

TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

ETAS ID: TM403681

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	AMENDED AND RESTATED PATENT AND TRADEMARK SECURITY AGREEMENT

CONVEYING PARTY DATA

Name	Formerly	Execution Date	Entity Type
Extreme Networks, Inc.		07/24/2015	Corporation: DELAWARE

RECEIVING PARTY DATA

Name:	Silicon Valley Bank
Street Address:	3003 Tasman Drive
City:	Santa Clara
State/Country:	CALIFORNIA
Postal Code:	95054
Entity Type:	Corporation: CALIFORNIA

PROPERTY NUMBERS Total: 15

Property Type	Number	Word Mark
Registration Number:	2281382	BLACKDIAMOND
Registration Number:	4841944	E
Registration Number:	4874975	E EXTREME NETWORKS
Registration Number:	2243238	EXTREME NETWORKS
Registration Number:	3840628	EXTREME NETWORKS
Registration Number:	2549958	EXTREMEWORKS
Registration Number:	3379396	EXTREMEXOS
Registration Number:	2388859	
Registration Number:	4073424	R
Registration Number:	3796814	REACHNXT
Registration Number:	2365696	SUMMIT
Registration Number:	4837384	WI-FI COACH
Serial Number:	85081190	AIRDEFENSE
Serial Number:	74610015	SPECTRUM 24
Serial Number:	76317439	WIRELESS NETWORKER

CORRESPONDENCE DATA

Fax Number: 4152687522

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

TRADEMARK

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 415-268-7000
Email: ksamia@mofo.com
Correspondent Name: Jennifer Lee Taylor
Address Line 1: 425 Market Street
Address Line 2: c/o Morrison & Foerster LLP
Address Line 4: San Francisco, CALIFORNIA 94105

ATTORNEY DOCKET NUMBER:	27292-109
NAME OF SUBMITTER:	Jennifer Lee Taylor
SIGNATURE:	/JLT2/
DATE SIGNED:	10/28/2016

Total Attachments: 54

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AMENDED AND RESTATED PATENT AND TRADEMARK SECURITY AGREEMENT

THIS AMENDED AND RESTATED PATENT AND TRADEMARK SECURITY AGREEMENT (this "*Agreement*"), dated as of July 24, 2015, and amended and restated as of October 28, 2016 is made between EXTREME NETWORKS, INC., a Delaware corporation (the "*Grantor*"), and SILICON VALLEY BANK, a California corporation, as administrative agent for the Lenders referred to below and for the benefit of the Secured Parties defined in the Amended and Restated Credit Agreement referred to below (in such capacity, the "*Administrative Agent*").

A. The Grantor, certain financial institutions as lenders (the "*Lenders*") and the Administrative Agent are parties to that certain Credit Agreement, dated as of March 20, 2014 (as (a) amended by that certain amendment letter agreement dated as of March 20, 2014, (b) further amended by that certain Second Amendment Agreement dated as of November 18, 2014, (c) further amended by that certain Third Amendment to Credit Agreement and First Amendment to Guarantee and Collateral Agreement dated as of June 26, 2015, (d) further amended, modified, renewed or extended from time to time prior to the date hereof, the "*Existing Credit Agreement*") and (e) amended and restated as of the date hereof pursuant to the Amended and Restated Credit Agreement (as further amended, modified, renewed or extended from time to time after the date hereof, the "*Amended and Restated Credit Agreement*").

B. The Grantor, Enterasys Networks, Inc., a Delaware corporation, and the Administrative Agent are parties to that certain Guarantee and Collateral Agreement, dated as of March 20, 2014 (as (a) amended by that certain Third Amendment to Credit Agreement and First Amendment to Guarantee and Collateral Agreement dated as of June 26, 2015 and (b) further amended, modified, renewed or extended from time to time after the date hereof, the "*Guarantee and Collateral Agreement*").

C. Pursuant to the terms of the Guarantee and Collateral Agreement, the Grantor granted to the Administrative Agent (for the benefit of the Secured Parties and to secure the Secured Obligations (as defined in the Guarantee and Collateral Agreement)) a security interest in substantially all of the Grantor's present and future personal property assets (including the Intellectual Property of the Grantor) and, to further evidence such security interest grant in the Intellectual Property of the Grantor, the Grantor and the Administrative Agent entered into that certain Borrower Patent and Trademark Security Agreement dated June 24, 2015 (the "*Existing Borrower Patent and Trademark Security Agreement*").

D. The Grantor has requested that the Administrative Agent and the Lenders agree to amend and restate the Existing Borrower Patent and Trademark Security Agreement in the form of this Agreement and the Administrative Agent and the Lenders have agreed to such request, subject to the terms and conditions hereof.

Accordingly, the parties hereto agree as follows:

SECTION 1 Definitions; Interpretation.

(a) Terms Defined in Amended and Restated Credit Agreement and the Guarantee and Collateral Agreement. All capitalized terms used in this Agreement (including in the recitals hereof) and not otherwise defined herein shall have the respective meanings assigned to such terms in the Amended and Restated Credit Agreement or the Guarantee and Collateral Agreement, as the context may require.

(b) Interpretation. The rules of interpretation set forth in Section 1.2 of the Amended and Restated Credit Agreement shall be applicable to this Agreement and are incorporated herein by this reference.

SECTION 2 Security Interest.

(a) Grant of Security Interest. As security for the payment and performance of the Secured Obligations, the Grantor hereby grants, assigns, and conveys to the Administrative Agent (for the benefit of the Secured Parties), a security interest in all of the Grantor's right, title and interest in, to and under the following property, in each case whether now or hereafter existing or arising or in which the Grantor now has or hereafter owns, acquires or develops an interest and wherever located (collectively, the "*Collateral*"):

(i) all patents and patent applications, domestic or foreign, all licenses relating to any of the foregoing and all income and royalties with respect to any licenses (including such patents and patent applications as described in Schedule A), all rights to sue for past, present or future infringement thereof, all rights arising therefrom and pertaining thereto and all reissues, divisions, continuations, renewals, extensions and continuations-in-part thereof; provided that the Collateral shall not include any such patent that constitutes an Excluded Patent (as defined in the Guarantee and Collateral Agreement);

(ii) all state (including common law), federal and foreign trademarks, service marks and trade names, and applications for registration of such trademarks, service marks and trade names, all licenses relating to any of the foregoing and all income and royalties with respect to any licenses (including such marks, names and applications as described in Schedule B), whether registered or unregistered and wherever registered, all rights to sue for past, present or future infringement or unconsented use thereof, all rights arising therefrom and pertaining thereto and all reissues, extensions and renewals thereof;

(iii) the entire goodwill of or associated with the businesses now or hereafter conducted by the Grantor connected with and symbolized by any of the aforementioned properties and assets;

(iv) all Commercial Tort Claims associated with or arising out of any of the aforementioned properties and assets;

(v) all accounts, all intangible intellectual or other similar property and other general intangibles associated with or arising out of any of the aforementioned properties and assets and not otherwise described above, including all license payments and payments under insurance (whether or not the Administrative Agent is the loss payee thereof) or any indemnity, warranty or guaranty payable by reason of loss or damage to or otherwise with respect to the foregoing Collateral; and

(vi) all products, proceeds and supporting obligations of or with respect to any and all of the foregoing Collateral.

(b) Continuing Security Interest. The Grantor agrees that this Agreement shall create a continuing security interest in the Collateral which shall remain in effect until terminated in accordance with the Guarantee and Collateral Agreement.

SECTION 3 Supplement to Guarantee and Collateral Agreement. The terms and provisions of this Agreement are intended as a supplement to the terms and provisions of the Guarantee and Collateral Agreement. The rights and remedies of the Administrative Agent with respect to the security interests

granted herein are without prejudice to, and are in addition to those set forth in the Guarantee and Collateral Agreement, all terms and provisions of which are incorporated herein by reference.

SECTION 4 Authorization to Supplement. If the Grantor shall obtain rights to any new trademarks, any new patentable inventions or become entitled to the benefit of any patent application or patent for any reissue, division, or continuation, of any patent, the provisions of this Agreement shall automatically apply thereto. To the extent required by the terms and provisions of the Guarantee and Collateral Agreement, the Grantor shall give prompt notice in writing to the Administrative Agent with respect to any such new trademarks or patents, or renewal or extension of any trademark registration. Without limiting the Grantor's obligation under this Section 4, the Grantor authorizes the Administrative Agent to modify this Agreement by amending Schedule A or Schedule B, as applicable, to include any such new patent or trademark rights. No failure to so amend Schedule A or Schedule B, as applicable, shall in any way affect, invalidate or detract from the Administrative Agent's continuing security interest in all Collateral (held for the benefit of the Secured Parties), whether or not listed on Schedule A or Schedule B.

SECTION 5 Further Acts. On a continuing basis, the Grantor shall make, execute, acknowledge and deliver, and file and record in the proper filing and recording places, all such instruments and documents, and take all such action as may be necessary or advisable or as may be requested by the Administrative Agent to carry out the intent and purposes of this Agreement, or for assuring, confirming or protecting the grant or perfection of the security interest granted or purported to be granted hereby, to ensure the Grantor's compliance with this Agreement or to enable the Administrative Agent to exercise and enforce its rights and remedies hereunder with respect to the Collateral, including any documents for filing with the USPTO and/or any applicable state office. The Administrative Agent may record this Agreement, an abstract thereof, or any other document describing the Administrative Agent's interest in the Collateral with the USPTO, including any modification hereof as provided above, at the expense of the Grantor.

SECTION 6 Binding Effect. This Agreement shall be binding upon, inure to the benefit of and be enforceable by the Grantor, the Administrative Agent, the other Secured Parties and their respective successors and assigns and shall bind any Person who becomes bound as a debtor to this Agreement.

SECTION 7 Governing Law. **THIS AGREEMENT AND THE RIGHTS AND OBLIGATIONS OF THE PARTIES UNDER THIS AGREEMENT SHALL BE GOVERNED BY, AND CONSTRUED AND INTERPRETED IN ACCORDANCE WITH, THE LAW OF THE STATE OF CALIFORNIA.** This Agreement is subject to the provisions of Section 10.14 of the Amended and Restated Credit Agreement relating to submission to jurisdiction, jury trial waiver and judicial reference, which provisions are by this reference incorporated herein, *mutatis mutandis*, as if set forth herein in full.

SECTION 8 Entire Agreement; Amendment. This Agreement contains the entire agreement of the parties with respect to the subject matter hereof and shall not be amended except by the written agreement of the parties as provided in Section 10.1 of the Amended and Restated Credit Agreement.

SECTION 9 Severability. Whenever possible, each provision of this Agreement shall be interpreted in such manner as to be effective and valid under all applicable laws and regulations. If, however, any provision of this Agreement shall be prohibited by or invalid under any such law or regulation in any jurisdiction, it shall, as to such jurisdiction, be deemed modified to conform to the minimum requirements of such law or regulation, or, if for any reason it is not deemed so modified, it shall be ineffective and invalid only to the extent of such prohibition or invalidity without affecting the

remaining provisions of this Agreement, or the validity or effectiveness of such provision in any other jurisdiction.

SECTION 10 Counterparts. This Agreement may be executed in any number of counterparts and by different parties hereto in separate counterparts, each of which when so executed shall be deemed to be an original and all of which taken together shall constitute but one and the same agreement. Delivery of an executed counterpart of a signature page of this Agreement by facsimile or in electronic (*i.e.*, “pdf” or “tif”) format shall be effective as delivery of a manually executed counterpart of this Agreement.

SECTION 11 Amendment and Restatement. This Agreement is intended to amend, restate and supersede the Existing Borrower Patent and Trademark Security Agreement, without novation. The Grantor hereby ratifies, affirms and acknowledges all of its Secured Obligations in respect of the Existing Borrower Patent and Trademark Security Agreement, as amended and restated hereby, and the related documents and agreements delivered by it hereunder. All references in the other Loan Documents to the Existing Borrower Patent and Trademark Security Agreement shall mean and be references to this Agreement (unless the context requires otherwise). The Grantor hereby acknowledges that neither the execution nor the delivery by the Administrative Agent of this Agreement shall (i) be deemed to create a course of dealing or otherwise obligate the Administrative Agent or any Lender to amend or amend and restate this agreement under the same or similar circumstances in the future or (ii) be deemed to create any implied waiver of any right or remedy of the Administrative Agent with respect to any term or provision of any Loan Document (including any term or provision relating to the occurrence of a Material Adverse Effect).

[Remainder of page intentionally left blank]

IN WITNESS WHEREOF, the parties hereto have duly executed this Agreement, as of the date first above written.

GRANTOR:

EXTREME NETWORKS, INC.

By: K. Motley

Name: Katayoun Motley

Title: EVP, Chief Administrative Officer & Corporate Secretary

ADMINISTRATIVE AGENT:

SILICON VALLEY BANK

By: _____

Name: _____

Title: _____

IN WITNESS WHEREOF, the parties hereto have duly executed this Agreement, as of the date first above written.

GRANTOR:

EXTREME NETWORKS, INC.

By: _____

Name: _____

Title: _____

ADMINISTRATIVE AGENT:

SILICON VALLEY BANK

By: Stephen Chang

Name: STEPHEN CHANG

Title: VICE PRESIDENT

SCHEDULE A
to the Amended and Restated Patent and Trademark Security Agreement

EXTREME NETWORKS, INC.

Issued U.S. Patents of the Grantor

<u>Jurisdiction</u>	<u>Patent No.</u>	<u>Issue Date</u>	<u>Inventor</u>	<u>Title</u>
USA	7017082	21-Mar-06	YIP MIKE	METHOD AND SYSTEM FOR A PROCESS MANAGER
USA	7376951	20-May-08	YIP MICHAEL	METHOD AND APPARATUS FOR CONTROLLING PROCESS DEPENDENCIES
USA	7660259	9-Feb-10	GROSSER DONALD B	METHODS AND SYSTEMS FOR HYBRID HARDWARE AND SOFTWARE-BASED MEDIA ACCESS CONTROL (MAC) ADDRESS LEARNING
USA	8117336	14-Feb-12	DERNOSEK LOUIS A	METHODS, SYSTEMS, AND COMPUTER PROGRAM PRODUCTS FOR PROVIDING ACCIDENTAL STACK JOIN PROTECTION
USA	7453874	18-Nov-08	NGUYEN KHA H	METHOD AND SYSTEM FOR INCREMENTALLY UPDATING A CHECKSUM IN A NETWORK DATA PACKET
USA	6766482	20-Jul-04	YIP MICHAEL	ETHERNET AUTOMATIC PROTECTION SWITCHING
USA	7003705	21-Feb-06	YIP MICHAEL	ETHERNET AUTOMATIC PROTECTION SWITCHING
USA	8107383	31-Jan-12	KASHYAP PRAKASH	REDUCING TRAFFIC LOSS IN AN EAPS SYSTEM
USA	8174980	8-May-12	FORD JEFFREY A	METHODS, SYSTEMS, AND COMPUTER READABLE MEDIA FOR DYNAMICALLY RATE LIMITING SLOWPATH PROCESSING OF EXCEPTION PACKETS
USA	7990850	2-Aug-11	STOKES OLEN L	REDUNDANT ETHERNET AUTOMATIC PROTECTION SWITCHING ACCESS TO VIRTUAL PRIVATE LAN SERVICES

