PATENT ASSIGNMENT COVER SHEET

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NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
VERIZON SERVICES CORP.	04/09/2014

RECEIVING PARTY DATA

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State/Country:	NEW JERSEY
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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14324873

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NAME OF SUBMITTER:	JOSEPH R. PALMIERI
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DATE SIGNED:	02/09/2016

Total Attachments: 11
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ASSIGNMENT

This ASSIGNMENT is effective as of April 9, 2014, 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").
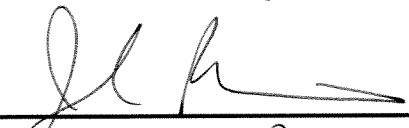
WHEREAS, ASSIGNEE is desirous of acquiring ownership of the United States and/or foreign Letters Patent and Applications for Letters Patent identified in Schedule A, as well as any legal equivalents and counterparts thereof in all countries or jurisdictions worldwide (whether listed on Schedule A or not), and the inventions disclosed therein (all hereinafter referred to as the "Patent Assets").

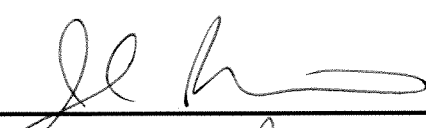WHEREAS, ASSIGNOR is desirous of granting to ASSIGNEE its ownership of the aforesaid Patent Assets.

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 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.

Verizon Services Corp.

Name: JOSEPH PALMIERI

Title: ASSISTANT SECRETARY

Verizon Patent and Licensing Inc.

Name: JOSEPH PALMIERI

Title: VICE PRESIDENT

**PATENT
REEL: 037691 FRAME: 0110**

SCHEDULE A

VZ ref	COUNTRY	APPLICATION NO	FILING DATE	PATENTNO	TITLE
01-1504	US	10180398	26-Jun-02	7352850	Offloading data traffic from facilities designed to handle voice call traffic
01-1505	US	09940563	28-Aug-01	6834101	AIN based call retry and enhanced call waiting services
01-1507	US	09841415	24-Apr-01	7194079	Methods and apparatus for forwarding facsimiles by phone and/or E-mail
01-1508	US	10072517	06-Feb-02	7664247	Methods and apparatus for integrating automatic route selection with AIN services
01-1509	US	10050649	16-Jan-02	6865266	Methods and apparatus for transferring from a PSTN to a VOIP telephone network
01-1509DIV1	US	11042989	25-Jan-05	7693135	Methods and apparatus for transferring from a PSTN to a VOIP telephone network
01-1513	US	10081310	22-Feb-02	6993355	Methods and apparatus for connecting family members
01-1514	US	10337106	06-Jan-03	7843923	Methods and apparatus for determining the port and/or physical location of an IP device and for using that information
01-1514CIP1	US	10457107	09-Jun-03	7836160	Methods and Apparatus for Wiretapping IP-Based Telephone Lines
01-1515	US	10457111	09-Jun-03	7843934	Methods and apparatus for providing emergency telephone service to IP-based telephone users
01-1515C1	US	12829170	01-Jul-10	8411672	METHODS AND APPARATUS FOR PROVIDING EMERGENCY TELEPHONE SERVICE TO IP-BASED TELEPHONE USERS
01-1517	US	10616405	08-Jul-03	7320070	Methods and apparatus for protecting against IP address assignments based on a false MAC address
01-1517C1	US	11953753	10-Dec-07	7844814	Methods and apparatus for protecting against IP address assignments based on a false MAC address
01-1518	US	10616449	08-Jul-03	7873985	IP based security applications using location, port and/or device identifier information
01-1518D1	US	12949357	18-Nov-10	8402559	IP BASED SECURITY APPLICATIONS USING LOCATION, PORT AND/OR DEVICE IDENTIFIER INFORMATION
01-1519	US	10136961	01-May-02		Automatic Configuration of Advanced Services Over DSL
01-1520	US	10142400	09-May-02	6757358	Methods and apparatus for a monitoring service
01-1521	US	10050733	16-Jan-02	7277421	Telephone call processing using SIP and/or ENUM
01-1523	US	10157590	29-May-02	8732249	Providing an advisory to a user of a processing system

