

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT7815339

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	BROCADE COMMUNICATIONS SYSTEMS LLC	09/05/2018
RECEIVING PARTY DATA		
Name:	AVAGO TECHNOLOGIES INTERNATIONAL SALES PTE. LIMITED	
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	Property Type	Number
	Application Number:	17903030
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NAME OF SUBMITTER:	MICHAEL G. DREZNES REG. NO. 59,965	
SIGNATURE:	/Michael G. Dreznes/	
DATE SIGNED:	02/24/2023	
Total Attachments: 26		
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PATENT ASSIGNMENT

THIS PATENT ASSIGNMENT ("Patent Assignment") is made and entered into effective as of September 5, 2018 (the "Effective Date"), by and between **Brocade Communications Systems LLC** (formerly Brocade Communications Systems, Inc.), a company organized and existing under the laws of the State of Delaware, with its principal place of business located at 1320 Ridder Park Drive, San Jose, CA 95131, U.S.A., ("Assignor") and **Avago Technologies International Sales Pte. Limited**, a Singapore company with UEN 200512231E, having a principal place of business at 1 Yishun Avenue 7, Singapore 768923 ("Assignee").

WHEREAS, Assignor and Assignee are parties to a certain Intellectual Property Purchase Agreement dated September 5, 2018 whereupon Assignor has agreed to assign the Patents (as defined below) to Assignee.

NOW, THEREFORE, for good and valuable consideration, the receipt for and sufficiency of which is hereby acknowledged, Assignor hereby assigns, transfers, sells and conveys to Assignee all of its rights, title and interest in and to any patent and/or patent application in which Assignor has any right, title or interest in any country, including each of the patents and patent applications that are specifically listed in Exhibit A attached hereto and made a part hereof, and any continuations, divisionals, continuations-in-part, provisionals and/or other applications that claim priority from any of such patents and patent applications and any patents issuing on any of the foregoing, and any reissues, reexaminations, substitutions, renewals, extensions and derivatives of any of the foregoing (collectively "the Patents"), and all rights, claims and privileges pertaining to the Patents, including, without limitation, rights to the underlying inventions, the right to prosecute and maintain the Patents, and the right to sue and recover damages for past, present and future infringement of any of the Patents and obtain injunctive relief.

IN WITNESS WHEREOF, Assignor and Assignee have caused this Patent Assignment to be signed and executed by the undersigned officers thereunto duly authorized as of the Effective Date.

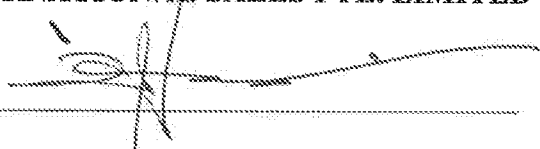
**BROCADE COMMUNICATIONS
SYSTEMS LLC**

By: 

Name: Bradley Blanche

Title: Senior IP Counsel & Authorized Signatory

**AVAGO TECHNOLOGIES
INTERNATIONAL SALES PTE. LIMITED**

By: 