<u>Jurisdiction</u>	<u>Patent No.</u>	<u>Issue Date</u>	<u>Inventor</u>	<u>Title</u>
USA	8797849	5-Aug-14	STOKES OLEN L	REDUNDANT ETHERNET AUTOMATIC PROTECTION SWITCHING ACCESS TO VIRTUAL PRIVATE LAN SERVICES
USA	7362700	22-Apr-08	FRICK JOHN KEVIN	METHODS AND SYSTEMS FOR HITLESS RESTART OF LAYER 3 PACKET FORWARDING
USA	8520507	27-Aug-13	SHAH, SUNIL	ETHERNET AUTOMATIC PROTECTION SWITCHING.
USA	7606240	20-Oct-09	SHAH SUNIL P	ETHERNET AUTOMATIC PROTECTION SWITCHING
USA	7483370	27-Jan-09	DAYAL RANA	METHODS AND SYSTEMS FOR HITLESS SWITCH MANAGEMENT MODULE FAILOVER AND UPGRADE
USA	7539750	26-May-09	PARKER DAVID K	SYSTEM AND METHOD FOR PACKET PROCESSOR STATUS MONITORING
USA	7894451	22-Feb-11	PARKER DAVID K	METHOD OF PROVIDING VIRTUAL ROUTER FUNCTIONALITY
USA	8605732	10-Dec-13	PARKER DAVID K	METHOD OF PROVIDING VIRTUAL ROUTER FUNCTIONALITY
USA	7823199	26-Oct-10	RATHI MANISH M	METHOD AND SYSTEM FOR DETECTING AND PREVENTING ACCESS INTRUSION IN A NETWORK
USA	8255996	28-Aug-12	ELROD CRAIG T	NETWORK THREAT DETECTION AND MITIGATION
USA	8615785	24-Dec-13	ELROD CRAIG T	NETWORK THREAT DETECTION AND MITIGATION
USA	8135007	13-Mar-12	KASRALIKAR RAHUL S	METHOD AND SYSTEM FOR REDIRECTING OF PACKETS TO AN INTRUSION PREVENTION SERVICE IN A NETWORK SWITCH
USA	7912091	22-Mar-11	KRISHNAN RAM	TRAFFIC FORWARDING IN A TRAFFIC-ENGINEERED LINK AGGREGATION GROUP

<u>Jurisdiction</u>	<u>Patent No.</u>	<u>Issue Date</u>	<u>Inventor</u>	<u>Title</u>
USA	8730963	20-May-14	Grosser, Don	METHODS, SYSTEMS, AND COMPUTER READABLE MEDIA FOR IMPROVED MULTI-SWITCH LINK AGGREGATION GROUP (MLAG) CONVERGENCE
USA	8233474	31-Jul-12	HEATH GREGORY R	COMMUNICATION OF LOCATION INFORMATION FOR AN IP TELEPHONY COMMUNICATION DEVICE
USA	6930985	16-Aug-05	RATHI MANISH	METHOD AND APPARATUS FOR MANAGEMENT OF CONFIGURATION IN A NETWORK
USA	6981174	27-Dec-05	HANNING, GARY	METHOD AND APPARATUS FOR A REDUNDANT PORT.
USA	7111017	19-Sep-06	FOROOD, NATALIE	DYNAMIC DEVICE MANAGEMENT AND DEPLOYMENT.
USA	7783733	24-Aug-10	YIP MICHAEL	METHOD AND APPARATUS FOR DYNAMIC CONFIGURATION MANAGEMENT
USA	7689678	30-Mar-10	YIP MICHAEL	METHOD AND APPARATUS FOR RESTORING THE CONFIGURATION OF A NETWORK DEVICE
USA	7290263	30-Oct-07	YIP MICHAEL	METHOD AND SYSTEM FOR A SCRIPTABLE COMMAND LINE INTERFACE
USA	7343597	11-Mar-08	SMITH RICHARD J	METHODS AND APPARATUS FOR COMMUNICATION BETWEEN AN APPLICATION AND A DEVICE
USA	7389505	17-Jun-08	BERENBERG, ANNA	METHOD AND APPARATUS FOR MODIFYING SOFTWARE
USA	7657635	2-Feb-10	YIP, MICHAEL	METHOD AND APPARATUS FOR CONVERTING NETWORK MANAGEMENT PROTOCOL TO MARKUP LANGUAGE.
USA	8775571	8-Jul-14	SRINIVASAN BALAJI	METHODS, SYSTEMS, AND COMPUTER PROGRAM PRODUCTS FOR DYNAMIC NETWORK ACCESS DEVICE PORT AND USER DEVICE CONFIGURATION F

Schedule A

<u>Jurisdiction</u>	<u>Patent No.</u>	<u>Issue Date</u>	<u>Inventor</u>	<u>Title</u>
USA	7149217	12-Dec-06	ALEXANDER CEDELL	LOAD-SHARING TECHNIQUE FOR DISTRIBUTING MULTI-PROTOCOL LABEL SWITCHING PROTOCOL ENCAPSULATED FLOWS ACROSS MULTIPLE PHY
USA	6977891	20-Dec-05	RANJAN ASHISH	METHOD AND SYSTEM FOR MULTICAST TRAFFIC REDUCTION
USA	7856019	21-Dec-10	SHAH SUNIL P	CONVERGENCE OF MULTICAST TRAFFIC APPARATUS, METHOD AND SYSTEM FOR IMPROVING NETWORK SECURITY
USA	7577996	18-Aug-09	MERCHANT SHEHZAD T	METHOD AND SYSTEM FOR AUTO DISCOVERY OF AUTHENTICATOR FOR NETWORK LOGIN
USA	7568107	28-Jul-09	RATHI MANISH	METHODS, SYSTEMS, AND COMPUTER PROGRAM PRODUCTS FOR MANAGING POWER ALLOCATION TO A DEVICE POWERED OVER A NETWORK COMMUNICATIONS CABLE BASED ON A CABLE CHARACTERISTIC
USA	7404091	22-Jul-08	GERE DAVID S	INTEGRATED NETWORK POLICY ENFORCEMENT
USA	8464312	11-Jun-13	SCHNEIDER HERB	POLICY BASED QUALITY OF SERVICE
USA	6104700	15-Aug-00	HADDOCK STEPHEN R	POLICY BASED QUALITY OF SERVICE
USA	6859438	22-Feb-05	HADDOCK STEPHEN R	METHOD AND APPARATUS FOR MEASURING PERFORMANCE IN PACKET-SWITCHED NETWORKS
USA	6647413	11-Nov-03	JEAN WALRAND	METHOD AND APPARATUS FOR PROVIDING QUALITY OF SERVICE ACROSS A SWITCHED BACKPLANE BETWEEN EGRESS AND INGRESS MANAGERS
USA	7408876	5-Aug-08	GUPTA RAJARSHI	METHOD AND APPARATUS FOR PROVIDING QUALITY OF SERVICE ACROSS A SWITCHED BACKPLANE BETWEEN EGRESS AND INGRESS QUEUE MAN
USA	7599292	6-Oct-09	GUPTA RAJARSHI	METHOD AND APPARATUS FOR PROVIDING QUALITY OF SERVICE ACROSS A SWITCHED BACKPLANE FOR MULTICAST PACKETS
USA	7286552	23-Oct-07	GUPTA; RAJARSHI	METHOD AND APPARATUS FOR PROVIDING QUALITY OF SERVICE ACROSS A SWITCHED BACKPLANE FOR MULTICAST PACKETS

<u>Jurisdiction</u>	<u>Patent No.</u>	<u>Issue Date</u>	<u>Inventor</u>	<u>Title</u>
USA	8274974	25-Sep-12	GUPTA; RAJARSHI	METHOD AND APPARATUS FOR PROVIDING QUALITY OF SERVICE ACROSS A SWITCHED BACKPLANE FOR MULTICAST PACKETS
USA	6970426	29-Nov-05	HADDOCK STEPHEN	RATE COLOR MARKER
USA	7619971	17-Nov-09	SIVA MEERA	METHODS, SYSTEMS, AND COMPUTER PROGRAM PRODUCTS FOR ALLOCATING EXCESS BANDWIDTH OF AN OUTPUT AMONG NETWORK USERS
USA	7719968	18-May-10	SWENSON ERIK	MULTI-PRIORITY MULTI-COLOR MARKERS FOR TRAFFIC METERING
USA	6954436	11-Oct-05	YIP MICHAEL	METHOD AND APPARATUS FOR SELECTING REDUNDANT ROUTERS USING TRACKING
USA	7581024	25-Aug-09	YIP MICHAEL	METHOD AND SYSTEM FOR INCREASING PARTICIPATION IN A STANDBYROUTER PROTOCOL
USA	7245619	17-Jul-07	GUAN TAO	METHOD AND APPARATUS FOR MANAGING ROUTES
USA	7724734	25-May-10	GROSSER DONALD B	METHODS, SYSTEMS, AND COMPUTER PROGRAM PRODUCTS FOR CONTROLLING UPDATING OF A LAYER 3 HOST TABLE BASED ON PACKET FORWA
USA	7843927	30-Nov-10	GROSSER DONALD B	METHODS, SYSTEMS, AND COMPUTER PROGRAM PRODUCTS FOR ROUTING PACKETS AT A MULTI-MODE LAYER 3 PACKET FORWARDING DEVICE
USA	7936764	3-May-11	KRISHNAN RAM	METHOD FOR OPTIMIZING IP ROUTE TABLE SIZE THROUGH IP ROUTE AGGREGATION
USA	7710993	4-May-10	BURTON III CHARLES F	PSEUDO WIRE PROCESSING IN A PACKET FORWARDING DEVICE
USA	8437359	7-May-13	BURTON III CHARLES F	PSEUDO WIRE PROCESSING IN A PACKET FORWARDING DEVICE

Schedule A

sf-3691750

<u>Jurisdiction</u>	<u>Patent No.</u>	<u>Issue Date</u>	<u>Inventor</u>	<u>Title</u>
USA	8331373	11-Dec-12	GROSSER DONALD B	METHODS, SYSTEMS, AND COMPUTER READABLE MEDIA FOR AUTOMATICALLY SELECTING BETWEEN INTERNET PROTOCOL SWITCHING MODES ON
USA	8660118	25-Feb-14	GROSSER DONALD B	METHODS, SYSTEMS, AND COMPUTER READABLE MEDIA FOR NEXT HOP SCALING
USA	8605726	10-Dec-13	GROSSER DONALD B	METHODS, SYSTEMS, AND COMPUTER READABLE MEDIA FOR NEXT HOP SCALING WITH LINK AGGREGATION
USA	7602721	13-Oct-09	TANGIRALA RAVI	METHODS AND SYSTEMS FOR FINE GRAIN BANDWIDTH ALLOCATION IN A SWITCHED NETWORK ELEMENT
USA	8055800	8-Nov-11	TIMOTHY BARZIL	ENFORCING HOST ROUTING SETTINGS ON A NETWORK DEVICE
USA	7245629	17-Jul-07	YIP MICHAEL	METHOD AND APPARATUS FOR A CONTROL COMMUNICATION CHANNEL IN A PACKET-FORWARDING DEVICE
USA	7334048	19-Feb-08	GUAN TAO	METHOD AND APPARATUS FOR FAST ROUTE TABLE UPDATE
USA	7646773	12-Jan-10	NA, JING	FORWARDING DATABASE IN A NETWORK SWITCH DEVICE
USA	7580409	25-Aug-09	SWENSON ERIK R	SYSTEM FOR AND METHOD OF COMMUNICATING CONTROL INFORMATION BETWEEN ENTITIES INTERCONNECTED BY BACKPLANE CONNECTIONS
USA	7292591	6-Nov-07	PARKER DAVID K	PACKET PROCESSING SYSTEM ARCHITECTURE AND METHOD
USA	7675915	9-Mar-10	PARKER DAVID K	PACKET PROCESSING SYSTEM ARCHITECTURE AND METHOD
USA	7613209	3-Nov-09	NGUYEN KHA H	SYSTEM AND METHOD FOR EGRESS PACKET MARKING

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USA	7668969	23-Feb-10	KASHYAP PRAKASH M	RULE STRUCTURE FOR PERFORMING NETWORK SWITCH FUNCTIONS
USA	7860006	28-Dec-10	KASHYAP PRAKASH M	INTEGRATED METHODS OF PERFORMING NETWORK SWITCH FUNCTIONS
USA	8059658	15-Nov-11	ROVNER EDWARD J	METHOD AND SYSTEM FOR AUTOMATIC EXPANSION AND CONTRACTION OF IP HOST FORWARDING DATABASE
USA	7903666	8-Mar-11	KUMAR DILIP	METHOD AND SYSTEM FOR COMPRESSING ROUTE ENTRIES IN A ROUTE TABLE BASED ON EQUAL-COST MULTI-PATHS (ECMP) MATCHES
USA	8204070	19-Jun-12	GHAIBEH GIHAD	BACKPLANE DEVICE FOR NON-BLOCKING STACKABLE SWITCHES
USA	7983192	19-Jul-11	GHAIBEH GIHAD	METHOD, APPARATUS AND SYSTEM FOR A STACKABLE ETHERNET SWITCH
USA	8208418	26-Jun-12	GROSSER JR DONALD B	METHODS, SYSTEMS, AND COMPUTER READABLE MEDIA FOR CONSERVING MULTICAST PORT LIST RESOURCES IN AN INTERNET PROTOCOL (IP) PACKET FORWARDING DEVICE
USA	8369344	5-Feb-13	KRISHNAN RAM	CUSTOMER ISOLATION USING A COMMON FORWARDING DATABASE WITH HARDWARE LEARNING SUPPORT
USA	8160074	17-Apr-12	KRISHNAN RAM	OPTIMAL READING OF FORWARDING DATABASE FROM HARDWARE
USA	8442030	14-May-13	DENNISON LARRY R	SOFTWARE CONTROL PLANE FOR SWITCHES AND ROUTERS
USA	8000344	16-Aug-11	FRICK J KEVIN	METHODS, SYSTEMS, AND COMPUTER PROGRAM PRODUCTS FOR TRANSMITTING AND RECEIVING LAYER 2 FRAMES ASSOCIATED WITH DIFFERENT
USA	8705532	22-Apr-14	GROSSER DONALD B	METHODS, SYSTEMS, AND COMPUTER PROGRAM PRODUCTS FOR SELECTIVE LAYER 2 PORT BLOCKING USING LAYER 2 SOURCE ADDRESSES

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USA	7733899	8-Jun-10	GROSSER DONALD B	METHODS, SYSTEMS, AND COMPUTER PROGRAM PRODUCTS FOR RATE-BASED DISTRIBUTION OF LAYER 2 PACKETS FOR IN-LINE PROCESSING
USA	7126923	24-Oct-06	YANG XUGUANG	METHOD AND SYSTEM FOR INTER-DOMAIN LOOP PROTECTION USING A HIERARCHY OF LOOP RESOLVING PROTOCOLS
USA	7154861	26-Dec-06	MERCHANT, SHEHZAD T	METHOD AND SYSTEM FOR A VIRTUAL LOCAL AREA NETWORK TO SPAN MULTIPLE LOOP FREE NETWORK TOPOLOGY DOMAINS.
USA	7269135	11-Sep-07	FRICK JOHN KEVIN	METHODS AND SYSTEMS FOR PROVIDING REDUNDANT CONNECTIVITY ACROSS A NETWORK USING A TUNNELING PROTOCOL
USA	7672228	2-Mar-10	SENEVIRATHNE TISSA	SYSTEM AND METHOD FOR NETWORK LOOP DETECTION AND RECOVERY
USA	7752338	6-Jul-10	LU ZIHONG	RING TOPOLOGY DISCOVERY
USA	8583833	12-Nov-13	LU ZIHONG	RING TOPOLOGY DISCOVERY
USA	8159936	17-Apr-12	KRISHNAN RAM	NETWORK CONVERGENCE IN RESPONSE TO A TOPOLOGY CHANGE
USA	8279874	2-Oct-12	LU ZIHONG	SELF-CONFIGURING NETWORK
USA	7657619	2-Feb-10	YANG XUGUANG	METHOD AND SYSTEM FOR MAINTAINING A LOOP-FREE TOPOLOGY ACROSS MULTIPLE SPANNING TREES IN A VIRTUAL LOCAL AREA NETWORK
USA	7817633	19-Oct-10	PARKER DAVID K	METHOD OF PROVIDING VIRTUAL ROUTER FUNCTIONALITY THROUGH ABSTRACTED VIRTUAL IDENTIFIERS
USA	7822033	26-Oct-10	PARKER DAVID K	MAC ADDRESS DETECTION DEVICE FOR VIRTUAL ROUTERS
USA	7558273	7-Jul-09	GROSSER DONALD B	METHODS AND SYSTEMS FOR ASSOCIATING AND TRANSLATING VIRTUAL LOCAL AREA NETWORK (VLAN) TAGS

