,567,858	OPTIMAL ALL-TO-ALL PERSONALIZED EXCHANGE IN OPTICAL MULTISTAGE NETWORKS	Wang, Jianchao :: Yang, Yuan Y.	20-Sep-1999
99-837	US	7,143,152	GRAPHICAL USER INTERFACE AND METHOD FOR CUSTOMER CENTRIC NETWORK MANAGEMENT	Elman, Boris S. :: Kenneson, David G. :: Silletti, Andrew	31-Mar-2000
99-837D1	US	11/588,392	GRAPHICAL USER INTERFACE AND METHOD FOR CUSTOMER CENTRIC NETWORK MANAGEMENT	Kenneson, David G. :: Elman, Boris S. :: Silletti, Andrew	27-Oct-2006

Recordable Patent Assignment
(LVL3 and VCSG to VPLI)

99-838D1	US	11/758,835	METHODS AND SYSTEMS FOR SELECTION OF MULTIMEDIA PRESENTATIONS	Nicol, John R. :: Wittenburg, Kent B. :: Paschetto, James E. :: Martin, Christopher A.	06-Jun-2007
99-845	US	6,925,399	METHODS AND SYSTEMS FOR THE ESTIMATION OF THE INJECTION POINT OF FOREIGN SIGNALS IN A NETWORK	Harrison, Warner G.	30-Mar-2001
99-865	US	09/597,492	SYSTEM AND METHOD FOR PERFORMING A SECURE CREDIT TRANSACTION	Yang, Che Liang :: Carroll, Christopher P.	21-Jun-2000
99-969	US	7,027,997	FLEXIBLE WEB-BASED INTERFACE FOR WORKFLOW MANAGEMENT SYSTEMS	Jing, Jin :: Robinson, William B. :: Hurwitz, Benjamin :: Sinha, Himanshu S.	02-Nov-2000
99-973	US	6,831,945	METHOD AND APPARATUS FOR REMOTE IDENTIFICATION OF TRANSMISSION CHANNEL INTERFERENCE	Lovell, John W. :: Harrison, Warner G.	16-Jun-2000

SCHEDULE A-2

97-467 FR	FR	371772	MEMORY ACCESSING SWITCH NETWORK	Crowther, William R. :: Carvey, Philip P. :: Rettberg, Randall D.	29-Nov-1989
97-814 IN DIV	IN	00747/MU MNP/05	MULTI-LINE TELEPHONY VIA NETWORK GATEWAYS	Zibman, Israel B. :: Kelly, Barbara M. :: Gardell, Steven E.	22-Oct-1999
97-814 IS	IL	142739	MULTI-LINE TELEPHONY VIA NETWORK GATEWAYS	Zibman, Israel B. :: Kelly, Barbara M. :: Gardell, Steven E.	22-Oct-1999
97-816 AU	AU	772770	METHOD AND SYSTEM FOR MONITORING BROADBAND QUALITY OF SERVICES	Liu, Stephen Shyan-Shiang :: Procanik, Michael J. :: Chen, Thomas M.	03-Jun-1999
97-816 BR	BR	PI9911195-0	METHOD AND SYSTEM FOR MONITORING BROADBAND QUALITY OF SERVICES	Liu, Stephen Shyan-Shiang :: Procanik, Michael J. :: Chen, Thomas M.	03-Jun-1999
97-816 HK	HK	HK1035818	METHOD AND SYSTEM FOR MONITORING BROADBAND QUALITY OF SERVICES	Liu, Stephen Shyan-Shiang :: Procanik, Michael J. :: Chen, Thomas M.	11-Jan-2008
97-816 PRC	CN	100352185C	METHOD AND SYSTEM FOR MONITORING BROADBAND QUALITY OF SERVICES	Liu, Stephen Shyan-Shiang :: Procanik, Michael J. :: Chen, Thomas M.	03-Jun-1999
98-802 CIP1 MX	MX	221890	METHOD AND SYSTEM FOR BURST CONGESTION CONTROL IN AN ATM NETWORK	Pathak, Girish :: Shulman, Alexander :: Gersht, Alexander	25-Jun-1999
98-802 CIP1 EP	FR	1090511	METHOD AND SYSTEM FOR BURST CONGESTION CONTROL IN AN ATM NETWORK	Pathak, Girish :: Shulman, Alexander :: Gersht, Alexander	25-Jun-1999
98-802 CIP1 EP	IT	1090511	METHOD AND SYSTEM FOR BURST CONGESTION CONTROL IN AN ATM NETWORK	Pathak, Girish :: Shulman, Alexander :: Gersht, Alexander	25-Jun-1999