Name: Jevhan Karaoguz

Title: Vice President & General Manager, IP

Country	Patent No.	Grant Date	Application Number	Filed Date	App Title
US			09/972,047	2001-10-05	TOPOLOGY FOR LARGE PORT COUNT SWITCH
US			10/610,304	2003-06-30	STORAGE AREA NETWORK PROCESSING DEVICE
US			14/709,756	2015-05-07	METHOD AND APPARATUS FOR DETERMINING BANDWIDTH-CONSUMING FRAME FLOWS IN A NETWORK
US	6728803	2004-04-27	09/502,947	2000-02-11	INTERCONNECTION ARCHITECTURE FOR MANAGING MULTIPLE LOW-BANDWIDTH CONNECTIONS OVER A HIGH BANDWIDTH LINK
EP			02707404.6	2002-01-07	METHOD FOR AGGREGATING A PLURALITY OF LINKS TO SIMULATE A UNITARY CONNECTION
EP	1720294	2013-04-10	06119506.1	2002-01-07	METHOD FOR AGGREGATING A PLURALITY OF LINKS TO SIMULATE A UNITARY CONNECTION
EP	EP2285055	2012-05-23	10181742.7	2002-01-07	METHOD FOR AGGREGATING A PLURALITY OF LINKS TO SIMULATE A UNITARY CONNECTION
US	6233236	2001-05-15	09/228,678	1999-01-12	METHOD AND APPARATUS FOR MEASURING TRAFFIC WITHIN A SWITCH
US			14/064,018	2013-10-25	PROTOCOLS FOR CONNECTING INTELLIGENT SERVICE MODULES IN A STORAGE AREA NETWORK
US			10/938,404	2004-09-10	REGISTERED STATE CHANGE NOTIFICATION FOR A FIBRE CHANNEL NETWORK
US	8144464	2012-03-27	12/770,467	2010-04-29	SHED-EXHAUST COOLING SYSTEM WITH EXTENSIBLE DUCT FOR RACK MOUNTED EQUIPMENT
US			15/273,499	2016-09-22	REMOTE PORT MIRRORING
US			13/796,136	2013-03-12	DYNAMIC RESOURCE ALLOCATION FOR VIRTUAL MACHINES
US			15/273,477	2016-09-22	TERABIT TOP-OF-STACK SWITCH
PCT			PCT/US14/41774	2014-06-10	SCALABLE AND SEGREGATED NETWORK VIRTUALIZATION
US			14/329,447	2014-07-11	EDGE EXTENSION OF AN ETHERNET FABRIC SWITCH
US			14/191,007	2014-02-26	HARDWARE-ASSISTED APPLICATION TRAFFIC PRIORITIZATION
PCT			PCT/US14/58271	2014-09-30	128 GIGABIT FIBRE CHANNEL PHYSICAL ARCHITECTURE
US			15/432,739	2017-02-14	FLOATING DAUGHTER CARD SYSTEM AND METHOD
US			14/623,137	2015-02-16	ZOOM-IN, ZOOM-OUT
PCT			PCT/US16/19510	2016-02-25	FLOW-SPECIFIC FAILURE DETECTION IN SDN NETWORKS
PCT			PCT/US16/26487	2016-04-07	DYNAMIC ORCHESTRATION OF NVE OVERLAY TRANSPORT
US			15/279,082	2016-09-15	Z-STEPPED PARALLEL FAN FAN AND METHOD
US			14/918,441	2015-10-20	SUN-BASED MIRRORING OF TRAFFIC FLOWS FOR IN-BAND NETWORK ANALYTICS
US			15/440,139	2017-02-23	RUNTIME CONFIGURATION OF SERVLET FILTERING USING DYNAMIC INJECTION
US			10/140,751	2002-05-06	METHOD AND APPARATUS FOR EFFICIENTLY PROCESSING DATA PACKETS IN A COMPUTER NETWORK
US			14/521,738	2014-10-23	LONGEST PREFIX MATCH USING BINARY SEARCH TREE
US			14/014,133	2013-08-29	MANAGEABILITY TOOLS FOR LOSSLESS NETWORKS
US			15/650,082	2017-07-14	VIRTUAL MACHINE AND APPLICATION MOVEMENT OVER A WIDE AREA NETWORK
US			14/479,308	2014-09-06	PUBLIC CLOUD DATA AT REST SECURITY
US			13/656,438	2012-10-19	VPLS OVER MULTI-CHASSIS TRUNK
US			14/308,992	2014-06-19	FLEXIBLE FLOW OFFLOAD
EP			14002284.9	2014-07-03	FLEXIBLE FLOW OFFLOAD
US			13/458,919	2012-04-27	DOUBLE STACK COMPACT FLASH CARD CONNECTOR
US	7317689	2008-01-08	10/364,623	2003-02-10	SYSTEM AND METHOD TO ACCESS AND ADDRESS HIGH-SPEED INTERFACE CONVERTER DEVICES
US	7370100	2008-05-06	10/731,972	2003-12-10	METHOD AND APPARATUS FOR LOAD BALANCING BASED ON PACKET HEADER CONTENT
US			12/039,504	2008-02-26	METHOD AND APPARATUS FOR LOAD BALANCING BASED ON PACKET HEADER CONTENT
US	7584301	2009-09-01	10/639,919	2004-05-06	HOST-LEVEL POLICIES FOR GLOBAL SERVER BALANCING
US	7899899	2011-03-01	12/787,779	2010-05-26	CONFIGURABLE GEOGRAPHIC PREFIXES FOR GLOBAL SERVER LOAD BALANCING
US	6894970	2005-05-17	09/703,064	2000-10-31	ROUTER SWITCH FABRIC PROTECTION USING FORWARD ERROR CORRECTION
India			1/16024/2017-CHE	2017-05-04	TEMP/E-ARL RESET ALGORITHM
India			201741031816	2017-09-08	DIAGNOSTIC PORT FOR INTER-SWITCH AND NODE LINK TESTING IN ELECTRICAL, OPTICAL AND REMOTE LOOPBACK MODES
India			201741008580	2017-03-11	SMART CORE DUMP FEATURE FOR OS KERNEL
India			201741008583	2017-03-11	ROUTER IMAGE SNAPSHOT FOR DEVICE RECOVERY
US			62/490,816	2017-04-27	HARDWARE-BASED MANAGEMENT FOR UNSOLICITED MULTICAST PACKETS
US			10/062,125	2002-01-31	NETWORK SECURITY AND APPLICATIONS TO THE FABRIC ENVIRONMENT
EP	2567512	2016-04-13	11721162.3	2011-05-03	VIRTUAL CLUSTER SWITCHING
PCT			PCT/US14/19527	2014-02-28	SPANNING TREE IN FABRIC SWITCHES
US			14/329,767	2014-07-11	MODIFYING NON-TRANSACTIONAL RESOURCES USING A TRANSACTIONAL MEMORY SYSTEM
US			14/510,913	2014-10-09	PERSISTENT STORAGE IN A SWITCH
US			13/231,367	2011-09-13	ABSTRACTING ACCEPTING INTERFACE TO OPTIMIZE PARENT AND CHILD ENTRY LOOKUP FOR BIDIRECTIONAL PIM
US			13/288,822	2011-11-03	TRILL BASED ROUTER REDUNDANCY
US			13/157,942	2011-06-10	END-TO-END VIRTUALIZATION
US			09/666,104	2000-09-20	SECURING AN ACCESS PROVIDER
Israel			135554	2000-04-09	METHOD AND SYSTEM FOR END-TO-END COMMUNICATION THROUGH THE INTERNET TRANSMISSION INFRASTRUCTURE
US			12/705,508	2010-02-12	METHOD AND SYSTEM FOR MONITORING DATA FLOWS IN A NETWORK
US			62/564,855	2017-09-28	POWER SUPPLY ANTI-RECIRCULATION AIRFLOW SYSTEM AND METHOD
India			201741034619	2017-09-28	MULTIPATH INPUT/OUTPUT OPERATIONS FOR VARIED FABRIC CONDITIONS