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USA	7499679	3-Mar-09	YANG JAMES	WIRELESS NETWORK ACCESS POINT AND SENSOR
USA	7310664	18-Dec-07	MERCHANT SHEHZAD T	UNIFIED ADAPTIVE NETWORK ARCHITECTURE
USA	6597584	22-Jul-03	RAY, B	EJECTOR ASSEMBLY
USA	7321926	22-Jan-08	ZHANG HUI	METHOD OF AND SYSTEM FOR ALLOCATING RESOURCES TO RESOURCE REQUESTS
USA	7448045	4-Nov-08	LU ZIHONG	METHOD AND APPARATUS TO EXTEND A PROGRAM
USA	7447777	4-Nov-08	SINGH AHUJA RATINDER	METHOD OF AND SYSTEM FOR ALLOCATING RESOURCES TO RESOURCE REQUESTS BASED ON APPLICATION OF PERSISTENCE POLICIES
USA	7584262	1-Sep-09	SINGH AHUJA RATINDER	METHOD OF AND SYSTEM FOR ALLOCATING RESOURCES TO RESOURCE REQUESTS BASED ON APPLICATION OF PERSISTENCE POLICIES
USA	7814204	12-Oct-10	SINGH AHUJA RATINDER	METHOD OF AND SYSTEM FOR ALLOCATING RESOURCES TO RESOURCE REQUESTS BASED ON APPLICATION OF PERSISTENCE POLICIES
USA	8412838	2-Apr-13	SINGH AHUJA RATINDER	METHOD OF AND SYSTEM FOR ALLOCATING RESOURCES TO RESOURCE REQUESTS BASED ON APPLICATION OF PERSISTENCE POLICIES
USA	7298746	20-Nov-07	SINGH AHUJA RATINDER	METHOD OF AND SYSTEM FOR ALLOCATING RESOURCES TO RESOURCE REQUESTS BASED ON APPLICATION OF PERSISTENCE POLICIES
USA	8560693	15-Oct-13	SINGH AHUJA RATINDER	METHOD OF AND SYSTEM FOR ALLOCATING RESOURCES TO RESOURCE REQUESTS BASED ON APPLICATION OF PERSISTENCE POLICIES
USA	7660894	9-Feb-10	CARRIE SUSAN E	CONNECTION PACER AND METHOD FOR PERFORMING CONNECTION PACING IN A NETWORK OF SERVERS AND CLIENTS USING FIFO BUFFERS
USA	7817549	19-Oct-10	KASRALIKAR RAHUL	FLEXIBLE FLOW-AGING MECHANISM

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USA	6034957	7-Mar-00	HADDOCK, SR	SLICED COMPARISON ENGINE ARCHITECTURE AND METHOD FOR A LAN SWITCH
USA	7185216	27-Feb-07	BHANDARI NITIN	SOURCE SYNCHRONOUS DATA INTERFACE
USA	7047515	16-May-06	VITEK; CLARK	METHOD FOR SELECTING AND PLACING BYPASS CAPACITORS ON MULTI-LAYER PRINTED CIRCUIT BOARDS
USA	7366935	29-Apr-08	SWENSON ERIK R	HIGH SPEED BUS WITH ALIGNMENT, RE-TIMING AND BUFFER UNDERFLOW/OVERFLOW DETECTION ENHANCEMENTS
USA	7546480	9-Jun-09	SWENSON ERIK R	HIGH SPEED BUS WITH ALIGNMENT, RE-TIMING AND BUFFER UNDERFLOW/OVERFLOW DETECTION ENHANCEMENTS
USA	8464093	11-Jun-13	SWENSON ERIK R	MEMORY ARRAY ERROR CORRECTION
USA	6956816	18-Oct-05	ALEXANDER CEDELL A	FAULT TOLERANT AUTOMATIC PROTECTION SWITCHING FOR DISTRIBUTED ROUTERS
USA	7272672	18-Sep-07	SWENSON ERIK R	HIGH SPEED BUS WITH FLOW CONTROL AND EXTENDED BURST ENHANCEMENTS
USA	7724669	25-May-10	SWENSON ERIK R	HIGH SPEED BUS WITH FLOW CONTROL AND EXTENDED BURST ENHANCEMENTS
USA	8117657	14-Feb-12	ELROD CRAIG T	DETECTION AND MITIGATION OF RAPIDLY PROPAGATING THREATS FROM P2P, IRC AND GAMING
USA	6980550	27-Dec-05	YIP, MICHAEL	METHOD AND APPARATUS FOR SERVER LOAD BALANCING
USA	7400647	15-Jul-08	CIMINO DANIEL J	LOOK UP TABLE (LUT) FOR POINT-TO-POINT PROTOCOL IDENTIFICATION (PPP ID)
USA	7944942	17-May-11	CIMINO DANIEL J	LOOK UP TABLE (LUT) FOR POINT-TO-POINT PROTOCOL IDENTIFICATION (PPP ID)
USA	7552275	23-Jun-09	KRISHNAN RAM	METHOD OF PERFORMING TABLE LOOKUP OPERATION WITH TABLE INDEX THAT EXCEEDS CAM KEY SIZE

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USA	7908431	15-Mar-11	KRISHNAN RAM	METHOD OF PERFORMING TABLE LOOKUP OPERATION WITH TABLE INDEX THAT EXCEEDS CAM KEY SIZE
USA	8139583	20-Mar-12	BURTON III CHARLES F	COMMAND SELECTION IN A PACKET FORWARDING DEVICE
USA	7349228	25-Mar-08	RAY BRIAN J	EJECTOR ASSEMBLY FOR RACK-MOUNTED COMPUTING DEVICES
USA	7119280	10-Oct-06	RAY BRIAN J	SYSTEM AND METHOD FOR CABLE MANAGEMENT ON RACK MOUNTED INSTALLATIONS
USA	6963311	8-Nov-05	ENNS FREDERICK	APPARATUS AND METHOD FOR LOCKING AN ANTENNA INTO POSITION
USA	7142509	28-Nov-06	ROVNER EDWARD JOEL	METHOD AND APPARATUS PROVIDING FOR DELIVERY OF STREAMING MEDIA
USA	6907466	14-Jun-05	ALEXANDER JR CEDELL	METHODS AND SYSTEMS FOR EFFICIENTLY DELIVERING DATA TO A PLURALITY OF DESTINATIONS IN A COMPUTER NETWORK
USA	7773507	10-Aug-10	KASRALIKAR RAHUL	AUTOMATIC TIERED SERVICES BASED ON NETWORK CONDITIONS
USA	7835348	16-Nov-10	KASRALIKAR RAHUL	METHOD AND APPARATUS FOR DYNAMIC ANOMALY-BASED UPDATES TO TRAFFIC SELECTION POLICIES IN A SWITCH
USA	6023471	8-Feb-00	HADDOCK, S R	NETWORK INTERCONNECT DEVICE AND PROTOCOL FOR COMMUNICATING DATA AMONG PACKET FORWARDING DEVICES
USA	5974467	26-Oct-99	HADDOCK, S.	PROTOCOL FOR COMMUNICATING DATA BETWEEN PACKET FORWARDING DEVICES VIA AN INTERMEDIATE NETWORK INTERCONNECT DEVICE
USA	6714517	30-Mar-04	PAWAZ AYMAN	METHOD AND APPARATUS FOR INTERCONNECTION OF PACKET SWITCHES WITH GUARANTEED BANDWIDTH

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USA	6654374	25-Nov-03	AYMAN FAWAZ	METHOD AND APPARATUS TO REDUCE JITTER IN PACKET SWITCHED NETWORKS
USA	6711125	23-Mar-04	WALRAND JEAN	PROVISIONING NETWORKS FOR RELIABLE QUALITY OF SERVICE
USA	7046665	16-May-06	WALRAND JEAN	PROVISIONAL IP-AWARE VIRTUAL PATHS OVER NETWORKS
USA	6674760	6-Jan-04	WALRAND, JEAN	METHOD AND SYSTEM FOR IMPLEMENTING END-TO-END QOS IN PACKET-SWITCHED NETWORKS
USA	6781990	24-Aug-04	PURI RAHOUL	METHOD AND SYSTEM FOR MANAGING TRAFFIC IN A PACKET NETWORK ENVIRONMENT
USA	7580350	25-Aug-09	PARKER DAVID K	SYSTEM FOR DERIVING PACKET QUALITY OF SERVICE INDICATOR
USA	6970424	29-Nov-05	FAWAZ AYMAN	METHOD AND APPARATUS TO MINIMIZE CONGESTION IN A PACKET SWITCHED NETWORK
USA	7152124	19-Dec-06	PURI RAHOUL	METHOD AND SYSTEM FOR MAINTAINING TEMPORAL CONSISTENCY OF RESOURCES AND DATA IN A MULTIPLE-PROCESSOR PACKET SWITCH
USA	8072887	6-Dec-11	SIVA MEERA	METHODS, SYSTEMS, AND COMPUTER PROGRAM PRODUCTS FOR CONTROLLING ENQUEUEING OF PACKETS IN AN AGGREGATED QUEUE INCLUDING
USA	8295188	23-Oct-12	ELROD CRAIG T	VOIP SECURITY
USA	5978385	2-Nov-99	HADDOCK, S	REPEATER PROVIDING FOR DETERMINISTIC ACCESS IN A LAN UTILIZING THE CSMA/CD MEDIUM ACCESS METHOD
USA	5999538	7-Dec-99	HADDOCK, S.	METHOD AND APPARATUS FOR ARBITRATING DATA TRANSMISSION IN A CSMA/CD LAN
USA	5936962	10-Aug-99	HADDOCK, S	METHOD AND APPARATUS FOR PREDICTING AND CONTROLLING DATA TRANSMISSION IN A CSMA/CD LAN

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USA	6295299	25-Sep-01	HADDOCK STEPHEN R	DATA PATH ARCHITECTURE FOR A LAN SWITCH
USA	7130308	31-Oct-06	HADDOCK STEPHEN R	DATA PATH ARCHITECTURE FOR A LAN SWITCH
USA	8161270	17-Apr-12	PARKER DAVID K	PACKET DATA MODIFICATION PROCESSOR
USA	7822032	26-Oct-10	PARKER DAVID K	DATA STRUCTURES FOR SUPPORTING PACKET DATA MODIFICATION OPERATIONS
USA	7463628	9-Dec-08	PARKER DAVID K	PACKET DATA MODIFICATION PROCESSOR COMMAND INSTRUCTION SET
USA	7304996	4-Dec-07	SWENSON ERIK R	SYSTEM AND METHOD FOR ASSEMBLING A DATA PACKET
USA	7821931	26-Oct-10	SWENSON ERIK R	SYSTEM AND METHOD FOR ASSEMBLING A DATA PACKET
USA	7813348	12-Oct-10	GUPTA RAJARSHI	METHODS, SYSTEMS, AND COMPUTER PROGRAM PRODUCTS FOR KILLING PRIORITIZED PACKETS USING TIME-TO-LIVE VALUES TO PREVENT H
USA	7606263	20-Oct-09	PARKER DAVID K	PACKET PARSER
USA	7649879	19-Jan-10	PARKER DAVID K	METHOD OF EXTENDING DEFAULT FIXED NUMBER OF PROCESSING CYCLES IN PIPELINED PACKET PROCESSOR ARCHITECTURE
USA	7889750	15-Feb-11	PARKER DAVID K	METHOD OF EXTENDING DEFAULT FIXED NUMBER OF PROCESSING CYCLES IN PIPELINED PACKET PROCESSOR ARCHITECTURE
USA	7502374	10-Mar-09	PARKER DAVID K	SYSTEM FOR DERIVING HASH VALUES FOR PACKETS IN A PACKET PROCESSING SYSTEM
USA	7646770	12-Jan-10	PARKER DAVID K	SYSTEMS FOR SUPPORTING PACKET PROCESSING OPERATIONS
USA	8085779	27-Dec-11	PARKER DAVID K	SYSTEMS FOR SUPPORTING PACKET PROCESSING OPERATIONS
USA	7554978	30-Jun-09	PARKER DAVID K	SYSTEM FOR ACCESSING CONTENT-ADDRESSABLE MEMORY IN PACKET PROCESSOR
USA	7936687	3-May-11	PARKER DAVID K	SYSTEMS FOR STATISTICS GATHERING AND SAMPLING IN A PACKET PROCESSING SYSTEM

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USA	7522516	21-Apr-09	PARKER DAVID K	EXCEPTION HANDLING SYSTEM FOR PACKET PROCESSING SYSTEM
USA	7385984	10-Jun-08	PARKER DAVID K	PACKET PROCESSING SYSTEM ARCHITECTURE AND METHOD
USA	7822038	26-Oct-10	PARKER DAVID K	PACKET PROCESSING SYSTEM ARCHITECTURE AND METHOD
USA	7606249	20-Oct-09	SWENSON ERIK R	METHODS AND SYSTEMS FOR CACHING PACKETS TO BE WRITTEN TO OR READ FROM PACKET MEMORY
USA	7889658	15-Feb-11	BAUDER JAMES R	METHOD OF AND SYSTEM FOR TRANSFERRING OVERHEAD DATA OVER A SERIAL INTERFACE
USA	7372813	13-May-08	CIMINO DANIEL J	VIRTUAL LOAD BALANCING ACROSS A NETWORK LINK
USA	8499093	30-Jul-13	GROSSER DONALD B	METHODS, SYSTEMS, AND COMPUTER READABLE MEDIA FOR STATELESS LOAD BALANCING OF NETWORK TRAFFIC FLOWS
USA	8659993	25-Feb-14	LIM ARNIEL	METHODS, SYSTEMS, AND COMPUTER READABLE MEDIA FOR STATELESS LOAD BALANCING OF NETWORK TRAFFIC FLOWS
USA	7693158	6-Apr-10	CARRIE SUSAN E	METHODS AND SYSTEMS FOR SELECTIVELY PROCESSING VIRTUAL LOCAL AREA NETWORK (VLAN) TRAFFIC FROM DIFFERENT NETWORKS WHILE ALLOWING FLEXIBLE VLAN IDENTIFIERS ASSIGNMENT
USA	8724638	13-May-14	CARRIE SUSAN E	METHODS AND SYSTEMS FOR SELECTIVELY PROCESSING VIRTUAL LOCAL AREA NETWORK (VLAN) TRAFFIC FROM DIFFERENT NETWORKS WHILE ALLOWING FLEXIBLE VLAN IDENTIFIERS ASSIGNMENT
USA	7386309	10-Jun-08	JAIN VIPIN	METHOD AND SYSTEM FOR DISTRIBUTED WIRELESS ACCESS
USA	8707432	22-Apr-14	RATHI, MANISH M.	METHOD AND SYSTEM FOR DETECTING AND PREVENTING ACCESS INTRUSION IN A NETWORK

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USA	8751649	10-Jun-14	YIP, MICHAEL	PORT MANAGEMENT SYSTEM
USA	D512697	13-Dec-05	ENNS, FREDERICK	HOUSING FOR ELECTRONIC DEVICE
USA	D601551	6-Oct-09	RAY, BRIAN	WIRED/WIRELESS ACCESS POINT
USA	8751647	10-Jun-14	YIP, MICHAEL	METHOD AND APPARATUS FOR NETWORK LOGIN AUTHORIZATION
USA	8855124	7-Oct-14	HADDOCK, STEPHEN	FORWARDING INTER-SWITCH CONNECTION (ISC) FRAMES IN A NETWORK-TO-NETWORK INTERCONNECT TOPOLOGY
USA	8842684	23-Sep-14	HADDOCK, STEPHEN	FORWARDING INTER-SWITCH CONNECTION (ISC) FRAMES IN A NETWORK-TO-NETWORK INTERCONNECT TOPOLOGY
USA	8891533	18-Nov-14	GROSSER, DON	METHODS, SYSTEMS, AND APPARATUSES FOR DYNAMICALLY TAGGING VLANS
USA	8771009	8-Jul-14	MENG, ALICE	3 X 8 STACKED RJ45 CONNECTOR WITH INTEGRATED LEDS OPTION FOR 1U PRODUCT FORM FACTOR
USA	8924694	30-Dec-14	PARKER, DAVID	PACKET DATA MODIFICATION PROCESSOR
USA	8767549	1-Jul-14	KASHYAP, PRAKASH	INTEGRATED METHODS OF PERFORMING NETWORK SWITCH FUNCTIONS
USA	5365952	22-Nov-94	NOBLE, EDWARD J	HAIRCUTTING DEVICE METHOD AND APPARATUS FOR PREDICTING AND CONTROLLING DATA TRANSMISSION IN A CSMA/CD LAN
USA	9008091	14-Apr-15	GROSSER, DONALD B	METHODS, SYSTEMS, AND COMPUTER READABLE MEDIA FOR IMPROVED MULTICAST SCALING THROUGH POLICY BASED REDIRECTION
USA	5922046	13-JUL-99	WASHABAUGH DOUGLAS M	METHOD AND APPARATUS FOR AVOIDING CONTROL READS IN A NETWORK NODE
USA	6067563	23-MAY-00	WASHABAUGH DOUGLAS M	METHOD AND APPARATUS FOR AVOIDING CONTROL READS IN A NETWORK NODE