01-5001	US	10016078	13-Dec-01	7039192	Methods for data encryption using multiple layer steganography
01-5003	US	10123803	16-Apr-02	6889339	Automated DSL network testing software tool
01-5003CON1	US	11074123	07-Mar-05	7363529	Automated DSL network testing software tool
02-1004	US	11122602	05-May-05	8041832	Network data distribution system and method
02-1502	US	10628080	25-Jul-03	7012992	Methods and apparatus for automating testing of signalling transfer points
02-1503	US	10108052	27-Mar-02	6968050	Methods and apparatus for authenticating and authorizing ENUM registrants
02-1503CON1	US	11215247	30-Aug-05		Methods and apparatus for authenticating and authorizing ENUM registrants
02-1505	US	10200898	22-Jul-02	7665024	Methods and apparatus for controlling a user interface based on the emotional state of a user
02-1505C1	US	12581675	19-Oct-09	8701003	METHODS AND APPARATUS FOR CONTROLLING A USER INTERFACE BASED ON THE EMOTIONAL STATE OF A USER
02-1506	US	10298807	17-Nov-02	6999576	System connection adapter and terminal
02-1507	US	10290683	08-Nov-02	6931113	Facilitation of a conference call
02-1507CON1	US	11129253	13-May-05	7539290	Facilitation of a conference call
02-1507CON2	US	12470319	21-May-09	8498389	FACILITATION OF A CONFERENCE CALL
02-1508	US	10316426	11-Dec-02	7702091	METHODS AND APPARATUS FOR INTEROPERATING COMMUNICATION NETWORKS
02-1508D1	US	12715166	01-Mar-10		METHODS AND APPARATUS FOR INTEROPERATING COMMUNICATION NETWORKS
02-1511	US	10384459	07-Mar-03	7561798	Testing a fiber link in a communication system without interrupting service
02-1511C1	US	12486961	18-Jun-09		TESTING A FIBER LINK IN A COMMUNICATION SYSTEM WITHOUT INTERRUPTING SERVICE
02-1512A	US	10434050	08-May-03	8307064	METHODS AND APPARATUS FOR AUTOMATED SOFTWARE GENERIC INFORMATION RETRIEVAL
02-1512B	US	10449283	30-May-03		Methods and apparatus for network time synchronization
02-1513	US	10304154	26-Nov-02	6773282	Modular telephone jack for multi-occupant dwelling
02-1515	US	10439829	16-May-03	7203299	Methods and apparatus for using AIN techniques to forward answered calls to one of a plurality of voice mailboxes
03-1005	US	10858973	02-Jun-04		METHODS AND SYSTEMS FOR INTEGRATING COMMUNICATIONS SERVICES

03-1005C1	US	13280875	25-Oct-11		METHODS AND SYSTEMS FOR INTEGRATING COMMUNICATIONS SERVICES
03-1016	US	10721005	24-Nov-03	7912193	Methods and systems for call management with user intervention
03-1016C1	US	12256583	23-Oct-08		METHODS AND SYSTEMS FOR CALL MANAGEMENT WITH USER INTERVENTION
03-1020	US	10720870	24-Nov-03	8488761	METHODS AND SYSTEMS FOR A CALL LOG
03-1501	US	10715661	18-Nov-03		METHODS AND APPARATUS FOR IDENTIFYING AND PROCESSING OPERATOR SERVICE CALLS
03-1504	US	10818138	05-Apr-04	8510217	INTERNET-CALLING CARD
03-1506	US	10678328	03-Oct-03	7421734	Network firewall test methods and apparatus
03-1506C1	US	12199486	27-Aug-08	8001589	NETWORK FIREWALL TEST METHODS AND APPARATUS
03-1508	US	10755502	12-Jan-04	8583439	Enhanced interface for use with speech recognition
03-1508C1	US	14076776	11-Nov-13		Enchanced Interface for Use with Speech Recognition
03-1509	US	10868298	15-Jun-04	7734037	REMOTE TERMINAL UNIT CONNECTOR
03-1510	US	10679222	03-Oct-03	7886348	Security management system for monitoring firewall operation
03-1510C1	US	12428666	23-Apr-09	8046828	SECURITY MANAGEMENT SYSTEM FOR MONITORING FIREWALL OPERATION
03-1510C2	US	13026446	14-Feb-11		SECURITY MANAGEMENT SYSTEM FOR MONITORING FIREWALL OPERATION
03-1511	US	10678779	03-Oct-03	7076393	Methods and apparatus for testing dynamic network firewalls
03-1512	US	10815549	01-Apr-04	7573819	Methods and apparatus for controlling bandwidth and service in a communications system
03-1516	US	10922704	20-Aug-04	7376221	Methods and apparatus for multi-mode telephone
03-1517	US	10949549	24-Sep-04		BATCH HOT CUT
03-1518	US	10892072	15-Jul-04	7340166	Methods and apparatus for automated testing and analysis of dense wavelength division multiplexing (DWDM), wavelength selective and/or optical switching devices
03-1518C1	US	11955873	13-Dec-07	7769292	AUTOMATED TESTING AND ANALYSIS OF DENSE WAVE DIVISION MULTIPLEXING (DWDM) SWITCHING DEVICES
03-5007	US	10961705	07-Oct-04	8732782	SYSTEMS AND METHODS FOR PROVIDING COMMUNICATION SERVICES OVER TELEPHONE LINES
03-8007	US	10850915	20-May-04	7734031	SYSTEMS AND METHODS FOR INTEGRATING PSTN AND IP APPLICATION PLATFORMS TO ENABLE ADVANCED TELEPHONY SERVICES