Country	Patent No.	Grant Date	Application Number	Filed Date	App Title
US			12/575,603	2009-10-08	PARTITIONING OF SWITCHES AND FABRICS INTO LOGICAL SWITCHES AND FABRICS
US			13/092,873	2011-04-22	METHOD AND SYSTEM FOR REMOTE LOAD BALANCING IN HIGH-AVAILABILITY NETWORKS
US			14/867,865	2015-09-28	IP-BASED INTERCONNECTION OF SWITCHES WITH A LOGICAL CHASSIS
China			2014105848553	2014-10-27	VXCS - ETHERNET FABRIC FORMATION BASED ON VXLAN
China			2013800228083	2014-10-31	INTEGRATED HETEROGENEOUS SOFTWARE-DEFINED NETWORK
EP			EP13727465.0	2013-05-20	INTEGRATED HETEROGENEOUS SOFTWARE-DEFINED NETWORK
US			15/678,966	2017-10-11	INTEGRATED HETEROGENEOUS SOFTWARE-DEFINED NETWORK
US			13/899,849	2013-05-22	LAYER-3 OVERLAY GATEWAYS
China			2013800228897	2014-10-31	NETWORK FEEDBACK IN SOFTWARE DEFINED NETWORKS
EP			EP13727447.8	2014-10-21	NETWORK FEEDBACK IN SOFTWARE DEFINED NETWORKS
US	9819572	2017-11-14	14/832,874	2015-08-21	MULTIPLE RING IDENTIFICATION AND CONFIGURATION PROTOCOL
China			2013800547445	2015-04-20	GLOBAL VLANS FOR FABRIC SWITCHES
EP			13762312.0	2015-02-10	GLOBAL VLANS FOR FABRIC SWITCHES
EP			13803332.9	2015-04-24	VIRTUAL LINK AGGREGATIONS ACROSS MULTIPLE FABRIC SWITCHES
China			2013800602033	2015-05-18	VIRTUAL LINK AGGREGATIONS ACROSS MULTIPLE FABRIC SWITCHES
US			13/840,540	2013-03-15	HIGH AVAILABILITY APPLICATION MESSAGING LAYER
US			14/923,327	2015-10-26	ROLE BASED MULTICAST MESSAGING INFRASTRUCTURE
US			13/789,519	2013-03-07	DIAGNOSTIC PORT FOR INTER-SWITCH AND NODE LINK TESTING IN ELECTRICAL, OPTICAL AND REMOTE LOOPBACK MODES
China			201410177000.9	2014-03-07	DIAGNOSTIC PORT FOR INTER-SWITCH AND NODE LINK TESTING IN ELECTRICAL, OPTICAL AND REMOTE LOOPBACK MODES
US			15/194,349	2016-06-27	MAC ADDRESS SYNCHRONIZATION IN A FABRIC SWITCH
US	9774543	2017-09-28	15/705,740	2017-09-15	MAC ADDRESS SYNCHRONIZATION IN A FABRIC SWITCH
EP			14180356.7	2014-10-24	VXCS - ETHERNET FABRIC FORMATION BASED ON VXLAN
PCT			PCT/US16/47075	2016-08-15	IP-BASED INTERCONNECTION OF SWITCHES WITH A LOGICAL CHASSIS
US			14/517,814	2014-10-18	DASHBOARD SUMMARY INDICATORS
US			14/632,762	2015-02-26	WAN TEST TOOL TCP RETRANSMIT DISABLE DURING OPERATION
US			15/261,557	2016-09-09	128 GIGABIT FIBRE CHANNEL SPEED NEGOTIATION
China			201410756114.9	2014-12-10	PRINTED CIRCUIT BOARD WITH AIR FLOW CHANNELS
China			2015102185505	2015-04-30	METHOD AND SYSTEM FOR FACILITATING SWITCH VIRTUALIZATION IN A NETWORK OF INTERCONNECTED SWITCHES
US			14/517,812	2014-10-18	INCREASED FABRIC SCALABILITY BY DESIGNATING SWITCH TYPES
China			201480062722.8	2014-09-30	128 GIGABIT FIBRE CHANNEL SPEED NEGOTIATION
EP			14850808.2	2016-03-31	128 GIGABIT FIBRE CHANNEL SPEED NEGOTIATION
US			15/253,666	2016-08-31	128 GIGABIT FIBRE CHANNEL SPEED NEGOTIATION
China			201480043860.1	2016-03-10	SCALABLE AND SEGREGATED NETWORK VIRTUALIZATION
EP			17181928.7	2017-07-19	SCALABLE AND SEGREGATED NETWORK VIRTUALIZATION
US			14/216,292	2014-03-17	ACTIVE-ACTIVE MCT OPERATION WITH PSEUDOWIRE LOAD BALANCING
US			14/741,066	2015-06-16	NETWORK ARCHITECTURE WITH DISTRIBUTION OF PACKET SERVICES TO VARIOUS SWITCHES
US			14/741,112	2015-06-16	NETWORK DEVICE WITH NETWORK SERVICES PACKET PROCESSING BY SERVICE SOFTWARE INSTANCES
US			14/741,132	2015-06-16	NETWORK DEVICE WITH NETWORK SERVICES PACKET PROCESSING BY SERVICE SOFTWARE INSTANCES
US			14/741,150	2015-06-16	NETWORK DEVICE WITH NETWORK SERVICES PACKET PROCESSING BY SERVICE SOFTWARE INSTANCES
US			15/640,408	2017-06-30	METHOD AND APPARATUS FOR PROVISIONING OF RESOURCES TO SUPPORT APPLICATIONS AND THEIR VARYING DEMANDS
PCT			PCT/US2017/02867		
PCT			3	2017-04-20	Hot-Plug Hardware and Software Implementation
PCT			PCT/US2017/03314		
PCT			2	2017-05-17	HIGH AVAILABILITY FOR VIRTUAL MACHINES
US			15/090,024	2016-04-04	CONSTRAINT-BASED VIRTUAL NETWORK FUNCTION PLACEMENT
PCT			PCT/US17/25146	2017-03-30	CONSTRAINT-BASED VIRTUAL NETWORK FUNCTION PLACEMENT
PCT			PCT/US2017/03314		
PCT			5	2017-05-17	FLEXIBLE COMMAND LINE INTERFACE REDIRECTION
US			15/211,923	2016-07-15	NETWORK ANALYSIS AND MANAGEMENT SYSTEM
PCT			PCT/US2016/52749	2016-11-18	BROCADE IP FABRICS ARCHITECTURE & SOLUTION
US			15/605,181	2017-05-25	NETWORK EVENT LOCUS DESCRIPTOR
US			15/338,088	2016-10-28	LOAD BALANCING OF VXLAN BUM TRAFFIC ACROSS NODES IN DISTRIBUTED ARCHITECTURE FOR NSX/NSX-V
PCT			PCT/US17/26854	2017-04-10	LOAD BALANCING OF VXLAN BUM TRAFFIC ACROSS NODES IN DISTRIBUTED ARCHITECTURE FOR NSX/NSX-V
PCT			PCT/US17/29395	2017-04-25	SELECTIVE RULE MANAGEMENT BASED ON TRAFFIC VISIBILITY IN A TUNNEL
PCT			PCT/US2017/03024		
PCT			4	2017-04-28	Buffer Manager
US			15/605,580	2017-05-25	METHOD AND APPARATUS FOR DETERMINING SYSTEM INFORMATION IN A DEVICE HAVING A PLURALITY OF PROCESSORS, EACH INCLUDING VIRTUAL MACHINES AND SOME LOCATED ON SEPARATE INSERTABLE BOARDS
US			15/493,799	2017-04-21	GENERIC PCIE DEVICE HOT PLUG BASED ON LINUX PLATFORM SUPPORT
PCT			PCT/US17/29814	2017-04-27	GENERIC PCIE DEVICE HOT PLUG BASED ON LINUX PLATFORM SUPPORT
PCT			PCT/US17/29816	2017-04-27	FASTER BUM CONVERGENCE FOR NETWORK EVENTS