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USA	6249820	19-JUN-01	CULLEROT DAVID L	INTERNET PROTOCOL (IP) WORK GROUP ROUTING
USA	7222268	22-MAY-07	ZAIFFMAN ARTHUR L	SYSTEM RESOURCE AVAILABILITY MANAGER
USA	6301224	9-OCT-01	KONING G PAUL	NETWORK SWITCH WITH PANIC MODE
USA	6822966	23-NOV-04	PUTCHA, SIVARAMA	ALLOCATING BUFFERS FOR DATA TRANSMISSION IN A NETWORK COMMUNICATION DEVICE
USA	6317427	13-NOV-01	BROWN BENJAMIN J	METHOD AND APPARATUS FOR ADAPTIVE PORT BUFFERING
USA	6430194	6-AUG-02	TIFFANY WILLIAM J	METHOD AND APPARATUS FOR ARBITRATING BUS ACCESS AMONGST COMPETING DEVICES
USA	5910690	8-JUN-99	FRAZIER KEVIN M	HOTSWAPPABLE CHASSIS AND ELECTRONIC CIRCUIT CARDS
USA	6008550	28-DEC-99	FRAZIER KEVIN M	HOTSWAPPABLE CHASSIS AND ELECTRONIC CIRCUIT CARDS
USA	6754171	22-JUN-04	EDIN DEBORAH E	METHOD AND SYSTEM FOR DISTRIBUTED CLOCK FAILURE PROTECTION IN A PACKET SWITCHED NETWORK
USA	5963719	5-OCT-99	FITTE ELAINE H	TWO-PIN DISTRIBUTED ETHERNET BUS ARCHITECTURE
USA	5918040	29-JUN-99	JARVIS NEIL ALASDAIR	METHOD FOR MAINTAINING TIME SYNCHRONIZATION BETWEEN TWO PROCESSORS IN A NETWORK INTERFACE
USA	5894517	13-APR-99	MELARAGNI WILLIAM	HIGH-SPEED BACKPLANE BUS WITH LOW RF RADIATION
USA	5898694	27-APR-99	TIFFANY WILLIAM J	METHOD OF ROUND ROBIN BUS ARBITRATION
USA	6650639	18-NOV-03	GRIMES ANDREW	SECURE FAST PACKET SWITCH HAVING IMPROVED MEMORY UTILIZATION
USA	6125466	26-SEP-00	GAHAN RICHARD A	DRAM PARITY PROTECTION SCHEME
USA	6067557	23-MAY-00	HEGDE DINESH	METHOD AND SYSTEM FOR ALLOCATING CPU BANDWIDTH

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USA	6085215	4-JUL-00	TING DENNIS	SCHEDULING MECHANISM USING PREDETERMINED LIMITED EXECUTION TIME PROCESSING THREADS IN A COMMUNICATION NETWORK
USA	5954835	21-SEP-99	BERENT ANTHONY NEIL	CHECK SEQUENCE PRESERVATION EXTENDED ECC SYSTEM
USA	6425106	23-JUL-02	BERENT ANTHONY NEIL	
USA	6046982	4-APR-00	GRELLA ERNEST	METHOD AND APPARATUS FOR REDUCING DATA LOSS IN DATA TRANSFER DEVICES
USA	5968128	19-OCT-99	CHARNY ANNA	TRAFFIC CONTROL SYSTEM HAVING DISTRIBUTED RATE CALCULATION AND LINK BY LINK FLOW CONTROL
USA	7152242	19-DEC-06	DOUGLAS KEVIN	MODULAR SYSTEM FOR DETECTING, FILTERING AND PROVIDING NOTICE ABOUT ATTACK EVENTS ASSOCIATED WITH NETWORK SECURITY SYSTEM AND METHOD FOR DYNAMIC DISTRIBUTION OF INTRUSION SIGNATURES
USA	8347375	1-JAN-13	ROESE JOHN J	
USA	7581249	25-AUG-09	BUSSIERE RICHARD	DISTRIBUTED INTRUSION RESPONSE SYSTEM
USA	5796966	18-AUG-98	THOMAS ROBERT E	METHOD AND APPARATUS FOR DYNAMICALLY CONTROLLING DATA ROUTES THROUGH A NETWORK
USA	6081511	27-JUN-00	EDMONDSON WILLIAM A	LOAD SHARING FOR REDUNDANT NETWORKS
USA	6078949	20-JUN-00	QUINLAN UNA M	SCHEME FOR INTERLOCKING AND TRANSFERRING INFORMATION BETWEEN DEVICES IN A COMPUTER SYSTEM
USA	5781772	14-JUL-98	VARGHESE GEORGE	COMPRESSED PREFIX MATCHING DATABASE SEARCHING
USA	6014659	11-JAN-00	VARGHESE GEORGE	COMPRESSED PREFIX MATCHING DATABASE SEARCHING
USA	5920900	6-JUL-99	POOLE NIGEL T	HASH-BASED TRANSLATION METHOD AND APPARATUS WITH MULTIPLE LEVEL COLLISION RESOLUTION

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USA	6000008	7-DEC-99	SIMCOE ROBERT J	METHOD AND APPARATUS FOR MATCHING DATA ITEMS OF VARIABLE LENGTH IN A CONTENT ADDRESSABLE MEMORY
USA	7386605	10-JUN-08	SHAH HIMANSHU	METHODS AND APPARATUS FOR AUTOMATED EDGE DEVICE CONFIGURATION IN A HETEROGENEOUS NETWORK
USA	7529243	5-MAY-09	SODDER ARNOLD	APPARATUS AND METHOD FOR A VIRTUAL HIERARCHICAL LOCAL AREA NETWORK
USA	8040890	18-OCT-11	SODDER ARNOLD	APPARATUS AND METHOD FOR A VIRTUAL HIERARCHICAL LOCAL AREA NETWORK
USA	7401086	15-JUL-08	CHORAFAKIS DOMINIC	TRANSLATING CONFIGURATION FILES AMONG NETWORK DEVICES
USA	7690040	30-MAR-10	FRATTURA DAVID E	METHOD FOR NETWORK TRAFFIC MIRRORING WITH DATA PRIVACY
USA	8239960	7-AUG-12	FRATTURA DAVID E	METHOD FOR NETWORK TRAFFIC MIRRORING WITH DATA PRIVACY
USA	6041042	21-MAR-00	BUSSIERE RICHARD	REMOTE PORT MIRRORING SYSTEM AND METHOD THEREOF
USA	5940376	17-AUG-99	CLEMENTS BRUCE G	METHOD AND APPARATUS TO ESTABLISH A TAP-POINT IN A SWITCHED NETWORK
USA	6151324	21-NOV-00	BUSSIERE RICHARD	CONNECTION AGGREGATION IN SWITCHED COMMUNICATIONS NETWORKS
USA	6331983	18-DEC-01	ANDLAUER PHILLIP	MULTICAST SWITCHING
USA	5956335	21-SEP-99	HAWE WILLIAM R	MANY TO FEW GROUP ADDRESS TRANSLATION THROUGH A NETWORK BRIDGE
USA	6892309	10-MAY-05	RICHMOND, JAMES	CONTROLLING USAGE OF NETWORK RESOURCES BY A USER AT THE USER'S ENTRY POINT TO A COMMUNICATIONS NETWORK BASED ON AN IDENTITY OF THE USER

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USA	6990592	24-JAN-06	RICHMOND JAMES	CONTROLLING CONCURRENT USAGE OF NETWORK RESOURCES BY MULTIPLE USERS AT AN ENTRY POINT TO A COMMUNICATIONS NETWORK BASE
USA	5596575	21-JAN-97	POST DONALD L	AUTOMATIC NETWORK SPEED ADAPTER
USA	5838989	17-NOV-98	YANG HENRY S	COMMON INTERFACE FOR A NETWORK HAVING DIFFERENT COMMUNICATION MEDIA EMPLOYING A CARRIER SENSE MULTIPLE ACCESS WITH COL
USA	8191107	29-MAY-12	FRATTURA DAVIDE	SYSTEM AND METHOD FOR LOST CONTACT RESPONSE
USA	7580403	25-AUG-09	FRATTURA DAVIDE	STATUS TRANSMISSION SYSTEM AND METHOD
USA	7855972	21-DEC-10	PETTT STEVEN A	CREATING, MODIFYING AND STORING SERVICE ABSTRACTIONS AND ROLE ABSTRACTIONS REPRESENTING ONE OR MORE PACKET RULES
USA	5751971	12-MAY-98	CULLEROT DAVID L	INTERNET PROTOCOL (IP) WORK GROUP ROUTING
USA	5905723	18-MAY-99	ORAN DAVID R	SYSTEM FOR ACHIEVING SCALABLE ROUTER PERFORMANCE
USA	6510151	21-JAN-03	DIPIETRO JASON	PACKET FILTERING IN CONNECTION-BASED SWITCHING NETWORKS
USA	6067300	23-MAY-00	SEAMAN ANTHONY W	OPTIMIZING THE TRANSFER OF DATA PACKETS BETWEEN LANS
USA	6147976	14-NOV-00	HARPER JOHN ANTHONY	FAST NETWORK LAYER PACKET FILTER
USA	5844902	1-DEC-98	PERLMAN RADIA JOY	ASSIGNING MULTIPLE PARALLEL BRIDGE NUMBERS TO BRIDGES
USA	6567410	20-MAY-03	PERLMAN RADIA JOY	ASSIGNING MULTIPLE PARALLEL BRIDGE NUMBERS TO BRIDGES HAVING THREE OR MORE PORTS
USA	8023521	20-SEP-11	WOO LEON K	METHODS AND APPARATUS FOR DIFFERENTIATED SERVICES OVER A PACKET-BASED NETWORK

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USA	8819213	26-AUG-14	GRAHAM RICHARD	SYSTEM, METHOD AND APPARATUS FOR TRAFFIC MIRROR SETUP, SERVICE AND SECURITY IN COMMUNICATION NETWORKS
USA	6198751	6-MAR-01	FRAZIER KEVIN M	MULTI-PROTOCOL PACKET TRANSLATOR
USA	6449279	10-SEP-02	BUSSIERE RICHARD	AGGREGATION OF DATA FLOWS OVER A PRE-ESTABLISHED PATH TO REDUCE CONNECTIONS
USA	7720076	18-MAY-10	DOBBINS KURT	DISTRIBUTED CONNECTION-ORIENTED SERVICES FOR SWITCHED COMMUNICATION NETWORKS
USA	8023515	20-SEP-11	DOBBINS KURT	DISTRIBUTED CONNECTION-ORIENTED SERVICES FOR SWITCHED COMMUNICATION NETWORKS
USA	8462794	11-JUN-13	DOBBINS KURT	DISTRIBUTED CONNECTION-ORIENTED SERVICES FOR SWITCHED COMMUNICATION NETWORKS
USA	5684800	4-NOV-97	ANDLAUER PHILLIP	METHOD FOR ESTABLISHING RESTRICTED BROADCAST GROUPS IN A SWITCHED NETWORK
USA	5825772	20-OCT-98	GRANT THOMAS A	DISTRIBUTED CONNECTION-ORIENTED SERVICES FOR SWITCHED COMMUNICATIONS NETWORKS
USA	5946308	31-AUG-99	ANDLAUER PHIL	METHOD FOR ESTABLISHING RESTRICTED BROADCAST GROUPS IN A SWITCHED NETWORK
USA	6147995	14-NOV-00	ANDLAUER PHIL	METHOD FOR ESTABLISHING RESTRICTED BROADCAST GROUPS IN A SWITCHED NETWORK
USA	5963556	5-OCT-99	BASSETT JOHN	DEVICE FOR PARTITIONING PORTS OF A BRIDGE INTO GROUPS OF DIFFERENT VIRTUAL LOCAL AREA NETWORKS
USA	6128665	3-OCT-00	ITURRALDE CAROL E	PORT BASED DEFAULT VIRTUAL LOCAL AREA NETWORK
USA	6469987	22-OCT-02	RUHSINGHANI ANIL G	VIRTUAL LOCAL AREA NETWORKS WITH TRUNK STATIONS
USA	6526052	25-FEB-03	YANG HENRY S	VIRTUAL LOCAL AREA NETWORKS HAVING RULES OF PRECEDENCE
USA	6560236	6-MAY-03	BASSETT JOHN	VIRTUAL LANS

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USA	6122281	19-SEP-00	AUGUSTA STEPHEN D	METHOD AND APPARATUS FOR TRANSMITTING LAN DATA OVER A SYNCHRONOUS WIDE AREA NETWORK
USA	5870386	9-FEB-99	PERLMAN RADIA JOY	METHOD AND APPARATUS FOR TRANSPARENTLY BRIDGING TRAFFIC ACROSS WIDE AREA NETWORKS
USA	7450940	11-NOV-08	MYERS, ROBERT	WIRELESS NETWORK SYSTEM AND METHOD
USA	7685295	23-MAR-10	MYERS, ROBERT	WIRELESS LOCAL AREA COMMUNICATION NETWORK SYSTEM AND METHOD
USA	7945945	17-MAY-11	GRAHAM RICHARD	SYSTEM AND METHOD FOR ADDRESS BLOCK ENHANCED DYNAMIC NETWORK POLICY MANAGEMENT
USA	7526541	28-APR-09	ROESE JOHN J	SYSTEM AND METHOD FOR DYNAMIC NETWORK POLICY MANAGEMENT
USA	7739372	15-JUN-10	ROESE JOHN J	SYSTEM AND METHOD FOR DYNAMIC NETWORK POLICY MANAGEMENT
USA	7936770	3-MAY-11	FRAATTURA DAVIDE	METHOD AND APPARATUS OF VIRTUAL CLASS OF SERVICE AND LOGICAL QUEUE REPRESENTATION THROUGH NETWORK TRAFFIC
USA	6711171	23-MAR-04	GRANT THOMAS A	DISTRIBUTED CONNECTION-ORIENTED SERVICES FOR SWITCHED COMMUNICATIONS NETWORKS
USA	7480917	20-JAN-09	RICHMOND JAMES P	USER INTERFACE FOR EDITING OBJECTS OF A NETWORK OBJECT DATABASE
USA	7756544	13-JUL-10	GRAHAM RICHARD W	POWER CONTROLLED NETWORK DEVICES FOR SECURITY AND POWER CONSERVATION
USA	8086232	27-DEC-11	KRISHNAN VENKATRAMAN	TIME SYNCHRONIZED WIRELESS METHOD AND OPERATIONS
USA	6014409	11-JAN-00	CURTIS ROBERT	PASSIVE ANALOG FILTER FOR NETWORK INTERFACE
USA	6044121	28-MAR-00	POOLE NIGEL T	METHOD AND APPARATUS FOR RECOVERY OF TIME SKEWED DATA ON A PARALLEL BUS

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USA	6061737	9-MAY-00	FITE ELAINE H	TWO-PIN DISTRIBUTED ETHERNET BUS ARCHITECTURE
USA	5966546	12-OCT-99	ROSS THEODORE L	METHOD AND APPARATUS FOR PERFORMING TX RAW CELL STATUS REPORT FREQUENCY AND INTERRUPT FREQUENCY MITIGATION IN A NETWORK
USA	6685498	3-FEB-04	SCHHEELER SCOTT	LOGIC ANALYZER TESTING METHOD AND CONFIGURATION AND INTERFACE ASSEMBLY FOR USE THEREWITH
USA	7093072	15-AUG-06	GREGORY HASKINS	METHODS FOR IMPROVED DATA CACHING
USA	6072772	6-JUN-00	KRISHNA PATTABHIRAMA	METHOD FOR PROVIDING BANDWIDTH AND DELAY GUARANTEES IN A CROSSBAR SWITCH WITH SPEEDUP
USA	6563837	13-MAY-03	PATEL NAIMISH S	ARBITRATION METHOD AND APPARATUS FOR A NON-BLOCKING SWITCH
USA	6865154	8-MAR-05	CHARNY, ANNA	METHOD AND APPARATUS FOR PROVIDING BANDWIDTH AND DELAY GUARANTEES IN COMBINED INPUT-OUTPUT BUFFERED CROSSBAR
USA	5546377	13-AUG-96	OZVEREN CUNEYTM	EFFICIENT DISTRIBUTED METHOD FOR COMPUTING MAX-MIN FAIR RATES OF A LIMITED RESOURCE IN ATM NETWORKS
USA	5668951	16-SEP-97	RAMAKRISHNAN K K	AVOIDING CONGESTION SYSTEM FOR REDUCING TRAFFIC LOAD ON SELECTED END SYSTEMS WHICH UTILIZING ABOVE THEIR ALLOCATED FAIR
USA	5675742	7-OCT-97	RAMAKRISHNAN K K	SYSTEM FOR SETTING CONGESTION AVOIDANCE FLAG AT INTERMEDIATE NODE TO REDUCE RATES OF TRANSMISSION ON SELECTED END SYSTEM
USA	5953342	14-SEP-99	SCOTT JAMES	METHOD FOR DYNAMICALLY PROVIDING END-TO-END CONNECTIONS IN AN ASYNCHRONOUS TRANSFER MODE (ATM) NETWORK