**PATENT
REEL: 037691 FRAME: 0113**

04-1014	US	11647227	29-Dec-06		Method and apparatus for enabling a user to perform telecommunications operations
04-1017	US	11616922	28-Dec-06	8311199	Methods and Systems for Configuring and Providing Conference Calls with Customized Caller ID Information
04-1502	US	10948515	23-Sep-04	7003080	Methods and apparatus for reducing data capture and storage requirements for call and transaction related message monitoring and fraud detection
04-1502CON1	US	11338846	25-Jan-06	7609818	Methods and apparatus for reducing data capture and storage requirements for call and transaction related message monitoring and fraud detection
04-1502CON2	US	12538521	10-Aug-09	8005192	METHODS AND APPARATUS FOR REDUCING DATA CAPTURE AND STORAGE REQUIREMENTS FOR CALL AND TRANSACTION RELATED MESSAGE MONITORING AND FRAUD DETECTION
04-1506	US	11128034	12-May-05	8085808	Automatic configuration of network devices for network services
04-1507	US	11114645	25-Apr-05	7715312	Methods and systems for maintaining quality of service (QOS) levels for data transmissions
04-1507C1	US	12766326	23-Apr-10	8705350	METHODS AND SYSTEMS FOR MAINTAINING QUALITY OF SERVICE (QOS) LEVELS FOR DATA TRANSMISSIONS
04-1508	US	11191582	28-Jul-05	7760738	ADMISSION CONTROL FOR SERVICES
04-1508C1	US	12796347	08-Jun-10	8144629	ADMISSION CONTROL FOR SERVICES
04-1509	US	11198548	05-Aug-05	7826837	SYSTEMS AND METHODS FOR TRACKING SIGNAL STRENGTH IN WIRELESS NETWORKS
04-1510	US	11093699	30-Mar-05	7853996	METHODOLOGY, MEASUREMENTS AND ANALYSIS OF PERFORMANCE AND SCALABILITY OF STATEFUL BORDER GATEWAYS
04-1510C1	US	12551699	01-Sep-09	8015602	METHODOLOGY, MEASUREMENTS AND ANALYSIS OF PERFORMANCE AND SCALABILITY OF STATEFUL BORDER GATEWAYS
04-1511	US	11233711	23-Sep-05	7489936	System and method for locating mobile terminals in mobile communication networks
04-1511C1	US	12347662	31-Dec-08	8260327	SYSTEM AND METHOD FOR LOCATION AREA PLANNING IN MOBILE COMMUNICATION NETWORKS UNDER DELAY BOUND
04-1513	US	11332265	17-Jan-06	7282644	Aerial cable splice closure
04-1514	US	11282706	21-Nov-05	8370132	DISTRIBUTED APPARATUS AND METHOD FOR A PERCEPTUAL QUALITY MEASUREMENT SERVICE