Country	Patent No.	Grant Date	Application Number	Filed Date	App Title
			PCT/US2017/02696		
PCT			5	2017-04-21	MULTICHANNEL INPUT/OUTPUT VIRTUALIZATION
US			15/091,319	2016-04-05	DYNAMIC ORCHESTRATION OF NVE OVERLAY TRANSPORT
EP			16001306.6	2016-06-09	INTELLIGENT LOAD BALANCER SELECTION IN A MULTI-LOAD BALANCER ENVIRONMENT
			16777296.1	0000000	
EP			1	2016-04-07	DYNAMIC ORCHESTRATION OF NVE OVERLAY TRANSPORT
EP			16 708 896.2	2016-02-25	FLOW-SPECIFIC FAILURE DETECTION IN SDN NETWORKS
			PCT/US2017/02839		COMMUNICATION FRAMEWORK FOR A FEDERATION OF NETWORK CONTROLLERS
PCT			9	2017-04-19	
US			14/991,855	2016-01-08	PIM FAILOVER FAST RECOVERY
US			14/799,371	2015-07-14	SCALABLE MAC ADDRESS VIRTUALIZATION
China			2015104911889	2015-08-11	CONVERSATIONAL MAC LEARNING
US			14/608,013	2015-01-28	UNIQUE INFORMATION CAPABILITIES
US			14/608,001	2015-01-28	METHOD AND APPARATUS FOR PROVIDING VIRTUAL MACHINE INFORMATION TO A NETWORK INTERFACE
EP			13152480.3	2013-01-24	BUILDING REDUNDANCY INTO OPENFLOW ENABLED NETWORK USING MULTIPLE CHASSIS TRUNKING
China			201380039803.1	2013-06-21	DYNAMIC RESOURCE ALLOCATION FOR VIRTUAL MACHINES
EP			13737020.1	2013-06-21	DYNAMIC RESOURCE ALLOCATION FOR VIRTUAL MACHINES
	ZL				
China	201380016989.9	2018-01-19	2013800169899	2014-09-26	DYNAMIC SERVICE INSERTION IN A FABRIC SWITCH
			13709646.6	9999999	
EP			9	2014-08-27	DYNAMIC SERVICE INSERTION IN A FABRIC SWITCH
China	ZL201380015287.9	2017-11-21	2013800152879	2014-09-19	OVERLAY TUNNEL IN A FABRIC SWITCH
US			13/050,102	2011-03-17	INTERNAL VIRTUAL PRIVATE NETWORK IDENTIFIER
US			15/694,516	2017-10-05	ADVANCED LINK TRACKING FOR VIRTUAL CLUSTER SWITCHING
India			4300/KOLNP/2012	2012-11-06	VIRTUAL CLUSTER SWITCHING
					METHOD AND APPARATUS FOR PROVIDING VIRTUAL MACHINE INFORMATION TO A NETWORK INTERFACE
US			14/183,057	2014-02-18	TO A NETWORK INTERFACE
US			15/184,331	2016-06-27	INLINE WIRE SPEED DEDUPLICATION SYSTEM
US			13/098,490	2011-05-02	FABRIC SWITCHING
US			14/479,304	2014-09-06	METHOD AND SYSTEM FOR GENERATING A NETWORK MONITORING DISPLAY WITH ANIMATED UTILIZATION INFORMATION
US			15/497,026	2017-04-25	FEDERATED MANAGEMENT OF INTELLIGENT SERVICE MODULES
US			15/071,877	2016-03-16	SYSTEM AND METHOD FOR END-TO-END BEACONING
US			15/071,907	2016-03-16	SYSTEM AND METHOD FOR END-TO-END BEACONING
US			14/519,364	2014-10-21	INTERFACE SWITCH FOR USE WITH FIBRE CHANNEL FABRICS IN STORAGE AREA NETWORKS
India			201641042358	2016-12-12	LOSSLESS CONNECTION FAILOVER FOR MIRRORRED DEVICES WITH REDUCED INTER-DEVICE MESSAGING
US			15/811,328	2017-11-13	LOSSLESS CONNECTION FAILOVER FOR MIRRORRED DEVICES WITH REDUCED INTER-DEVICE MESSAGING
US			15/607,030	2017-05-26	INTER-DEVICE MESSAGING
US			15/254,879	2016-09-01	INTELLIGENT HARDWARE-ASSISTED ICMP REQUEST PROCESSING
US			15/238,470	2016-08-16	SYSTEM AND METHOD FOR FLOW MANAGEMENT IN SOFTWARE-DEFINED NETWORKS
PCT			PCT/US16/47200	2016-08-16	PCI EXPRESS CONNECTED NETWORK SWITCH
US			15/233,182	2016-08-10	PCI EXPRESS CONNECTED NETWORK SWITCH
			PCT/US2017/03503		FLOW-BASED HOST DISCOVERY IN SDN NETWORKS
PCT			0	2017-05-30	SOFTWARE KEEP-ALIVE MECHANISM USING KVM
			PCT/US2017/03503		
PCT			2	2017-05-30	SOFTWARE KEEP-ALIVE MECHANISM USING KVM
China			201610004094.9	2016-01-04	DISTRIBUTED BIDIRECTIONAL FORWARDING DETECTION PROTOCOL (D-BFD) FOR CLUSTER OF INTERCONNECTED SWITCHES
EP			16150052.5	2016-01-05	DISTRIBUTED BIDIRECTIONAL FORWARDING DETECTION PROTOCOL (D-BFD) FOR CLUSTER OF INTERCONNECTED SWITCHES
US			14/928,742	2015-10-30	HOT CONNECTION METHOD FOR EGRESS PORT SELECTION IN A HIGH PORT COUNT SWITCH
US			14/662,095	2015-03-18	REDUNDANT VIRTUAL LINK AGGREGATION GROUP
China			201510289270.3	2016-01-27	TECHNIQUES FOR TRANSFORMING LEGACY NETWORKS INTO SDN-ENABLED NETWORKS
US			14/721,978	2015-05-26	TECHNIQUES FOR TRANSFORMING LEGACY NETWORKS INTO SDN-ENABLED NETWORKS
US			15/411,716	2017-01-20	SPANNING TREE IN FABRIC SWITCHES
US			14/266,517	2014-04-30	HIGH AVAILABILITY NETWORKING USING TRANSACTIONAL MEMORY
US			15/402,924	2017-01-10	VXLAN KEEPALIVE MECHANISM
US			14/662,092	2015-03-18	DISTRIBUTED HOT STANDBY LINK FOR VLAG
US			14/329,720	2014-07-11	A MULTI-TRANSACTIONAL SYSTEM USING TRANSACTIONAL MEMORY LOGS
US			15/471,991	2017-03-28	MULTI-TRANSACTIONAL SYSTEM USING TRANSACTIONAL MEMORY LOGS
China			2014800198627	2015-11-07	SPANNING TREE IN FABRIC SWITCHES
EP			14711886.3	2014-02-28	SPANNING TREE IN FABRIC SWITCHES
China			201610899192.3	2016-10-11	VIRTUAL CLUSTER SWITCHING
EP			16155677.4	2016-02-16	VIRTUAL CLUSTER SWITCHING
US			14/912,585	2016-02-17	FABRIC SWITCHING
US			14/854,970	2015-09-15	METHOD AND APPARATUS FOR ROUTING BETWEEN FIBRE CHANNEL FABRICS