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USA	5745697	28-APR-98	RAMAKRISHNAN K K	NETWORK FLOW CONTROL HAVING INTERMEDIATE NODE SCALABILITY TO A LARGE NUMBERS OF VIRTUAL CIRCUITS
USA	5867480	2-FEB-99	TANAKA KOICHI	METHOD AND APPARATUS FOR CONTROLLING CONGESTION IN A NETWORK NODE
USA	5956322	21-SEP-99	CHARNEY ANNA	IMPROVED PHANTOM FLOW CONTROL METHOD AND APPARATUS
USA	5978357	2-NOV-99	CHARNY, ANNA	PHANTOM FLOW CONTROL METHOD AND APPARATUS WITH IMPROVED STABILITY
USA	6047328	4-APR-00	RAMAKRISHNAN, K K	METHOD AND APPARATUS FOR ALLOCATING A TRANSMISSION RATE TO SOURCE END NODES IN A NETWORK
USA	6101170	8-AUG-00	GRIMES, ANDREW	SECURE FAST PACKET SWITCH HAVING IMPROVED MEMORY UTILIZATION
USA	6112251	29-AUG-00	RUHSINGHANI, ANIL G	VIRTUAL LOCAL NETWORK FOR SENDING MULTICAST TRANSMISSIONS TO TRUNK STATIONS
USA	5987522	16-NOV-99	RUHSINGHANI, ANIL G	PRIVILEGED VIRTUAL LOCAL AREA NETWORKS
USA	5553085	3-SEP-96	SHAND, IAN M C	METHOD AND APPARATUS FOR GENERATING A 48-BIT FRAME CHECK SEQUENCE
USA	6850490	1-FEB-05	WOO, LEON K	HIERARCHICAL OUTPUT-QUEUED PACKET-BUFFERING SYSTEM AND METHOD
USA	8166151	24-Apr-12	TSILLAS, DEMETRIOS JAMES	METHOD AND APPARATUS FOR DETERMINING A SPANNING-TREE
USA	7457297	25-Nov-08	WOO, LEON K.	METHODS AND APPARATUS FOR DIFFERENTIATED SERVICES OVER A PACKET-BASED NETWORK
USA	6466997	15-Oct-02	ROSS, THEODORE L.	METHOD AND APPARATUS FOR PERFORMING TX RAW CELL STATUS REPORT FREQUENCY AND INTERRUPT FREQUENCY MITIGATION IN A NETWORK MODE

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USA	6418480	12-Jul-00	RUHSINGHANI, ANIL G.	COMMUNICATION PACKET INCLUDING A MULTICAST ADDRESS AND A DESTINATION ADDRESS DIFFERENT THAN AN EQUIVALENT
USA	5999980	12-Sep-96	TANAKA, KOICHI	APPARATUS AND METHOD FOR SETTING A CONGESTION INDICATE BIT IN AN BACKWARDS RM CELL ON AN ATM NETWORK
USA	5995995	12-Sep-96	THOMAS, ROBERT E.	APPARATUS AND METHOD FOR SCHEDULING VIRTUAL CIRCUIT DATA FOR DMA FROM A HOST MEMORY TO A TRANSMIT BUFFER MEMORY
USA	5970229	12-Sep-96	THOMAS, ROBERT E.	APPARATUS AND METHOD FOR PERFORMING LOOK-AHEAD SCHEDULING OF DMA TRANSFERS OF DATA FROM A HOST MEMORY TO A TRANSMIT BUFFER MEMORY
USA	5862206	12-Sep-96	THOMAS, ROBERT E.	METHOD AND APPARATUS FOR PERFORMING RAW CELL STATUS REPORT FREQUENCY MITIGATION ON TRANSMIT IN A NETWORK NODE
USA	5822612	12-Sep-96	THOMAS, ROBERT E.	APPARATUS AND METHOD FOR MANAGING SCHEDULE TABLE POINTERS
USA	5805808	9-Apr-97	HASANI, SANTOSH K.	REAL TIME PARSER FOR DATA PACKETS IN A COMMUNICATIONS NETWORK
USA	5978385	2-Nov-99	STEPHEN HADDOCK	REPEATER PROVIDING FOR DETERMINISTIC ACCESS IN A LAN UTILIZING THE CSMA/CD MEDIUM ACCESS METHOD
USA	7411901	12-Aug-08	CEDELL ALEXANDER	METHOD AND APPARATUS FOR DYNAMICALLY SELECTING TIMER DURATIONS
USA	9116660	25-Aug-15	CHRISTOPHER A. WIDMANN	MIDPLANE FOR ORTHOGONAL DIRECT CONNECTION
USA	9130826	8-Sep-15	MARKKUS NISPEL	SYSTEM AND RELATED METHOD FOR NETWORK MONITORING AND CONTROL BASED ON APPLICATIONS
USA	9143437	22-Sep-15	DONALD B. GROSSER	APPARATUS AND METHOD FOR MULTICAST DATA PACKET FORWARDING

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USA	9154372	6-Oct-15	JAMES P. RICHMOND	EDITING A PORTABLE, DYNAMIC AND ABSTRACT VIEW DEFINITION OF A NETWORK OBJECT DATABASE
USA	9166884	20-Oct-15	NICK G. SUIZO	NETWORK LOCATION SERVICE
USA	9172627	27-Oct-15	DAVID KIENDAL	DEVICE AND RELATED METHOD FOR DYNAMIC TRAFFIC MIRRORING
USA	9189317	17-Nov-15	VENKADESAN MARIMUTHU	SOFTWARE SUSTAINING SYSTEM
USA	9230213	5-Jan-16	MICHAEL RASH	DEVICE AND RELATED METHOD FOR SCORING APPLICATIONS RUNNING ON A NETWORK
USA	9252548	2-Feb-16	ALICE MENG	HIGH DENSITY NETWORKING COMPONENT FOR I U PRODUCT FORM FACTOR AND ASSOCIATED RACK SYSTEM
USA	9256636	9-Feb-16	MICHAEL RASH	DEVICE AND RELATED METHOD FOR APPLICATION IDENTIFICATION
USA	9385942	5-Jul-16	SHANKARA RAMAMURTHY	METHODS, SYSTEMS, AND COMPUTER READABLE MEDIA FOR PROVIDING N-NODE MULTI-SWITCH LINK AGGREGATION GROUPS (MLAGs)
USA	9391803	17-Nov-15	JIGNESH J. PATEL	CONNECTION STATE-BASED LONG TERM EVOLUTION STEERING OF ROAMING
USA	9407455	2-Aug-16	SUNIL P. SHAH	REDUNDANT ETHERNET AUTOMATIC PROTECTION SWITCHING ACCESS TO VIRTUAL PRIVATE LAN SERVICES
USA	9455934	27-Sep-16	STEPHEN R. HADDOCK	FORWARDING INTER-SWITCH CONNECTION (ISC) FRAMES IN A NETWORK-TO-NETWORK INTERCONNECT TOPOLOGY
USA	6421731	2002-07-16	FRANK D. CIOTTI, JR. WILLIAM E. BELLER DANIEL G. WALL	DYNAMIC NEXT HOP ROUTING PROTOCOL
USA	7653033	2010-01-26	ROBERT E. BEACH HEINER SCHWEDE	INFRASTRUCTURE FOR WIRELESS LANS
USA	8687610	2014-04-01	ROBERT E. BEACH HEINER SCHWEDE	INFRASTRUCTURE FOR WIRELESS LANS

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USA	6385442	2002-05-07	HOAI VU TOAN XUAN VU	MULTIPHASE RECEIVER AND OSCILLATOR
USA	6259898	2001-07-10	DANIEL E. LEWIS	MULTI-COMMUNICATION ACCESS POINT
USA	6393261	2002-05-21	DANIEL E. LEWIS	MULTI-COMMUNICATION ACCESS POINT
USA	6600734	2003-07-29	ALEX GERBERT SAROSH VESUNA DAVID P. GOREN	APPARATUS FOR INTERFACING A WIRELESS LOCAL NETWORK AND A WIRED VOICE TELECOMMUNICATIONS SYSTEM
USA	7693101	2010-04-06	ALEX GERBERT SAROSH VESUNA DAVID P. GOREN	APPARATUS FOR INTERFACING A WIRELESS LOCAL NETWORK AND WIRED VOICE TELECOMMUNICATION SYSTEM
USA	6442507	2002-08-27	ROGER R SKIDMORE THEODORE S RAPPAPORT	SYSTEM FOR CREATING A COMPUTER MODEL AND MEASUREMENT DATABASE OF A WIRELESS COMMUNICATION NETWORK
USA	6876951	2005-04-05	ROGER R SKIDMORE THEODORE S RAPPAPORT	SYSTEM FOR CREATING A COMPUTER MODEL AND MEASUREMENT DATABASE OF A WIRELESS COMMUNICATION NETWORK
USA	7096160	2006-08-22	ROGER R SKIDMORE THEODORE S RAPPAPORT	SYSTEM AND METHOD FOR MEASURING AND MONITORING WIRELESS NETWORK PERFORMANCE IN CAMPUS AND INDOOR ENVIRONMENTS
USA	6526506	2003-02-25	DANIEL E LEWIS	MULTI-LEVEL ENCRYPTON ACCESS POINT FOR WIRELESS NETWORK
USA	6453159	2002-09-17	DANIEL E LEWIS	MULTI-LEVEL ENCRYPTON SYSTEM FOR WIRELESS NETWORK
USA	6694430	2004-02-17	CHRIS ZEGELIN SAROSH VESUNA	DATA ENCRYPTION INTEGRATED CIRCUIT FOR WITH ON-BOARD DUAL-USE MEMORY
USA	6317599	2001-11-13	THEODORE S RAPPAPORT ROGER R SKIDMORE	METHOD AND SYSTEM FOR AUTOMATED OPTIMIZATION OF ANTENNA POSITIONING IN 3-D
USA	7035642	2006-04-25	THEODORE S RAPPAPORT ROGER R SKIDMORE	METHOD AND SYSTEM FOR ANALYSIS, DESIGN AND OPTIMIZATION OF COMMUNICATIONS NETWORK
USA	7155228	2006-12-26	THEODORE S RAPPAPORT ROGER R SKIDMORE	METHOD AND SYSTEM FOR ANALYSIS, DESIGN AND OPTIMIZATION OF COMMUNICATIONS NETWORK

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USA	6493679	2002-12-10	THEODORE S RAPPAPORT ROGER R SKIDMORE	METHOD AND SYSTEM FOR MANAGING A REAL TIME BILL OF MATERIALS
USA	7596518	2009-09-29	THEODORE S RAPPAPORT ROGER R SKIDMORE	METHOD AND SYSTEM FOR GENERATION A REAL TIME BILL OF MATERIALS AND EVALUATING NETWORK PERFORMANCE
USA	6850946	2005-02-01	THEODORE S RAPPAPORT ROGER R SKIDMORE	METHOD AND SYSTEM FOR DEVELOPING INPUT WITH A BUILDING DATABASE MANIPULATOR
USA	6721769	2004-04-13	THEODORE S RAPPAPORT ROGER R SKIDMORE	METHOD AND SYSTEM FOR DEVELOPING INPUT WITH A BUILDING DATABASE MANIPULATOR
USA	7711687	2010-05-04	THEODORE S RAPPAPORT ROGER R SKIDMORE	METHOD AND SYSTEM FOR DEVELOPING INPUT WITH A BUILDING DATABASE MANIPULATOR
USA	6499006	2002-12-24	THEODORE S RAPPAPORT ROGER R SKIDMORE	SYSTEM FOR THE THREE DIMENSIONAL DISPLAY OF WIRELESS COMMUNICATION SYSTEM PERFORMANCE
USA	7299168	2007-11-20	THEODORE S RAPPAPORT ROGER R SKIDMORE	SYSTEM FOR THE THREE DIMENSIONAL DISPLAY OF WIRELESS COMMUNICATION SYSTEM PERFORMANCE
USA	7570929	2009-08-04	MICHAEL L. TROMPOWER	802.11 NETWORKS USING DYNAMIC POWER CONTROL FOR RF TRANSMISSION
USA	7492248	2009-02-17	RONALD BJORKLAND RICHARD WATSON RAJ BRIDGELALL NARAYAN NAMBUDDIRI CHARLES FUREDY WILLIAM DEROCHEY	MULTI-TIER WIRELESS COMMUNICATIONS ARCHITECTURE, APPLICATIONS, AND METHODS
USA	7126926	2006-10-24	RONALD BJORKLAND RAJ BRIDGELALL WILLIAM DEROCHEY CHARLES FUREDY NARAYAN NAMBUDDIRI RICHARD WATSON	MULTI-TIER WIRELESS COMMUNICATIONS ARCHITECTURE, APPLICATIONS, AND METHODS

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USA	7339905	2008-03-04	RONALD BJORKLAND RAJ BRIDGELALL WILLIAM DEROUCHHEY CHARLES FUREDY NARAYAN NAMBUDIRI RICHARD WATSON	MULTI-TIER WIRELESS COMMUNICATIONS ARCHITECTURE, APPLICATIONS, AND METHODS
USA	7173922	2007-02-06	ROBERT E. BEACH	MULTIPLE WIRELESS LOCAL AREA NETWORKS OCCUPYING OVERLAPPING PHYSICAL SPACES
USA	7173923	2007-02-06	ROBERT E. BEACH	SECURITY IN MULTIPLE WIRELESS LOCAL AREA NETWORKS
USA	7386298	2008-06-10	ROBERT E. BEACH	METHOD AND APPARATUS FOR ROAMING ON A WIRELESS NETWORK
USA	8050240	2011-11-01	ROBERT E. BEACH	MULTIPLE WIRELESS LOCAL AREA NETWORKS OCCUPYING OVERLAPPING PHYSICAL SPACES
USA	8391256	2013-03-05	ROBERT E. BEACH	A RF PORT FOR MULTIPLE WIRELESS LOCAL AREA NETWORKS
USA	8699473	2014-04-15	ROBERT E. BEACH	A CELL CONTROLLER FRO MULTIPLE WIRELESS LOCAL AREA NETWORKS
USA	8498278	2013-07-30	ROBERT E. BEACH	A SYSTEM FOR MULTIPLE WIRELESS LOCAL AREA NETWORKS
USA	8699474	2014-04-15	ROBERT E. BEACH	SYSTEM WITH A CELL CONTROLLER ADAPTED TO PERFORM A MANAGEMENT FUNCTION
USA	8027320	2011-09-27	ROBERT E. BEACH	WIRELESS LOCAL AREA NETWORKS
USA	7173922 C1	2011-03-08	ROBERT E. BEACH	MULTIPLE WIRELESS LOCAL AREA NETWORKS OCCUPYING OVERLAPPING PHYSICAL SPACES
USA	7173923 C1	2010-04-13	ROBERT E. BEACH	SECURITY IN MULTIPLE WIRELESS LOCAL AREA NETWORKS
USA	6411608	2002-06-25	JACOB SHARONY	METHOD AND APPARATUS FOR VARIABLE POWER CONTROL IN WIRELESS COMMUNICATIONS SYSTEMS
USA	6404772	2002-06-11	ROBERT E. BEACH JASON T HARRIS DAVID MONTGOMERY WANDA SEALANDER	VOICE AND DATA WIRELESS COMMUNICATIONS NETWORK AND METHOD