04-1515	US	11171925	30-Jun-05		METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCT FOR SYNCHRONIZATION OF NETWORK PERFORMANCE TESTS
04-1519	US	11563480	27-Nov-06	8452309	METHOD AND SYSTEM FOR SENDING RING SETTING REMINDERS TO MOBILE DEVICES WITHIN A PREDETERMINED AREA
04-1519C1	US	13888867	07-May-13		METHOD AND SYSTEM FOR SENDING RING SETTING REMINDERS TO MOBILE DEVICES WITHIN A PREDETERMINED AREA
04-1523	US	11350029	09-Feb-06	7826364	DYNAMIC SERVICE-AWARE FLOW CONTROL IN PACKET NETWORKS
04-1523C1	US	12869219	26-Aug-10		DYNAMIC SERVICE-AWARE FLOW CONTROL IN PACKET NETWORKS
04-1524	US	11224502	12-Sep-05	8102877	SYSTEMS AND METHODS FOR POLICY-BASED INTELLIGENT PROVISIONING OF OPTICAL TRANSPORT BANDWIDTH
04-1524C1	US	13343397	04-Jan-12	8665903	SYSTEMS AND METHODS FOR POLICY-BASED INTELLIGENT PROVISIONING OF OPTICAL TRANSPORT BANDWIDTH
04-1524C2	US	14182962	18-Feb-14		SYSTEMS AND METHODS FOR POLICY-BASED INTELLIGENT PROVISIONING OF OPTICAL TRANSPORT BANDWIDTH
04-1525	US	11159905	23-Jun-05	7945039	OPERATOR SERVICES CUSTOMIZATION WITH ADVANCED INTELLIGENT NETWORK INTEGRATION OF A PROFILE DATABASE
04-1528	US	11159480	23-Jun-05	8248913	SYSTEM AND METHOD TO SUPPORT FULL-TIME PROTECTION SERVICES IN A NETWORK
04-1529	US	11224752	12-Sep-05	7817665	Systems and methods for interworking QSIG and H.323 signaling in a SIP-based network
04-1529C1	US	12611696	03-Nov-09	8520701	SYSTEMS AND METHODS FOR INTERWORKING OSIG AND H.323 SIGNALING IN A SIP-BASED NETWORK
04-1530	US	11264254	02-Nov-05	7554929	Mobility aware performance evaluation
04-1531	US	11368520	07-Mar-06	8279759	PROTOCOL INTER-WORKED PING MECHANISM
04-1532	US	11368706	07-Mar-06	8270309	SYSTEMS FOR MONITORING DELIVERY PERFORMANCE OF A PACKET FLOW BETWEEN REFERENCE NODES
04-1532CON1	US	11497841	02-Aug-06	8369229	METHODS FOR MONITORING DELIVERY PERFORMANCE OF A PACKET FLOW BETWEEN REFERENCE NODES
04-1537	US	11453876	16-Jun-06	7526154	Cover for optical fibers and/or optical devices
04-1537C1	US	12347634	31-Dec-08	7978952	COVER FOR OPTICAL FIBERS AND/OR OPTICAL DEVICES
04-1538	US	11539693	09-Oct-06	7912369	Optical Signal Shutoff Mechanism and Associated System
04-1538C1	US	13029414	17-Feb-11	8699874	Optical Signal Shutoff Mechanism and Associated System