Country	Patent No.	Grant Date	Application Number	Filed Date	App Title
Canada			2797278	2012-10-23	VIRTUAL CLUSTER SWITCHING
US			15/811,377	2017-11-13	MULTIPLE SITE ROLLING UPGRADE PROTOCOL
US			12/203,006	2008-09-02	UNIFORM IMPLEMENTATIONS OF NETWORK SECURITY MINIMIZED DISPLAY OF MONITORED EVENTS WITH LIVE SEVERITY LEVEL AND COUNT INDICATIONS
US			13/789,488	2013-03-07	NETWORK VISUALIZATION USING CIRCULAR HEAT MAPS
US			15/605,640	2017-05-25	SETTING THRESHOLDS FOR MONITORING NETWORK ANOMALIES WITHIN A GRAPHICAL USER INTERFACE
US			15/605,710	2017-05-25	MULTI-PATH SWITCHING WITH ARBITRARY LOAD DISTRIBUTION AND IN-ORDER DATA FRAME DELIVERY
US			12/422,776	2009-04-13	FABRIC FORMATION FOR VIRTUAL CLUSTER SWITCHING
US			15/338,201	2016-10-28	STORAGE ACCESS AUTHENTICATION MECHANISM
US			14/479,306	2014-09-06	AUTOMATIC ZONING OF VIRTUAL LOCAL AREA NETWORKS IN A FIBRE CHANNEL FABRIC
US			15/299,741	2016-10-21	SOFT ZONING OF VIRTUAL LOCAL AREA NETWORKS IN A FIBRE CHANNEL FABRIC
US			15/299,756	2016-10-21	HARD ZONING OF VIRTUAL LOCAL AREA NETWORKS IN A FIBRE CHANNEL FABRIC
US			15/299,767	2016-10-21	CANONICAL NAME (CNAME) HANDLING FOR GLOBAL SERVER LOAD BALANCING
US			12/506,137	2009-07-20	DOUBLE STACK COMPACT FLASH CARD CONNECTOR
China			201210195429.1	2012-05-04	IP MULTICAST OVER MULTI-CHASSIS TRUNK
US			14/817,097	2015-08-03	SAN FABRIC ONLINE PATH DIAGNOSTICS SYSTEM AND METHOD FOR CREATING AND COMMUNICATION FREELY ASSOCIATED COLLECTION TO SHARE INFORMATION
US			15/642,186	2017-07-05	METHOD FOR BRIDGING MULTIPLE NETWORK VIEWS
US			13/285,918	2011-10-31	VIRTUAL MACHINE AND APPLICATION MOVEMENT OVER A WIDE AREA NETWORK
US			14/459,176	2014-08-13	VIRTUAL MACHINE AND APPLICATION MOVEMENT OVER A WIDE AREA NETWORK
China	ZL201180062770.3	2017-03-29	201180062770.3	2013-06-26	TWO PORT MEMORY IMPLEMENTED WITH SINGLE-PORT MEMORY BLOCKS
EP			11839291.9-1957	2011-11-11	PARTITIONING OF SWITCHES AND FABRICS INTO LOGICAL SWITCHES AND FABRICS
China	ZL201210278830.1	2018-01-09	201210278830.1	2012-05-30	REMOTE PORT MIRRORING
US			15/144,541	2016-05-02	REMOTE PORT MIRRORING
China			201510768023.1	2015-11-12	VFAB EXTENSION SERVICE
EP			17181921.199999999		VFAB EXTENSION SERVICE
EP			9	2017-07-19	APPLICATION TIMEOUT AWARE TCP LOSS RECOVERY
China			2015102397706	2015-05-12	HIGH GRANULARITY LINK OVERSUBSCRIPTION DETECTION
EP			15167290.4	2015-05-12	COMMAND RESPONSE AND COMPLETION DETERMINATION
US			14/611,669	2015-07-28	FABRIC LATENCY DETERMINATION
US			15/273,968	2016-09-23	HIGH GRANULARITY LINK OVERSUBSCRIPTION DETECTION
US			15/274,167	2016-09-23	ADDRESS RESOLUTION PROTOCOL OPERATION IN A FIBRE CHANNEL FABRIC
US			15/274,184	2016-09-23	USE OF PRIMITIVES TO NOTIFY OF SLOW DRAIN CONDITION
PCT			PCT/US16/53285	2016-09-23	PROGRAM DIRECTED AUTOMATIC POE DEVICE INJECTION IN KVM ENVIRONMENT
US			15/299,734	2016-10-21	SOFTWARE KEEP-ALIVE MECHANISM USING KVM
US			15/857,866	2017-12-29	SOFTWARE KEEP-ALIVE MECHANISM USING KVM
US			15/939,158	2018-03-28	BUFFER MANAGER
US			15/940,750	2018-03-29	BROCADE IP FABRICS ARCHITECTURE & SOLUTION
US			15/940,760	2018-03-29	POLICY BASED AUTOMATIC FLOW COLLECTION DISCOVERY
US			15/941,660	2018-03-30	CONFIGURATION ORCHESTRATION
Germany			112016005600.1	2016-11-18	SYSTEM AND METHOD FOR ROUTER CONNECTION PROTECTION SWITCHING
US			16/047,729	2018-07-27	SYSTEM AND METHOD FOR ROUTER VIRTUAL NETWORKING
US			15/711,644	2017-09-21	TRUNKING INTER-SWITCH LINKS
EP			02253109.9	2002-05-02	METHOD AND APPARATUS FOR RENDERING A CELL-BASED SWITCH USEFUL FOR FRAME BASED APPLICATION PROTOCOLS
EP			02254403.5	2002-06-24	LOSSLESS CONNECTION FAILOVER FOR MIRRORED DEVICES
EP			2747985.6	2002-06-26	PROGRESSIVE MAC ADDRESS LEARNING
EP			EP02749583.7	2002-06-13	HIERARCHICAL RATE COLOR MARKER
EP	2769136	2016-04-25	12855788.1	2012-12-05	DIAGNOSTIC PORT FOR INTER-SWITCH AND NODE LINK TESTING IN ELECTRICAL, OPTICAL AND REMOTE LOOPBACK MODES
EP	2965959	2016-04-25	15180574.4	2015-08-11	MULTIPLE SITE ROLLING UPGRADE PROTOCOL
EP	2377278	2016-03-28	10701411	2011-07-14	RULE-BASED NETWORK IDENTIFIER MAPPING
EP	2775678	2016-05-09	EP14157829	2014-03-05	SYSTEMS AND METHODS FOR CONTEXT-BASED MULTIDIMENSIONAL NETWORK VISUALIZATION
US			62/433,529	2016-12-13	POLICY BASED AUTOMATIC FLOW COLLECTION DISCOVERY
US			62/414,585	2016-10-28	USE OF PRIMITIVES TO NOTIFY OF SLOW DRAIN CONDITION
US			62/673,000	2018-05-17	FCOE VN_PORT TO FC_N_PORT OPERATIONS IN AN ETHERNET FABRIC
US			62/672,475	2018-05-16	TWO PORT MEMORY IMPLEMENTED WITH SINGLE-PORT MEMORY BLOCKS
US			62/443,248	2017-01-06	FCOE SINGLE DOMAIN
US			61/780,700	2013-03-13	VCS - QVS EDGE RBRIDGE
EP	2767980	2016-04-13	12169687.6	2012-05-28	DROPPED FRAME NOTIFICATION
US			61/333,610	2010-05-11	SUPERPING
EP	2940952	2017-11-15	15165029.8	2015-04-24	TWO PORT EDAM
US			62/470,941	2017-03-14	FCOE VN_PORT VIRTUALIZER
US			61/405,925	2010-10-22	
US			61/420,176	2010-12-06	
US			61/808,289	2013-04-04	