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USA	8660061	2014-02-25	ROBERT E. BEACH JASON T HARRIS DAVID MONTGOMERY WANDA SEALANDER	VOICE AND DATA WIRELESS COMMUNICATIONS NETWORK AND METHOD
USA	8149796	2012-04-03	ROBERT E. BEACH JASON T HARRIS DAVID MONTGOMERY WANDA SEALANDER	VOICE AND DATA WIRELESS COMMUNICATIONS NETWORK AND METHOD
USA	8189542	2012-05-29	ROBERT E. BEACH JASON T HARRIS DAVID MONTGOMERY WANDA SEALANDER	VOICE AND DATA WIRELESS COMMUNICATIONS NETWORK AND METHOD
USA	6971063	2005-11-29	THEODORE S RAPPAPORT BRIAN GOLD ROGER R SKIDMORE	SYSTEM, METHOD AND APPARATUS FOR PORTABLE DESIGN, DEPLOYMENT, TEST AND OPTIMIZATION OF A COMMUNICATION NETWORK
USA	7246045	2007-07-17	THEODORE S RAPPAPORT ROGER R SKIDMORE BRIAN GOLD	SYSTEM AND METHOD FOR EFFICIENTLY VISUALIZING AND COMPARING COMMUNICATION NETWORK SYSTEM PERFORMANCE
USA	7286971	2007-10-23	THEODORE S RAPPAPORT ROGER R SKIDMORE BRIAN GOLD	SYSTEM AND METHOD FOR EFFICIENTLY VISUALIZING AND COMPARING COMMUNICATION NETWORK SYSTEM PERFORMANCE
USA	7085697	2006-08-01	THEODORE S RAPPAPORT ROGER R SKIDMORE ERIC S REIFSNIDER	METHOD AND SYSTEM FOR DESIGNING OR DEPLOYING A COMMUNICATIONS NETWORK WHICH CONSIDERS COMPONENT ATTRIBUTES
USA	7096173	2006-08-22	THEODORE S RAPPAPORT ROGER R SKIDMORE	METHOD AND SYSTEM FOR DESIGNING OR DEPLOYING A COMMUNICATIONS NETWORK WHICH ALLOWS SIMULTANEOUS SELECTION OF MULTIPLE COMPONENTS
USA	6625454	2003-09-23	THEODORE S RAPPAPORT ROGER R SKIDMORE ERIC REIFSNIDER	METHOD AND SYSTEM FOR DESIGNING OR DEPLOYING A COMMUNICATIONS NETWORK WHICH CONSIDERS FREQUENCY DEPENDANT EFFECTS

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USA	7171208	2007-01-30	THEODORE S RAPPAPORT ROGER R SKIDMORE ERIC REIFSNIEDER	METHOD AND SYSTEM, WITH COMPONENT KITS FOR DESIGNING OR DEPLOYING A COMMUNICATIONS NETWORK WHICH CONSIDERS FREQUENCY DEPENDENT EFFECTS
USA	7680644	2010-03-16	THEODORE S RAPPAPORT ROGER R SKIDMORE ERIC REIFSNIEDER	METHOD AND SYSTEM, WITH COMPONENT KITS FOR DESIGNING OR DEPLOYING A COMMUNICATIONS NETWORK WHICH CONSIDERS FREQUENCY DEPENDENT EFFECTS
USA	7933605	2011-04-26	THEODORE S RAPPAPORT ROGER R SKIDMORE ERIC REIFSNIEDER	METHOD AND SYSTEM, WITH COMPONENT KITS FOR DESIGNING OR DEPLOYING A COMMUNICATIONS NETWORK WHICH CONSIDERS FREQUENCY DEPENDENT EFFECTS
USA	6625454 C1	2011-11-15	THEODORE S RAPPAPORT ROGER R SKIDMORE ERIC REIFSNIEDER	METHOD AND SYSTEM FOR DESIGNING OR DEPLOYING A COMMUNICATIONS NETWORK WHICH CONSIDERS FREQUENCY DEPENDANT EFFECTS
USA	8290499	2012-10-16	THEODORE S RAPPAPORT ROGER R SKIDMORE ERIC REIFSNIEDER	METHOD AND SYSTEM TO MODEL FREQUENCY DEPENDENT EFFECTS OF A COMMUNICATIONS NETWORK
USA	7055107	2006-05-30	THEODORE S RAPPAPORT ROGER R SKIDMORE PRAVEEN SHEETHALNATH	METHOD, AND SYSTEM FOR AUTOMATED SELECTION OF OPTIMAL COMMUNICATION NETWORK EQUIPMENT MODEL, POSITION, AND CONFIGURATION IN 3-D
USA	6973622	2005-12-06	THEODORE S RAPPAPORT ROGER R SKIDMORE BENJAMIN HENTY	SYSTEM AND METHOD FOR DESIGN, TRACKING, MEASUREMENT, PREDICTION, AND OPTIMIZATION OF DATA COMMUNICATION NETWORKS
USA	8503336	2013-08-06	THEODORE S RAPPAPORT ROGER R SKIDMORE BENJAMIN HENTY	SYSTEM AND METHOD FOR DESIGN, TRACKING, MEASUREMENT, PREDICTION, AND OPTIMIZATION OF DATA COMMUNICATION NETWORKS
USA	6973622 C1	2010-02-02	THEODORE S RAPPAPORT ROGER R SKIDMORE BENJAMIN HENTY	SYSTEM AND METHOD FOR DESIGN, TRACKING, MEASUREMENT, PREDICTION, AND OPTIMIZATION OF DATA COMMUNICATION NETWORKS

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USA	7030812	2006-04-18	BENJAMIN J. BEKRITSKY DAVID P. GOREN BILL SAKODA RAJ BRIDGELALL	WIRELESS CLOCK SYNCHRONIZATION
USA	7030811	2006-04-18	DAVID P. GOREN DEAN M KAWAGUCHI RAJ BRIDGELALL BENJAMIN J. BEKRITSKY CHRIS ZEGELIN	METHODS AND APPARATUS FOR IDENTIFYING ASSET LOCATION IN COMMUNICATION NETWORKS
USA	7069025	2006-06-27	DAVID P. GOREN CHRISTOPHER HOOK	METHODS AND APPARATUS FOR IDENTIFYING ASSET LOCATION IN COMMUNICATION NETWORKS
USA	7250906	2007-07-31	DAVID P. GOREN DEAN M KAWAGUCHI RAJ BRIDGELALL BENJAMIN J. BEKRITSKY CHRIS ZEGELIN	METHODS AND APPARATUS FOR IDENTIFYING ASSET LOCATION IN COMMUNICATION NETWORKS
USA	6735450	2004-05-11	PETER H. REMMERT	METHOD AND APPARATUS FOR WIRELESS OUTDOOR ENVIRONMENT COMMUNICATIONS NETWORKS
USA	7019753	2006-03-28	THEODORE S RAPPAPORT ROGER R SKIDMORE BENJAMIN HENTY	TEXTUAL AND GRAPHICAL DEMARCATION OF LOCATION AND INTERPRETATION OF MEASUREMENTS
USA	7574323	2009-08-11	THEODORE S RAPPAPORT ROGER R SKIDMORE BENJAMIN HENTY	TEXTUAL AND GRAPHICAL DEMARCATION OF LOCATION AND INTERPRETATION OF MEASUREMENTS
USA	7164883	2007-01-16	THEODORE S RAPPAPORT ROGER R SKIDMORE PRAVEEN SHEETHALNATH	METHOD AND SYSTEM FOR MODELING AND MANAGING TERRAIN, BUILDINGS AND INFRASTRUCTURE
USA	7260115	2007-08-21	MARK RUSSELL DEFORD	SYSTEM AND METHOD OF ORDERING THE TRANSMISSION OF DATA PACKETS IN A RADIO SYSTEM
USA	7633974	2009-12-15	MARK RUSSELL DEFORD	SYSTEM AND METHOD OF ORDERING THE TRANSMISSION OF DATA PACKETS IN A RADIO SYSTEM

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USA	6985461	2006-01-10	GURREET SINGH	SITE-HOSTING, MOBILE TERMINAL FOR WIRELESS CONNECTION TO COMPUTER NETWORK
USA	7680085	2010-03-16	BRUCE A WILLINS RICHARD M VOLLKOMMER	OUT-OF-BAND MANAGEMENT AND TRAFFIC MONITORING FOR WIRELESS ACCESS POINTS
USA	7126945	2006-10-24	ROBERT E. BEACH	POWER SAVING FUNCTION FOR WIRELESS LANS: METHODS, SYSTEM, AND PROGRAM PRODUCTS
USA	7349356	2008-03-25	ROBERT E. BEACH	POWER SAVING FUNCTION FOR WIRELESS LANS: METHODS, SYSTEM, AND PROGRAM PRODUCTS
USA	7961660	2011-06-14	ROBERT E. BEACH	POWER SAVING FUNCTION FOR WIRELESS LANS: METHODS, SYSTEM, AND PROGRAM PRODUCTS
USA	7917610	2011-03-29	JOHN KLEIN FRANK JAMES MICHAEL GOODFELLOW	XML CONTROL MANAGEMENT
USA	7383577	2008-06-03	SCOTT HRASTAR MICHAEL T. LYNN EDWIN L. SALE DAWN M. HOLLINGSWORTH	METHOD AND SYSTEM FOR ENCRYPTED NETWORK MANAGEMENT AND INTRUSION DETECTION
USA	7086089	2006-08-01	SCOTT HRASTAR MICHAEL T. LYNN EDWIN L. SALE DAWN M. HOLLINGSWORTH	SYSTEMS AND METHODS FOR NETWORK SECURITY
USA	7042852	2006-05-09	SCOTT HRASTAR	SYSTEM AND METHOD FOR WIRELESS LAN DYNAMIC CHANNEL CHANGE WITH HONEYPOT TRAP
USA	7058796	2006-06-06	MICHAEL T. LYNN SCOTT HRASTAR	METHOD AND SYSTEM FOR ACTIVELY DEFENDING A WIRELESS LAN AGAINST ATTACKS
USA	7277404	2007-10-02	FRED C. TANZELLA SCOTT HRASTAR	SYSTEM AND METHOD FOR SENSING WIRELESS LAN ACTIVITY
USA	7322044	2008-01-22	SCOTT HRASTAR	SYSTEM AND METHODS FOR AUTOMATED NETWORK POLICY EXCEPTION DETECTION AND CORRECTION
USA	7532895	2009-05-12	SCOTT HRASTAR	SYSTEMS AND METHODS FOR ADAPTIVE LOCATION TRACKING

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USA	7526808	2009-04-28	MICHAEL T. LYNN SCOTT HRASTAR	METHOD AND SYSTEM FOR ACTIVELY DEFENDING A WIRELESS LAN AGAINST ATTACKS
USA	7779476	2010-08-17	MICHAEL T. LYNN SCOTT HRASTAR	ACTIVE DEFENSE AGAINST WIRELESS INTRUDERS
USA	8060939	2011-11-15	MICHAEL T. LYNN SCOTT HRASTAR	METHOD AND SYSTEM FOR SECURING WIRELESS LOCAL AREA NETWORKS
USA	7167717	2007-01-23	DAVID P. GOREN	SYSTEM AND METHOD FOR WIRED NETWORK SYNCHRONIZATION FOR REAL TIME LOCATION TRACKING
USA	7068999	2006-06-27	PHILLIP BALLAI	SYSTEM AND METHOD FOR DETECTION OF A ROGUE WIRELESS ACCESS POINT IN A WIRELESS COMMUNICATION NETWORK
USA	7676218	2010-03-09	PHILLIP BALLAI	SYSTEM AND METHOD FOR DETECTION OF A ROGUE WIRELESS ACCESS POINT IN A WIRELESS COMMUNICATION NETWORK
USA	6735445	2004-05-11	JACOB SHARONY JOSEPH KATZ	SYSTEM AND METHOD FOR MEDIUM ACCESS CONTROL IN A WIRELESS NETWORK
USA	8170611	2012-05-01	PHILLIP BALLAI	INTERNAL ACCESSORY ANTENNA SYSTEM AND METHOD FOR WIRELESS NETWORK
USA	6925094	2005-08-02	JACOB SHARONY MOUSHUMI SEN WILLIAM SAKODA	SYSTEM AND METHOD FOR WIRELESS NETWORK CHANNEL MANAGEMENT
USA	7162258	2007-01-09	ROBERT E. BEACH RAY MARTINO, JR.	LIGHT FIXTURE WIRELESS ACCESS POINTS
USA	7295960	2007-11-13	THEODORE S RAPPAPORT ROGER R SKIDMORE	SYSTEM AND METHOD FOR AUTOMATED PLACEMENT OF CONFIGURATION OF EQUIPMENT FOR OBTAINING DESIRED NETWORK PERFORMANCE OBJECTIVES AND FOR SECURITY, RF TAGS AND BANDWIDTH PROVISIONING
USA	7295119	2007-11-13	THEODORE S RAPPAPORT ROGER R SKIDMORE	SYSTEM AND METHOD FOR AUTOMATED PLACEMENT OF CONFIGURATION OF EQUIPMENT FOR OBTAINING DESIRED NETWORK PERFORMANCE OBJECTIVES AND FOR SECURITY, RF TAGS AND BANDWIDTH PROVISIONING

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USA	7280520	2007-10-09	GRAHAM DAVID MELVILLE RICHARD MONTGOMERY RAY MARTINO	VIRTUAL WIRELESS LOCAL AREA NETWORKS
USA	7492744	2009-02-17	JOHN DOOLEY ALONA GIAN JOHN KLEIN MARC MULDER	METHOD AND SYSTEM FOR MULTIPLE BASIC AND EXTENDED SERVICE SET IDENTIFIERS IN WIRELESS LOCAL AREA NETWORKS
USA	7359676	2008-04-15	SCOTT HRASTAR	SYSTEM AND METHODS FOR ADAPTIVELY SCANNING FOR WIRELESS COMMUNICATIONS
USA	7324804	2008-01-29	SCOTT HRASTAR ISSAM NADIM HADDAD	SYSTEM AND METHODS FOR DYNAMIC SENSOR DISCOVERY AND SELECTION
USA	7522908	2009-04-21	SCOTT HRASTAR	SYSTEM AND METHODS FOR WIRELESS NETWORK SITE SURVEY SYSTEMS AND METHODS
USA	7424300	2008-09-09	DAVID P. GOREN	METHOD FOR TRACKING LOCATION OF A MOBILE UNIT
USA	7873368	2011-01-18	DAVID P. GOREN	METHOD FOR TRACKING LOCATION OF A MOBILE UNIT
USA	7376079	2008-05-20	JOHN KLEIN	BACKUP CELL CONTROLLER
USA	7542770	2009-06-02	CHRIS ZEGELIN	METHOD FOR MOBILE UNIT LOCATION ESTIMATE IN A WIRELESS LAN
USA	7668201	2010-02-23	JACOB SHARONY MOUSHUMI SEN	BANDWIDTH MANAGEMENT IN WIRELESS NETWORKS
USA	7069024	2006-06-27	JACOB SHARONY	SYSTEM AND METHOD FOR DETERMINING LOCATION OF ROGUE WIRELESS ACCESS POINT
USA	7127258	2006-10-24	CHRIS ZEGELIN	WLANROAMING BASED ON LOCATION
USA	7720445	2010-05-18	HUI-LENG LIM ED W GEIGER PAT J WALLACE PHILLIP BALLAI CURT D. CROLEY	MODULAR ACCESS POINT