04-1544	US	11264049	02-Nov-05	8478669	SYSTEMS AND METHODS FOR MODELING TELECOMMUNICATION SWITCH INVESTMENTS
04-1544D1	US	13908383	03-Jun-13		SYSTEMS AND METHODS FOR MODELING TELECOMMUNICATION SWITCH INVESTMENTS
04-1545	US	11610298	13-Dec-06		HYBRID INTERNET PROTOCOL BASED SESSION CONTROL PROTOCOL AND PSTN COMMUNICATIONS
04-1547	US	11305044	19-Dec-05	7990978	DYNAMIC BANDWIDTH QUEUE ALLOCATION
04-1547C1	US	13165910	22-Jun-11		DYNAMIC BANDWIDTH QUEUE ALLOCATION
04-5006	US	11144566	03-Jun-05	8434115	MULTI-COMPONENT ONT POWER SUPPLY
04-5008	US	11485112	12-Jul-06	8266701	Systems and Methods for Measuring Cyber Based Risks in an Enterprise Organization
04-8010	US	11224515	12-Sep-05	7733870	BANDWIDTH-ON-DEMAND SYSTEMS AND METHODS
04-8010C1	US	12683159	06-Jan-10	8363562	BANDWIDTH-ON-DEMAND SYSTEMS AND METHODS
04-8010C2	US	13740671	14-Jan-13		BANDWIDTH-ON-DEMAND SYSTEMS AND METHODS
04-8012	US	11280325	17-Nov-05	8340262	HOME CALL ROUTER
04-8013	US	11273296	14-Nov-05		Passive locator
04-8014	US	11236516	28-Sep-05	7773974	PRESENCE LITE
04-8014C1	US	12848801	02-Aug-10	8005463	PRESENCE LITE
04-8015	US	11253740	20-Oct-05	7664083	Monitoring portal systems and methods
04-8015C1	US	12686923	13-Jan-10	7983188	Monitoring Portal Systems and Methods
04-8016	US	11293242	05-Dec-05	7493324	Method and computer program product for using data mining tools to automatically compare an investigated unit and a benchmark unit
04-8016C1	US	12251750	15-Oct-08	7970785	METHOD AND COMPUTER PROGRAM PRODUCT FOR USING DATA MINING TOOLS TO AUTOMATICALLY COMPARE AN INVESTIGATED UNIT AND A BENCHMARK UNIT
04-8016C2	US	13117229	27-May-11	8306997	METHOD AND COMPUTER PROGRAM PRODUCT FOR USING DATA MINING TOOLS TO AUTOMATICALLY COMPARE AN INVESTIGATED UNIT AND A BENCHMARK UNIT
04-8022	US	11261602	31-Oct-05	8265061	OPTIMAL EXPANSION OF A TELECOMMUNICATIONS NETWORK
04-8026	US	11356052	17-Feb-06	8584174	SYSTEMS AND METHODS FOR FANTASY LEAGUE SERVICE VIA TELEVISION
05-1002	US	11173196	01-Jul-05	8402525	WEB SERVICES SECURITY SYSTEM AND METHOD

PATENT
REEL: 037691 FRAME: 0116

05-1002D1	US	13800944	13-Mar-13		SYSTEM AND METHOD FOR WEB SERVICES MANAGEMENT
05-1005	US	11465004	16-Aug-06	7836147	Method and Apparatus for Address Book Contact Sharing
05-1007	US	11539739	09-Oct-06		Systems And Methods For Real-Time Interactive Television Polling
05-1008	US	11482403	07-Jul-06	8611521	Systems and Methods for Multi-Media Control of Audio Conferencing
05-1009	US	11337568	24-Jan-06	7809882	SESSION INDEPENDENT BACKEND DATA CACHE SYSTEM
05-1501	US	11329128	11-Jan-06	8064356	SYSTEM AND METHODS FOR MEASURING NETWORK PERFORMANCE
05-1501C1	US	13284006	28-Oct-11		SYSTEMS AND METHODS FOR MEASURING NETWORK PERFORMANCE
05-1502	US	11272732	15-Nov-05		SYSTEMS AND METHODS FOR MEASURING NETWORK PERFORMANCE
05-1508	US	11453877	16-Jun-06	7886350	Methodology for measurements and analysis of protocol conformance, performance and scalability of stateful border gateways
05-1508C1	US	12791950	02-Jun-10	8509095	METHODOLOGY FOR MEASUREMENTS AND ANALYSIS OF PROTOCOL CONFORMANCE, PERFORMANCE AND SCALABILITY OF STATEFUL BORDER GATEWAYS
05-1510	US	11542415	03-Oct-06		SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR ABSENCE MANAGEMENT AND TRACKING
05-1515	US	11371234	09-Mar-06		PROCESS ABSTRACTION AND TRACKING, SYSTEMS AND METHODS
05-1517	US	11405427	18-Apr-06		SYSTEMS, METHODS AND COMPUTER PROGRAM PRODUCT FOR SCREEN SCRAPING USING GENERIC SCREEN DEFINITION TEMPLATES
05-1519	US	11474994	27-Jun-06	8718599	Usage Notification for a Mobile Device
05-1520	US	11504492	15-Aug-06	8126126	METHOD FOR PROVIDING CUSTOM RING-BACK TONES
05-1520C1	US	13405899	27-Feb-12		Method for Providing Custom Ring-Back Tones
05-1522	US	11608675	08-Dec-06	8553853	SYSTEMS AND METHODS FOR USING THE ADVANCED INTELLIGENT NETWORK TO REDIRECT DATA NETWORK TRAFFIC
05-1522D1	US	14044996	03-Oct-13		SYSTEMS AND METHODS FOR USING THE ADVANCED INTELLIGENT NETWORK TO REDIRECT DATA NETWORK TRAFFIC
05-1523	US	11614732	21-Dec-06	8291120	SYSTEMS, METHODS, AND COMPUTER PROGRAM PRODUCT FOR AUTOMATICALLY VERIFYING A STANDBY SITE
05-1524	US	11350028	09-Feb-06	7836084	CENTRAL DATABASE ROUTING FOR DISTRIBUTED APPLICATIONS