Country	Patent No.	Grant Date	Application Number	Filed Date	App Title
US			61/427,437	2010-12-27	METHOD AND SYSTEM FOR REMOTE LOAD BALANCING IN HIGH-AVAILABILITY NETWORKS
US			61/833,385	2013-06-10	VIRTUAL CLUSTER TRILL SOURCE BRIDGE MULTICAST DISTRIBUTION
US			61/874,919	2013-09-06	TRANSPARENT INTER ETHERNET FABRIC SWITCH ROUTING
US			62/439,383	2016-12-27	DAVINCI ENHANCED MASTER ELECTION ALGORITHM IN DISTRIBUTED SYSTEM
US			62/439,770	2016-12-28	DAVINCI L2 MULTITENANCY IN MCT CLUSTER USING NSH TUNNELS
US			62/533,371	2017-07-17	ENHANCED VARIATIONS ON PCIE CONNECTED SWITCHES
PCT			PCT/US11/38234	2011-06-06	REMOTE PORT MIRRORING
EP			11727050.4	2011-06-06	REMOTE PORT MIRRORING
US			61/502,792	2011-06-30	EDGE LOOP DETECTION FOR ETHERNET FABRICS/VCS NETWORK
US			62/420,464	2016-11-10	MCT BUM packet duplication elimination using BGP
US			62/366,934	2016-07-26	MCT BUM packet duplication elimination using BGP
US			62/438,935	2016-12-23	HARDWARE BASED TRAFFIC LOAD BALANCING IN VMWARE NSX FOR VSPHERE (NSX-V) ARCHITECTURE
US			62/576,478	2017-10-24	SYNCHRONIZING MROUTER, QUERIER, AND PIM SNOOPING INFORMATION ACROSS MCT PEERS
US			62/427,383	2016-11-29	LINK SPEED NEGOTIATION AND TRANSMITTER TRAINING FOR FC-PI-7
US			62/443,125	2017-01-06	LINK SPEED NEGOTIATION AND TRANSMITTER TRAINING FOR FC-PI-7
US			62/453,720	2017-02-02	LINK SPEED NEGOTIATION AND TRANSMITTER TRAINING FOR FC-PI-7
US			61/093,196	2008-08-29	DATA CENTER INPUT FLOW BASED FLOW CONTROL
US			60/932,408	2007-05-30	VIRTUAL ROUTER REDUNDANCY PROTOCOL DAMPENING AND SPANNING
PCT			PCT/US11/34917	2011-05-03	MULTIPLE LANS
PCT			PCT/US2010/27999	2010-03-19	VIRTUAL CLUSTER SWITCHING
US			61/244,385	2009-09-21	USING TRILL FOR REDUNDANT CONNECTIONS TO HOST
EP	2412129	2015-07-22	10712624.5	2011-09-23	TECHNIQUES FOR NEXT-HOP OPTIMIZATION
US			61/240,184	2009-09-04	ENHANCED CAPABILITIES ADAPTER WHICH IS RUNTIME SELECTABLE TO FIBRE CHANNEL OR ETHERNET
US			60/989,418	2007-11-20	DUPLICATE ADDRESS DISCOVERY AND ACTION
US			61/014,413	2007-12-17	ADDRESS ASSIGNMENT IN FIBRE CHANNEL OVER ETHERNET ENVIRONMENTS
US			60/953,371	2007-08-01	DATA MIGRATION WITHOUT INTERRUPTING HOST ACCESS
US			61/183,752	2009-03-25	USING TRILL FOR REDUNDANT CONNECTIONS TO HOST
PCT			PCT/US2012/06792	2012-12-05	LOSSLESS CONNECTION FAILOVER FOR MIRRORRED DEVICES
US			61/673,218	2012-07-18	TRACEPATHS SNMP TRAP AND NETWORK MANAGEMENT SOFTWARE
US			61/704,289	2012-09-21	PROCESSING FUNCTIONALITY
US			61/427,034	2010-12-23	FIPS LEVEL-2-COMPLIANT HARDWARE WITHOUT USING OPACITY SHIELD
PCT			PCT/US2012/06792	2012-12-05	PRESERVING QUALITY OF SERVICE ACROSS TRILL NETWORKS
US			61/804,549	2013-03-22	TCP CONNECTION RELOCATION
US			61/799,039	2013-03-15	SMART HOT-PLUG LATCH AND PROTECTION METHOD
US			61/771,531	2013-03-01	SERVER VIRTUALIZATION WITH DYNAMIC ROUTING
US			61/770,745	2013-02-28	SERVER VIRTUALIZATION WITH DYNAMIC ROUTING USING ISIS PROTOCOL
US			61/755,346	2013-01-22	SERVER VIRTUALIZATION WITH DYNAMIC ROUTING USING ISIS PROTOCOL
US			61/867,786	2013-08-20	STANDARD BASE VIRTUALIZATION OF OSPF WITH MCT
US			61/771,723	2013-03-01	BANDWIDTH OPTIMIZATION USING COALESCED DUP ACKS
US			61/845,934	2013-07-12	FACILITATING SPANNING TREE PROTOCOL IN A FABRIC SWITCH
US			61/864,371	2013-08-09	TRANSACTIONAL MANAGEMENT LAYER
US			61/988,141	2014-03-20	TRANSACTIONAL MANAGEMENT LAYER
US			61/955,664	2014-03-19	PROTECTED VLAG: ACTIVE-PASSIVE REDUNDANCY IN VLAG
US			61/902,610	2013-11-11	DISTRIBUTED HOT STANDBY LINK FOR VLAG
US			61/937,950	2013-11-11	DYNAMIC EM POLICY WITH OFFLOAD ENGINE
US			62/037,519	2014-02-10	VXLAN KEEPALIVE MECHANISM
US			61/889,664	2014-08-14	VXLAN KEEPALIVE MECHANISM
US			61/896,331	2013-10-11	BOTTOM RAIL SYSTEMS FOR PLUG-IN MODULES AND FRUS
US			61/900,179	2013-10-31	CASTOR FRONT SLANT PERFORATION
US			61/992,583	2013-11-05	HIGH EFFICIENT POWER SAVING AND COOLING METHOD FOR FIXED FORM-FACTOR CHASSIS SYSTEMS
US			62/005,177	2014-05-13	VFAB EXTENSION SERVICE
US			62/089,028	2014-05-30	METHOD AND IMPLEMENTATION TO TRANSFORM LEGACY NETWORKS TO OPENFLOW ENABLED NETWORK
US			62/089,028	2014-05-30	TECHNIQUES FOR TRANSFORMING LEGACY NETWORKS INTO SDN-ENABLED NETWORKS
US	7254626	2007-08-07	10/206,580	2002-07-25	GLOBAL SERVER LOAD BALANCING
India			201641018590	2016-05-31	SOFTWARE KEEP-ALIVE MECHANISM USING KVM
US			61/315,889	2010-03-19	METHOD AND APPARATUS FOR LINK REDUNDANCY IN VIRTUAL SWITCH
US			62/232,910	2015-09-25	REDUNDANCY PROTOCOL
US			62/247,078	2015-10-27	HIGH GRANULARITY LINK OVERSUBSCRIPTION DETECTION
US			61/440,317	2011-02-07	SYSTEM AND METHOD FOR FLOW BASED HOST DISCOVERY IN PROACTIVELY CONFIGURED SDN NETWORK
US			61/334,391	2010-05-13	QUALITY OF SERVICE IN A HETEROGENEOUS NETWORK
US			61/381,674	2010-09-10	DETERMINATION AND DISPLAY OF LUN ENCRYPTION PATHS
US			62/206,149	2015-08-17	CONGESTION NOTIFICATION AND ROUTERS, FCFS, AND FQ-CO-IO-FC GATEWAYS
US					PCI EXPRESS CONNECTED NETWORK SWITCH