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USA	8417302	2013-04-09	HUI-LENG LIM ED W GEIGER PAT J WALLACE PHILLIP BALLAI CURT D. CROLEY	MODULAR ACCESS POINT
USA	7272414	2007-09-18	LUIS F LLAMAS JOVAN D MILOSAVLJEVIC CHARLES P. UBRACO PATRICK MARTIN BROWN	METHOD AND APPARATUS FOR CONFIGURING A VOICE OVER IP CLIENT CONNECTION
USA	7355996	2008-04-08	SCOTT HRASTAR	SYSTEM AND METHODS FOR ADAPTIVE MONITORING WITH BANDWIDTH CONSTRAINTS
USA	7385476	2008-06-10	RAJ BRIDGELALL	METHOD AND SYSTEM FOR COMMUNICATING DATA TO A WIRELESS ACCESS POINT
USA	7639656	2009-12-29	JOHN DOOLEY MIKE S SHIBA DANIEL L SCHEVE	PROTOCOL FOR COMMUNICATION BETWEEN ACCESS PORTS AND WIRELESS SWITCHES
USA	7496070	2009-02-24	SAROSH VESUNA	RECONFIGURABLE ARRAYS OF WIRELESS ACCESS POINTS
USA	8321545	2012-11-27	PAVEL SYRTSOV VIKRANTH REDDY JANAKIRAMAN GOPALAN SRINIVAS MANDYAM KRISHNA VEDATI KEL VIN CHONG	SERVICE ORIENTATED PLATFORM ARCHITECTURE FOR A WIRELESS NETWORK
USA	8019352	2011-09-13	THEODORE S RAPPAPORT ROGER R SKIDMORE VEERARAGHAVAN A. ANANTHA ERIC REIFSNIDER	SYSTEM, METHOD AND APPARATUS FOR DETERMINING AND USING THE POSITION OF WIRELESS DEVICES OR INFRASTRUCTURE FOR WIRELESS NETWORK ENHANCEMENTS
USA	D512052	2005-11-29	PATRICK J WALLACE HUI-LENG LIM	NETWORK ACCESS PORT
USA	D510343	2005-10-04	PATRICK J WALLACE HUI-LENG LIM JAMES T. MIELKE	NETWORK ACCESS PORT
USA	7349774	2008-03-25	ANDY WERBACK	AIRCRAFT TRAFFIC WARNING SYSTEM USING AN AD-HOC RADIO NETWORK

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USA	7596388	2009-09-29	BRUCE A WILLINS JACOB SHARONY	SECTORIZED WIRELESS COMMUNICATION NETWORK OPERATING UNDER 802.11 SPECIFICATIONS
USA	7669230	2010-02-23	CLINT CHAPLIN	SECURE SWITCHING SYSTEM FOR NETWORKS AND METHOD FOR SECURING SWITCHING
USA	7515573	2009-04-07	ZELJKO BAJIC	METHOD, SYSTEM, AND APPARATUS FOR CREATING AN ACTIVE CLIENT LIST TO SUPPORT LAYER 3 ROAMING IN WIRELESS LOCAL AREA NETWORKS(WLAN)
USA	7443809	2008-10-28	ZELJKO BAJIC	METHOD, SYSTEM, AND APPARATUS FOR CREATING AN ACTIVE CLIENT LIST TO SUPPORT LAYER 3 ROAMING IN WIRELESS LOCAL AREA NETWORKS (WLAN)
USA	7424000	2008-09-09	RAMESH SEKCHAR	TIME SLOT RESERVATION SCHEME IN WIRELESS MESHED NETWORKS
USA	7529203	2009-05-05	ZELJKO BAJIC SUJAI HAJELA	METHOD, SYSTEM, AND APPARATUS FOR LOAD BALANCING OF WIRELESS SWITCHES TO SUPPORT LAYER 3 ROAMING IN WIRELESS LOCAL AREA NETWORKS (WLAN)
USA	7499411	2009-03-03	PUNEET BATTA JASON D HATASHITA	SYSTEM AND METHOD FOR PROVIDING AUTOMATIC LOAD BALANCING AND REDUNDANCY IN ACCESS PORT ADOPTION
USA	7729326	2010-06-01	RAMESH SEKCHAR	WIRELESS NETWORK SYSTEM WITH WIRELESS ACCESS PORTS
USA	7822000	2010-10-26	RAMESH SEKCHAR	TIME DIVISION MULTIPLEXING FOR ACCESS PORTS IN A WIRELESS NETWORK
USA	7437127	2008-10-14	DAVID P. GOREN VINH-PHUONG T. LE BENJAMIN J. BEKRITSKY SURONG ZENG	METHOD AND SYSTEM FOR DETERMINING EXISTENCE OF A PREDETERMINED WIRELESS NETWORK COVERAGE CONDITION IN A WIRELESS NETWORK
USA	7593715	2009-09-22	KEVIN PREST VINH-PHUONG T. LE	SYSTEM AND METHOD FOR DETECTING ACTIVITY ON A FREQUENCY BAND
USA	7688782	2010-03-30	DEAN M KAWAGUCHI VINH-PHUONG T. LE	METHOD AND SYSTEM FOR MANAGING MULTI-CHANNEL COMMUNICATION
USA	7621497	2009-11-24	PATRICK J WALLACE	CEILING MOUNT

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USA	7742456	2010-06-22	DEAN M KAWAGUCHI VINH-PHUONG T. LE	SYSTEM AND METHOD FOR LOCATIONING IN A COMMUNICATIONS NETWORK
USA	8204039	2012-06-19	ROBERT E. BEACH DEAN M KAWAGUCHI RAMESH SEKHAR	SYSTEM AND METHOD FOR DATA COMMUNICATIONS IN A WIRELESS NETWORK
USA	7577424	2009-08-18	AMIT SINHA NICHOLAS J DARROW	SYSTEMS AND METHODS FOR WIRELESS VULNERABILITY ANALYSIS
USA	7961673	2011-06-14	AMIT JAIN	SYSTEM AND METHOD FOR CLUSTERING WIRELESS DEVICES IN A WIRELESS NETWORK
USA	7715800	2010-05-11	AMIT SINHA	SYSTEM AND METHODS FOR WIRELESS INTRUSION DETECTION USING SPECTRAL ANALYSIS
USA	7903624	2011-03-08	AJAY MALIK SUJAI HAJELA	METHODS AND APPARATUS FOR SIMPLIFIED SETUP OF CENTRALIZED WLAN SWITCHING
USA	7869346	2011-01-11	KAMATCHI SOUNDARAM GOPALAKRISHNAN AJAY MALIK	METHODS AND APPARATUS FOR CLUSER LICENSING IN WIRELESS SWITCH ARCHITECTURE
USA	7971251	2011-06-28	AMIT SINHA	SYSTEMS AND METHODS FOR WIRELESS SECURITY USING DISTRIBUTED COLLABORATION OF WIRELESS CLIENTS
USA	7720464	2010-05-18	PUNEET BATTA	SYSTEM AND METHOD FOR PROVIDING DIFFERENTIATED SERVICE LEVELS TO WIRELESS DEVICES IN A WIRELESS NETWORK
USA	7813443	2010-10-12	MIKE S SHIBA WAYNE OUCHIDA	TRANSMMIT DIVERSITY ALGORITHM FOR IMPROVED PERFORMANCE IN POOR SIGNAL CONDITIONS
USA	7970013	2011-06-28	AMIT SINHA NICHOLAS J DARROW	SYSTEMS AND METHODS FOR WIRELESS NETWORK CONTENT FILTERING
USA	7804806	2010-09-28	UDAYAN N BORKAR RAM NAGARAJAN	TECHNIQUES FOR PEER WIRELESS SWITCH DISCOVERY WITHIN A MOBILITY DOMAIN
USA	7826869	2010-11-02	RAM NAGARAJAN UDAYAN N BORKAR	MOBILITY RELAY TECHNIQUES FOR REDUCING LAYER 3 MOBILITY CONTROL TRAFFIC AND PEERING SESSIONS TO PROVIDE SCALABILITY IN LARGE WIRELESS SWITCH NETWORKS

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USA	7961690	2011-06-14	RAM NAGARAJAN UDAYAN N BORKAR RAVINDER VERMA	WIRELESS SWITCH NETWORK ARCHITECTURE IMPLEMENTING MOBILITY AREAS WITHIN A MOBILITY DOMAIN
USA	7916682	2011-03-29	RAM NAGARAJAN UDAYAN N BORKAR	WIRELESS SWITCH NETWORK ARCHITECTURE IMPLEMENTING LAYER 3 MOBILITY DOMAINS
USA	7639648	2009-12-29	RAM NAGARAJAN UDAYAN N BORKAR	TECHNIQUES FOR HOME WIRELESS SWITCH REDUNDANCY AND STATEFUL SWITCHOVER IN A NETWORK OF WIRELESS SWITCHES SUPPORTING LAYER 3 MOBILITY WITHIN A MOBILITY DOMAIN
USA	7613150	2009-11-03	RAM NAGARAJAN UDAYAN N BORKAR	HITLESS RESTART MECHANISM FOR NON-STOP DATA-FORWARDING IN THE EVENT OF L3-MOBILITY CONTROL-PLANE FAILURE WIRELESS SWITCH
USA	7826425	2010-11-02	RAMESH SEKHAR	METHOD AND SYSTEM FOR LOSS-LESS ROAMING WITH WIRELESS BRIDGING
USA	8111676	2012-02-07	RAMESH SEKHAR	LOSELESS ROAMING VIA BRIDGING BETWEEN ACCESS PORTS
USA	8281392	2012-10-02	AMIT SINHA NICHOLAS J DARROW	METHODS AND SYSTEMS FOR WIRED EQUIVALENT PRIVACY AND WI-FI PROTECTED ACCESS PROTECTION
USA	7869438	2011-01-11	PUNEET BATTA	PRE-AUTHENTICATION ACROSS AN 802.11 LAYER-3 IP NETWORK
USA	7760695	2010-07-20	KAMATCHI SOUNDARAM GOPALAKRISHNAN AJAY MALIK	METHODS AND SYSTEMS FOR CENTRALIZED CLUSTER MANAGEMENT IN WIRELESS SWITCH ARCHITECTURE
USA	7783300	2010-08-24	AMIT SINHA	SYSTEMS AND METHODS FOR PROACTIVELY ENFORCING A WIRELESS FREE ZONE
USA	8205244	2012-06-19	TODD W NIGHTINGALE LAKSHMAIAH REGOTI KAILASH KAILASH VIKAS SOOD SAMUEL J CRANK	SYSTEMS AND METHODS FOR GENERATING, MANAGING, AND DISPLAYING ALARMS FOR WIRELESS NETWORK MONITORING
USA	8134985	2012-03-13	DEANNA S HONG	SYSTEM AND METHOD FOR WLAN MULTI-CHANNEL REDUNDANCY FOR VOIP OPTIMIZATION

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USA	7912469	2011-03-22	AJAY MALIK	SYSTEM AND METHOD FOR DEPLOYMENT OF A WIRELESS INFRASTRUCTURE
USA	8320321	2012-11-27	AVINASH JOSHI MANISH SHUKLA	OPTIMIZING POSITIONS OF TIME SLOTS IN A HYBRID TIME DIVISION MULTIPLE ACCESS (TDMA)-CARRIER SENSE MULTIPLE ACCESS (CSMA) MEDIUM ACCESS CONTROL (MAC) FOR MULTI-HOP AD HOC NETWORKS
USA	7826862	2010-11-02	AJAY MALIK VINH-PHUONG T. LE MAHENDER R VANGATI	METHOD AND APPARATUS FOR IMPROVED LOCATIONING IN A WIRELESS NETWORK
USA	8300618	2012-10-30	AVINASH JOSHI MANISH SHUKLA	USER PRIORITY BASED PREEMPTION TECHNIQUES IN A TIME DIVISION MULTIPLE ACCESS MULTI-HOP AD HOC NETWORK
USA	7961725	2011-06-14	RAM NAGARAJAN UDAYAN N BORKAR	ENTERPRISE NETWORK ARCHITECTURE FOR IMPLEMENTING A VIRTUAL PRIVATE NETWORK FOR WIRELESS USERS BY MAPPING WIRELESS LANS TO IP TUNNELS
USA	7885233	2011-02-08	RAM NAGARAJAN UDAYAN N BORKAR	FORWARDING BROADCAST/MULTICAST DATA WHEN WIRELESS CLIENTS LAYER 3 ROAM ACROSS IP SUBNETS IN A WLAN
USA	8130656	2012-03-06	KEITH J. GOLDBERG CHRISTOPHER L BEAR	METHOD AND DEVICE FOR ROUTING MESH NETWORK TRAFFIC
USA	8027266	2011-09-27	MAHENDER R VANGATI AJAY MALIK	OPTIMIZED RF COVERAGE USING AJAX AND SVG
USA	8185121	2012-05-22	MAHENDER R VANGATI	OPTIMIZATION OF DISPLAYED RF COVERAGE
USA	8134987	2012-03-13	ANURAG VERMA LAXMINARAYAN BHAT	METHODS AND APPARATUS FOR SPLIT POLICY ENFORCEMENT IN WIRELESS NETWORKS
USA	7792110	2010-09-07	CHARLES W WINNER CHARLES BARKER KEITH J. GOLDBERG HRISHIKESH GOSSAIN	METHOD AND SYSTEM FOR UPDATING A VIRTUAL LOCAL AREA NETWORK (VLAN) STATUS OF A NODE IN A MESH NETWORK
USA	8249105	2012-08-21	AVINASH JOSHI PANKAJ AGGARWAL MANISH SHUKLA	METHOD FOR AGGREGATING FRAMES IN A WIRELESS COMMUNICATION NETWORK

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USA	7737573	2010-06-15	JULIE PHAN ERIC T TOKUBO JOSH T ROSENTHAL	POWER OVER ETHERNET COMBINER
USA	8223732	2012-07-17	AIHUA E. LI	METHOD AND APPARATUS FOR BALANCING LOAD ACROSS ACCESS DEVICES IN A WIRELESS NETWORK
USA	8036161	2011-10-11	RAM NAGARAJAN	WIRELESS SWITCH WITH VIRTUAL WIRELESS SWITCH MODULES
USA	8225124	2012-07-17	ED W GEIGER JULIE PHAN PAT J WALLACE	METHOD AND SYSTEM FOR DETERMINING POWER OVER ETHERNET CLASS CAPABILITIES
USA	8811295	2014-08-19	SUBHRAJYOTI BHAR	METHODS AND APPARATUS FOR PRIORITY-BASED ADOPTION OF AN ACCESS DEVICE
USA	8027248	2011-09-27	KARTHIKEYAN BALASUBRAMANIAN SHRIJITH VELAYUDHAN VIVEK KRISHNAN SOMESH AGRAWAL VENKATESH KANNAN	ACCESS PORT ADOPTION TO MULTIPLE WIRELESS SWITCHES
USA	7966010	2011-06-21	EDWARD LI	METHOD AND SYSTEM FOR TUNING AND SELF-MONITORING OF WIRELESS NETWORKS
USA	8139543	2012-03-20	EDWARD LI	COVERAGE-HOLE DETECTION AND SELF-HEALING
USA	8189547	2012-05-29	EDWARD LI	SELF-CONFIGURATION OF WIRELESS ACCESS DEVICES IN A WIRELESS NETWORK ENVIRONMENT
USA	8588146	2013-11-19	HRISHIKESH GOSSAIN KEITH J. GOLDBERG SAMER HANNA PAVAN K RUDRAVARAM SEBNEM ZORLU-OZER	METHOD AND APPARATUS FOR CHANNEL SELECTION IN A WIRELESS COMMUNICATION SYSTEM
USA	8170050	2012-05-01	EDWARD LI	SELF-ASSIGNMENT OF DETECTORS AND WORKERS AMONG ACCESS DEVICES IN A WIRELESS NETWORK ENVIRONMENT
USA	8612752	2013-12-17	PUNEET BATTA	COMMUNICATING A PACKET FROM A MESH-ENABLED ACCESS POINT TO A MESH PORTAL IN A MULTI-HOP MESH NETWORK