05-1525	US	11557751	08-Nov-06		SYSTEM AND METHOD FOR TESTING NETWORK FIREWALL USING FINE GRANULARITY MEASUREMENTS
05-1526	US	11557703	08-Nov-06	8027251	SYSTEMS AND METHODS FOR IMPLEMENTING PROTOCOL-AWARE NETWORK FIREWALL
05-1526C1	US	13239986	22-Sep-11		SYSTEMS AND METHODS FOR IMPLEMENTING A PROTOCOL-AWARE NETWORK FIREWALL
05-1527	US	11355067	16-Feb-06	8320529	SENDING URGENT MESSAGES TO MULTIPLE RECIPIENTS VIA A SINGLE CALL
05-1530	US	11355168	16-Feb-06	7354316	CATEGORY 5E COMPLAINT PATCH PANEL
05-1531	US	11828661	26-Jul-07		TEST AUTOMATION FOR AN INTEGRATED TELEPHONY CALL MANAGEMENT SERVICE
05-1533	US	11460008	26-Jul-06		AUTOMATED PACKET SWITCH CARRIER HEALTH MONITORING PROCESS
05-1533CIP1	US	11560954	17-Nov-06	7675864	Automated packet switch carrier health monitoring process
05-1534	US	11436552	19-May-06	7839982	Systems and methods for routing emergency communications
05-1535	US	11507611	22-Aug-06	7899158	Method and apparatus for measurement of service disruption interval
05-1536	US	11474990	27-Jun-06	7738717	SYSTEMS AND METHODS FOR OPTIMIZING BIT UTILIZATION IN DATA ENCODING
05-1536C1	US	12780354	14-May-10	7978924	SYSTEMS AND METHODS FOR OPTIMIZING BIT UTILIZATION IN DATA ENCODING
05-1536C2	US	13155049	07-Jun-11	8509554	SYSTEMS AND METHODS FOR OPTIMIZING BIT UTILIZATION IN DATA ENCODING
05-1537	US	11828631	26-Jul-07	8199748	AUTOMATED CONFIGURATION OF A DIGITAL CROSS CONNECT
05-1538	US	11618153	29-Dec-06	7796641	Method, Computer Program Product, and Apparatus for Providing a Universal High Speed Link for Operation Support System Data
05-1539	US	11591882	02-Nov-06	8498386	ON HOLD CONTENT SELECTION
05-1540	US	11602349	21-Nov-06	7555685	Method and apparatus for monitoring bit-error rate
05-1540C1	US	12480629	08-Jun-09	8209569	Method and Apparatus for Monitoring Bit-Error Rate
05-5003	US	11366565	03-Mar-06	7313311	Telescoping arm with multiple fiber-optic terminals
05-5009	US	11503048	11-Aug-06	7768938	Systems and methods for providing multiple communication services over existing twisted pair access lines
05-5009CON1	US	12844129	27-Jul-10	8737242	SYSTEMS AND METHODS FOR PROVIDING MULTIPLE COMMUNICATION SERVICES OVER EXISTING TWISTED PAIR ACCESS LINES
05-5011	US	11475246	27-Jun-06		Plug and play fiber distribution hub

05-8005	US	11392784	30-Mar-06	8069461	On-screen program guide with interactive programming recommendations
05-8005C1	US	13292607	09-Nov-11	8677415	On-screen program guide with interactive programming recommendations
05-8005C2	US	14216888	17-Mar-14		On-screen program guide with interactive programming recommendations
05-8006	US	11373178	13-Mar-06		INTEGRATING DATA ON PROGRAM POPULARITY INTO AN ON-SCREEN PROGRAM GUIDE
05-8008	US	11483870	10-Jul-06		System and Methods for Real-Time Access to Movie Information
05-8011	US	11611971	18-Dec-06	8250605	SYSTEMS AND METHODS FOR PRESENTATION OF PREFERRED PROGRAM SELECTIONS

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