Country	Patent No.	Grant Date	Application Number	Filed Date	App Title
US			61/502,701	2011-08-29	TRILL BASED ROUTER REDUNDANCY
PCT			PCT/US12/64188	2012-11-08	SYSTEM AND METHOD FOR FLOW MANAGEMENT IN SOFTWARE-DEFINED NETWORKS
US			60/227,309	2000-08-24	SECURING AN ACCESSIBLE COMPUTER SYSTEM
EP	2777238	2016-09-21	12795941.9	2014-05-30	SYSTEM AND METHOD FOR FLOW MANAGEMENT IN SOFTWARE-DEFINED NETWORKS
US			60/472,170	2003-05-21	SYSTEM AND METHOD FOR ARP ANTI-SPOOFING SECURITY
US			61/503,263	2011-06-30	EFFICIENT TRILL FORWARD
US			61/481,643	2011-05-02	LAYER-3 SUPPORT IN VIRTUAL CLUSTER SWITCHING
US			61/503,265	2011-06-30	IP ROUTING IN VCS
US			61/502,143	2011-06-28	IGMP SNOOPING IN VCS CLUSTER
US			61/585,210	2012-01-10	PRINTED CIRCUIT BOARD COVER
US			61/558,332	2011-11-10	PER PORT CHAIN FOR OPENFLOW GENERIC MODE FLOWS DATABASE
US			62/342,729	2016-05-27	INTELLIGENT HARDWARE ASSISTANCE FOR SINGLE-THREADED SINGLE-CORE NETWORKING DEVICES TO PROVIDE TIMELY RESPONSE TO ICMP REQUESTS
India			201741026114	2017-07-22	NUMBER OF TCP CONNECTION BASED ON MSS (DETERMINED VIA PMTU_IDF)/THROUGHPUT
US			62/475,653	2017-03-23	BGP AUTO NEIGHBOR DISCOVERY
US			62/528,510	2017-06-29	SR-IOV Access to Switch Internal Components by Vendor VMs
US			61/613,447	2012-03-20	COMPACT FLASH RETAINER
US			61/557,268	2011-11-08	VCS FCODE FC INTERCONNECT
US			61/585,729	2012-01-12	OPTIMIZING MULTICAST ROUTING OVER MULTI-CHASSIS TRUNK
US			61/844,709	2013-07-10	FLEXIBLE FLOW OFFLOAD
US			61/865,525	2013-08-13	FLEXIBLE FLOW OFFLOAD IN A NETWORK DEVICE
US			61/874,259	2013-09-05	FLEXIBLE FLOW OFFLOAD IN A NETWORK DEVICE
US	7266201	2007-09-04	10/246,009	2002-09-17	NON-DISRUPTIVE AUTHENTICATION ADMINISTRATION
US	7313714	2007-12-25	10/671,323	2003-09-24	SYSTEM AND METHOD FOR MANAGING GROUPS OF MODULAR POWER SUPPLIES FOR POWERING SUBCOMPONENTS OF A COMPUTER SYSTEM
US			61/364,941	2010-07-16	CONFIGURATION ORCHESTRATION INFRASTRUCTURE
US			61/446,384	2011-02-24	VIRTUAL PORT WWN
US			61/406,443	2010-10-25	END TO END VIRTUALIZATION WITH MPLS
US			61/466,360	2011-03-22	END-TO-END VIRTUALIZATION
US			61/413,442	2010-11-14	LONG DISTANCE CLOUD MIGRATION
US			61/426,336	2010-12-22	QUEUE SPEED-UP BY USING MULTIPLE LINKED LISTS
US			61/366,828	2010-07-22	LONGEST PREFIX MATCH USING BINARY SEARCH TREE
US			61/431,317	2011-01-10	CONGESTION NOTIFICATION IN PRIVATE VLANS
US			61/428,117	2010-12-30	TECHNIQUES FOR STOPPING ROLLING REBOOTS
US			61/569,186	2011-12-09	ADVANCED MANAGEMENT OF PORT PROFILES: ACTIVE PROFILE PRESENTATION; AMPP AND VM PORT GROUP SYNC
US			61/569,189	2011-12-09	ADVANCED MANAGEMENT OF PORT PROFILES: PORT PROFILE ANALYTICS
US			61/512,863	2011-07-28	LONGEST PREFIX MATCH (LPM) SCHEME
US			61/578,767	2011-12-21	BLADE AND AIR DEFLECTOR IN A PLENUM
US			61/501,660	2011-06-28	CONVERGED WIRELESS LAN
US			61/502,136	2011-06-28	CLEARING FORWARDING ENTRIES DYNAMICALLY AND ENSURING CONSISTENCY OF TABLES ACROSS VCS WITH VLANS
US			61/502,128	2011-06-28	SCALABLE MAC-ADDRESS DISTRIBUTION IN VCS
US			61/488,641	2011-05-20	TECHNIQUES FOR EFFICIENTLY UPDATING ROUTING INFORMATION
US			61/535,901	2011-09-16	MULTICAST ROUTE CACHE SYSTEM
US			61/529,207	2011-08-30	PUBLIC CLOUD DATA AT REST SECURITY AND STORAGE ACCESS AUTHENTICATION MECHANISM
US			61/502,115	2011-06-28	SPANNING TREE BASED LOOP DETECTION OVER ETHERNET FABRICS/VCS NETWORKS
US			61/528,683	2011-08-29	METHOD FOR PROVIDING END-TO-END LOSSLESS ETHERNET IN ETHERNET FABRIC/VCS
US			61/524,296	2011-08-16	FASTER LOCAL REPAIR FOR TRANSIT FRR RSVP LSPS
US			61/567,288	2011-12-06	FLOW-BASED TCP
US			61/567,281	2011-12-06	DISTRIBUTED DICTIONARIES IN DEDUPLICATION DEVICES
US			61/547,586	2011-10-14	MECHANISM TO AVOID UNDESIRE L2 ETHERNET FORWARDING
PCT			PCT/US2011/06036	2011-11-11	VIRTUAL MACHINE AND APPLICATION MOVEMENT OVER A WIDE AREA NETWORK
US			61/550,285	2011-10-21	SUPPORTING L2VPN/MPLS FUNCTIONALITY WITH ACTIVE-ACTIVE MCI ATTACHMENT CIRCUITS/END-POINTS
US			60/998,410	2007-10-09	MONITORING SERVER LOAD BALANCING
US			60/999,349	2007-11-20	A VIRTUAL ROUTER WITH A PRIORITY VALUE PER PORT
US			60/239,307	2000-10-10	EMBEDDED ARCHITECTURE FOR HARDWARE ACCELERATION OF WIRELESS TRAFFIC MANAGEMENT
US			60/239,433	2000-10-10	EMBEDDED ARCHITECTURE FOR HARDWARE PROCESSING OF WIRELESS DATA CONTENT
US			60/239,503	2000-10-10	MULTIPROTOCOL WIRELESS GATEWAY
US			60/330,330	2001-10-19	A TRANSACTION ORIENTED SIGNALING GATEWAY
US			61/244,393	2009-09-21	PROVISIONING USING ETHERNET SERVICE INSTANCES IN A SINGLE OR A MULTISTAGE NETWORK
US			60/527,266	2003-12-05	SYSTEM AND METHOD FOR FLEXIBLE AUTHENTICATION IN A DATA COMMUNICATIONS NETWORK
US			60/623,435	2004-10-29	DOUBLE DENSITY CONTENT ADDRESSABLE MEMORY (CAM) LOOKUP SCHEME
US			60/754,734	2005-12-28	MAC-BASED AUTHENTICATION