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USA	8391169	2013-03-05	PUNEET BATTTA	METHODS AND APPARATUS FOR LOCATING A MOBILE DEVICE IN A SLEEP MODE
USA	8184610	2012-05-22	GUENAEL J STRUTT CHARLES BARKER KEITH J. GOLDBERG	METHOD FOR ADAPTIVE BEACONING
USA	8171539	2012-05-01	TREVOR MIRANDA	METHODS AND APPARATUS FOR IMPLEMENTING A SEARCH TREE
USA	8281134	2012-10-02	ZELJKO BAJIC RAM NAGARAJAN RAJESH VIJAYAKUMAR	METHODS AND APPARATUS FOR LAYER 2 AND LAYER 3 SECURITY BETWEEN WIRELESS TERMINATION POINTS
USA	8121102	2012-02-21	PUNEET BATTTA	METHODS AND APPARATUS FOR RECOVERING FROM MISCONFIGURATION IN A WLAN
USA	8033149	2011-10-11	PUNEET BATTTA RAM NAGARAJAN	METHOD AND SYSTEM FOR COLLECTING LOCATIONING INFORMATION IN A WIRELESS LOCAL AREA NETWORK
USA	8798034	2014-08-05	PANKAJ AGGARWAL HRISHIKESH GOSSAIN AVINASH JOSHI MANISH SHUKLA	SYSTEM AND METHOD FOR SELECTING A ROUTE BASED ON LINK METRICS INCORPORATING CHANNEL BANDWIDTH, SPATIAL STREAMS AND/OR GUARD INTERVAL IN A MULTIPLE-INPUT MULTIPLE-OUTPUT (MIMO) NETWORK
USA	9003205	2015-04-07	RAJIV R IYER JASON T HARRIS RAMESH SEKHAR	METHOD TO LOWER THE OPERATING COST OF WIRELESS NETWORK BY ENFORCING LOW POWER INFRASTRUCTURE OPERATION
USA	8694624	2014-04-08	AMIT SINHA GLEN S S CROWDER TODD W NIGHTINGALE MICHAEL YUEN	SYSTEMS AND METHODS FOR CONCURRENT WIRELESS LOCAL AREA NETWORK ACCESS AND SENSING
USA	8223657	2012-07-17	ED W GEIGER VINH-PHUONG T. LE NHAN T NGUYEN JULIE PHAN	MODIFYING SYSTEM CLOCKS BASED ON PARTICULAR WLAN CHANNEL THAT IS SELECTED TO IMPROVE RF SENSITIVITY OF A RADIO MODULE
USA	8451735	2013-05-28	EDWARD LI	SYSTEMS AND METHODS FOR DYNAMIC LOAD BALANCING IN A WIRELESS NETWORK
USA	8756690	2014-06-17	JASON P ORGILL	EXTENSIBLE AUTHENTICATION PROTOCOL ATTACK DETECTION SYSTEMS AND METHODS

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USA	8826413	2014-09-02	RAJESH VIJAYAKUMAR NICOLAS S DADE JACOB THOMAS ANURAG VERMA	WIRELESS LOCAL AREA NETWORK INFRASTRUCTURE DEVICES HAVING IMPROVED FIREWALL FEATURES
USA	8798000	2014-08-05	TARUN MAHARANA PUNEET BATTA	MANAGING WIRELESS WIDE AREA NETWORK BANDWIDTH BANDWIDTH CONSTRAINTS IN A COMMUNICATION NETWORK
USA	8392990	2013-03-05	SENTHILRAJ SHANMUGAVADIVEL VINODH KUMAR SRINVASAN K THIRUKONDA	MITIGATING EXCESSIVE OPERATIONS ATTACKS IN A WIRELESS COMMUNICATION NETWORK
USA	8352604	2013-01-08	TREVOR MIRANDA PUNEET BATTA	DISTRIBUTED PROPAGATION OF DATA IN A WIRELESS COMMUNICATION NETWORK
USA	8549634	2013-10-01	JITESH VERMA PRADIP DUBEY	METHOD AND APPARATUS FOR DETECTING A ROGUE ACCESS POINT IN A COMMUNICATION NETWORK
USA	8493977	2013-07-23	RAMPRASAD VEMPATI PASUPULA SRIDHAR ANANDA KRISHNAN VISHWANATHAN	DETECTION OF AN UNAUTHORIZED ACCESS POINT IN A WIRELESS COMMUNICATION NETWORK
USA	8923133	2014-12-30	NICOLAS S DADE SOREN K LUNDSGAARD	DETECTION OF UNAUTHORIZED CHANGES TO AN ADDRESS RESOLUTION PROTOCOL CACHE IN A COMMUNICATION NETWORK
USA	8594064	2013-11-26	ANIL KAUSHIK HARI SHARMA	MODE STEERING IN A WIRELESS COMMUNICATION NETWORK
USA	8553603	2013-10-08	RAMESH SEK HAR	CLIENT BRIDGE BETWEEN WIRED AND WIRELESS COMMUNICATION NETWORKS
USA	8705967	2014-04-22	ROBERT E. BEACH	SERIALY DISTRIBUTED ACCESS POINT IN A COMMUNICATION NETWORK
USA	9088837	2015-07-21	ROBERT E. BEACH	SERIALY-DISTRIBUTED DEVICES IN A COMMUNICATION NETWORK
USA	8811361	2014-08-19	JASON D HATASHITA PUNEET BATTA JACOB THOMAS HELGE SZWERINSKI	HYBRID BROADCAST PACKET REPLICATION FOR VIRTUAL LOCAL AREA NETWORKS
USA	8755274	2014-06-17	VAMSI KRISHNA BANDLAMUDI JEELAN BASHA POOLA SUNDARESAN SUNDARAM	ADAPTIVE DATA RATE LIMITER IN A WIRELESS COMMUNICATION DEVICE

Schedule A

sf-3691750

<u>Jurisdiction</u>	<u>Patent No.</u>	<u>Issue Date</u>	<u>Inventor</u>	<u>Title</u>
USA	8516567	2013-08-20	JHEELAN BASHA POOLA SOMESH AGRAWAL	DISTRIBUTED FIREWALLING IN A WIRELESS COMMUNICATION NETWORK
USA	8929803	2015-01-06	DEANNA S HONG	RADIO FREQUENCY BARRIER IN A WIRELESS COMMUNICATION NETWORK
USA	8867342	2014-10-21	TUSHAR MATHUR ANIL KAUSHIK RAJ KIRAN SENTHILRAJ SHANMUGAVADIVEL VIJAY YADAV	ADAPTIVE STANDBY ACCESS IN A LOCAL AREA COMMUNICATION NETWORK
USA	8934867	2015-01-13	SENTHILRAJ SHANMUGAVADIVEL ANIL KAUSHIK RAJ KIRAN	ON-DEMAND ACCESS TUNNEL BETWEEN SERVICE PROVIDER NETWORK AND WIRELESS COMMUNICATION NETWORK
USA	8842651	2014-09-23	JHEELAN BASHA POOLA AZIF AK SOMESH AGRAWAL CHANNAREDDY IREDDY SUKHDEEP SINGH JOHAR VIJAY YADAV SENTHILRAJ SHANMUGAVADIVEL SUNDARESAN SUNDARAM	ACCESS POINT GROUPINGS BRIDGING TUNNELED TRAFFIC FOR A COMMUNICATION NETWORK
USA	9198034	2015-11-24	RAHUL SINHA RAMESH BALLA	VALIDATING PRESENCE OF A COMMUNICATION DEVICE USING A WIRELESS LOCAL AREA NETWORK
USA	9065497	2015-06-23	CHARLES BURTON SWOPE DURGESH TIWARI	CONTEXT AWARE MULTIPLE-INPUT AND MULTIPLE-OUTPUT ANTENNA SYSTEMS AND METHODS
USA	7885606	2011-02-08	LORNE C LIECHTY KEITH D BRAY	ASSISTED MEASUREMENT SURVEY OF A WIRELESS COMMUNICATION SYSTEM
USA	8699392	2014-04-15	SANJIB MITRA AJAY KUMAR SINGH	METHOD AND APPARATUS FOR CONSERVING ACCESS POINT POWER USAGE DURING LOW NETWORK USAGE INTERVALS

Pending U.S. Patent Applications of the Grantor

<u>Jurisdiction</u>	<u>Application No.</u>	<u>Filing Date</u>	<u>Inventor</u>	<u>Title</u>
USA	11/731082	30-Mar-07	SUIZO, NICK	NETWORK MANAGEMENT INTERFACE FOR A NETWORK ELEMENT WITH NETWORK-WIDE INFORMATION
USA	14/565343	9-Dec-14	ROVNER, ED	METHOD AND SYSTEM FOR DYNAMIC USAGE OF MULTIPLE TABLES FOR INTERNET PROTOCOL HOSTS
USA	14/565338	9-Dec-14	GROSSER, DON	METHOD FOR LOAD SHARING OF MPLS PSEUDO-WIRES
USA	14/226,805	26-Mar-14	SUSAN E. CARRIE	METHODS AND SYSTEMS FOR SELECTIVELY PROCESSING VIRTUAL LOCAL AREA NETWORK (VLAN) TRAFFIC FROM DIFFERENT NETWORKS WHILE
USA	13/864091	16-Apr-13	GROSSER, DON	METHOD FOR IMPROVED RING PROTOCOL RESILIENCY, AVAILABILITY, AND PERFORMANCE
USA	12/834336	12-Jul-10	GRAHAM, RICHARD	NETWORK ACCESS POWER CONTROL
USA	13/465576	7-May-12	AFSHA, VALA	SOCIAL MEDIA INTERFACE FOR NETWORK DEVICE CONTROL
USA	13/835679	15-Mar-13	RASH, MICHAEL	DYNAMIC NETWORK TRAFFIC MIRRORING
USA	13/836048	15-Mar-13	RASH, MICHAEL	POLICY BASED NETWORK BASED APPLICATION IDENTIFICATION SYSTEM
USA	14/451851	5-Aug-14	FRATTURRA, DAVID	SYSTEM AND METHOD AND APPARATUS FOR TRAFFIC MIRROR SETUP, SERVICE AND SECURITY
USA	10/717838	21-Jul-10	LOCKE, BRIAN	METHOD AND APPARATUS FOR NAVIGATING A TASK ON A COMPUTER
USA	14/710533	12-May-15	FEE, BRENDAN	METHODS, SYSTEMS, AND COMPUTER READABLE MEDIA FOR VIRTUAL FABRIC ROUTING

<u>Jurisdiction</u>	<u>Application No.</u>	<u>Filing Date</u>	<u>Inventor</u>	<u>Title</u>
USA	14/710534	12-May-15	HAGGERTY, WILLIAM	METHODS, SYSTEMS, AND NON-TRANSISTORY COMPUTER READABLE MEDIA FOR GENERATING A TREE STRUCTURE WITH NODAL COMPARISON FIELDS AND CUT VALUES FOR RAPID TREE TRAVERSAL AND REDUCED NUMBERS OF FULL COMPARISONS AT LEAF NODES
USA	14/784020	12-Oct-15	BITHIKA KHARGHARIA	BANDWIDTH ON DEMAND IN SDN NETWORKS
USA	14/805,362	21-Jul-15	NICK G. SUIZO	NETWORK MANAGEMENT INTERFACE FOR A NETWORK ELEMENT WITH NETWORK-WIDE INFORMATION
USA	14/842,508	1-Sep-15	MARKKUS NISPEL	SYSTEM AND RELATED METHOD FOR NETWORK MONITORING AND CONTROL BASED ON APPLICATIONS
USA	14/861,838	22-Sep-15	DONALD B. GROSSER	APPARATUS AND METHOD FOR MULTICAST DATA PACKET FORWARDING
USA	14/922,481	26-Oct-15	DAVID KIENDAL	DEVICE AND RELATED METHOD FOR DYNAMIC TRAFFIC MIRRORING
USA	14/975,094	18-Dec-15	JEFFREY ALLEN FORD	METHODS, SYSTEMS, AND COMPUTER READABLE MEDIA FOR ADVANCED DISTRIBUTION IN A LINK AGGREGATION GROUP
USA	15/180,931	13-Jun-16	DONALD B. GROSSER	METHODS, SYSTEMS, AND APPARATUSES FOR DYNAMICALLY TAGGING VLANS
USA	15/190922	23-Jun-16	OLEN L. STOKES	REDUNDANT ETHERNET AUTOMATIC PROTECTION SWITCHING ACCESS TO VIRTUAL PRIVATE LAN SERVICES
USA	15/242,633	22-Aug	STEPHEN R. HADDOCK	FORWARDING INTER-SWITCH CONNECTION (ISC) FRAMES IN A NETWORK-TO-NETWORK INTERCONNECT TOPOLOGY
USA	13/184142	2011-07-15	SENTHILRAJ SHANMUGAVADIVEL ANIL KAUSHIK RAJ KIRAN	SELF-TESTING OF SERVICES IN AN ACCESS POINT OF A COMMUNICATION NETWORK
USA	14/446381	2014-06-25	CHARLES BURTON SWOPE DURGESH TIWARI	CONTEXT AWARE MULTIPLE-INPUT AND MULTIPLE-OUTPUT ANTENNA SYSTEMS AND METHODS

<u>Jurisdiction</u>	<u>Application No.</u>	<u>Filing Date</u>	<u>Inventor</u>	<u>Title</u>
USA	14/647273	2013-11-18	JEELAN BASHA POOLA SOMESH AGRAWAL PRASAD KASINATHAN SUNDARESAN SUNDARAM	VISIBLE LIGHT COMMUNICATIONS PERSONAL AREA NETWORK CONTROLLER AND ACCESS POINT SYSTEMS AND METHODS
USA	14/844151	2015-09-03	JEELAN BASHA POOLA VARUN TANDON SENTHILRAJ SHANMUGAVADIVEL	METHODS AND SYSTEMS FOR MITIGATING THE IMPACT OF BEAMFORMING ON THE ACCURACY OF WLAN BASED LOCATION TRACKING OF CLIENT DEVICES
USA	14/844064	2015-09-03	JEELAN BASHA POOLA DAVIS KOCHERY DOMINIC VEILKAKATH PETER	AUTOMATICALLY GROUPING, AUTHENTICATING AND PROVISIONING ACCESS POINTS USING CLOUD-BASED MANAGEMENT OF WLAN INFRASTRUCTURE
USA	14/806738	2015-07-23	RAJIV SHRIRANG JOSHI YADU KISHORE KODICHERLA RAJ KIRAN SANDEEP RAMAKRISHNAN	METHOD OF, AND ARRANGEMENT FOR, ENHANCING ROAMING PERFORMANCE OF A MOBILE CLIENT THAT IS ROAMING BETWEEN ACCESS POINTS CONNECTED TO A DISTRIBUTION SYSTEM
USA	14/647176	2013-11-18	JEELAN BASHA POOLA SOMESH AGRAWAL PRASAD KASINATHAN SUNDARESAN SUNDARAM	SYSTEMS AND METHODS FOR VISIBLE LIGHT COMMUNICATIONS PERSONAL AREA NETWORK AND WIRELESS LOCAL AREA NETWORK INTERWORKING
USA	15/227258	2016-08-03	SUNDARESAN SUNDARAM KRISHNA RAJA SUBRAMANI RAJENDIRAN SANDEEP RAMAKRISHNAN	NOTIFICATION FRAMEWORK FOR ACCESS POINT CONTROLLERS
USA	15/219461	2016-07-26	RAJEEV KUMAR MISHRA SENTHILRAJ SHANMUGAVADIVEL DOMINIC VEILKAKATH PETER JEELAN BASHA POOLA	ACCESS POINT CLOUD CONTROLLER AUTO-DISCOVERY

SCHEDULE B
to the Amended and Restated Patent and Trademark Security Agreement

EXTREME NETWORKS, INC.

U.S. Trademarks of the Grantor

<u>Jurisdiction</u>	<u>Registration No.</u>	<u>Registration Date</u>	<u>Registered Owner</u>	<u>Mark</u>
United States	2281382	09/28/1999	Extreme Networks, Inc.	BLACKDIAMOND
United States	4841944	10/27/2015	Extreme Networks, Inc.	E Logo
United States	4874975	12/22/2015	Extreme Networks, Inc.	E Logo EXTREME NETWORKS Stylized
United States	2243238	05/04/1999	Extreme Networks, Inc.	EXTREME NETWORKS
United States	3840628	08/31/2010	Extreme Networks, Inc.	EXTREME NETWORKS (Stylized) & Design
United States	2549958	03/19/2002	Extreme Networks, Inc.	EXTREMEWORKS
United States	3379396	02/05/2008	Extreme Networks, Inc.	EXTREMEXOS
United States	2388859	09/19/2000	Extreme Networks, Inc.	Purple Network Switch Design
United States	4073424	12/20/2011	Extreme Networks, Inc.	R Underscore & Design
United States	3796814	06/01/2010	Extreme Networks, Inc.	REACHNXT
United States	2365696	07/11/2000	Extreme Networks, Inc.	SUMMIT

<u>Jurisdiction</u>	<u>Registration No.</u>	<u>Registration Date</u>	<u>Registered Owner</u>	<u>Mark</u>
United States	4837384	10/20/2015	Extreme Networks, Inc.	WI-FI COACH
United States	85081190	7/9/2010	Extreme Networks, Inc.	AIRDEFENSE
United States	74/610015	12/12/1994	Extreme Networks, Inc.	SPECTRUM 24
United States	76/317439	9/18/2001	Extreme Networks, Inc.	WIRELESS NETWORKER

Pending U.S. Trademark Applications of the Grantor

None.