Country	Patent No.	Grant Date	Application Number	Filed Date	App Title
US			60/623,268	2004-10-29	DEVELOPMENT
US			60/754,736	2005-12-28	ATTACK PREVENTION TECHNIQUES
US			60/762,283	2006-01-25	HITLESS SOFTWARE UPGRADE TECHNIQUES
US			60/754,932	2005-12-28	HITLESS SOFTWARE UPGRADE
US			60/931,798	2007-05-24	MANAGING NETWORK SECURITY
US			60/931,736	2007-05-24	GENERATING DEVICE-SPECIFIC CONFIGURATIONS
US			61/483,038	2011-05-05	DOUBLE STACK COMPACT FLASH CARD CONNECTOR
US	7840678	2010-11-23	12/506,130	2009-07-20	HOST-LEVEL POLICIES FOR GLOBAL SERVER BALANCING
US	7423977	2008-09-09	10/924,552	2004-08-24	SMOOTHING ALGORITHM FOR ROUND TRIP TIME (RTT) MEASUREMENTS
US			61/186,378	2009-08-12	VIRTUAL ROUTER REDUNDANCY FOR SERVER VIRTUALIZATION
US			61/268,474	2009-06-11	VIRTUAL ROUTER REDUNDANCY FOR SERVER VIRTUALIZATION
US			61/186,364	2009-06-11	VRRP-E EXTENSION FOR SERVER VIRTUALIZATION
US			60/472,158	2003-05-21	SYSTEM AND METHOD FOR SOURCE IP ANTI-SPOOFING SECURITY
US			61/867,667	2013-08-20	VIRTUAL MACHINE TRAFFIC ENGINEERING
US			61/751,803	2013-01-11	MAC ADDRESS SYNCHRONIZATION IN A FABRIC SWITCH
US			61/751,798	2013-01-11	MULTICAST TRAFFIC LOAD BALANCING OVER VIRTUAL LAG
US			61/751,808	2013-01-11	PROTECTION SWITCHING IN DISTRIBUTED LINK AGGREGATION
US			61/752,856	2013-01-15	ADAPTIVE LINK AGGREGATION AND VIRTUAL LINK AGGREGATION
US			61/721,971	2012-11-02	IDENTIFICATION IN SWITCHES AND ROUTERS
US			61/704,930	2012-09-24	CHASSIS BASED MULTICAST MESSAGING INFRASTRUCTURE
US			61/769,084	2013-02-25	TECHNIQUES FOR CUSTOMIZING FORWARDING DECISIONS VIA A HARDWARE LOOKUP RESULT
US			61/379,150	2010-09-01	DIAGNOSTIC PORT FOR INTER-SWITCH LINK TESTING IN ELECTRICAL, OPTICAL AND REMOTE LOOPBACK MODES
US			61/697,211	2012-08-05	MAC FLUSH OPTIMIZATIONS FOR ETHERNET RINGS
US			61/811,112	2013-04-11	MAC FLUSH OPTIMIZATIONS FOR ETHERNET RINGS
PCT			PCT/US13/41191	2013-05-15	NETWORK FEEDBACK IN SOFTWARE DEFINED NETWORKS
PCT			PCT/US13/56044	2013-08-21	GLOBAL VLANS FOR FABRIC SWITCHES
PCT			PCT/US13/70435	2013-11-15	VIRTUAL LINK AGGREGATIONS ACROSS MULTIPLE FABRIC SWITCHES
US			61/727,478	2012-11-16	VIRTUAL LINK AGGREGATIONS ACROSS MULTIPLE FABRIC SWITCHES
US			61/691,723	2012-08-21	GLOBAL VLANS FOR FABRIC SWITCH
US			61/697,207	2012-08-05	MULTIPLE RING IDENTIFICATION AND CONFIGURATION PROTOCOL
US			61/667,704	2012-07-03	PERVASIVE NETWORK DIAGNOSTICS USING HBAS
US			61/664,552	2012-06-26	LOCALIZATION OF FFFF
US			61/655,130	2012-06-04	PERFORMANCE ESTIMATOR FOR NETWORK DEVICES
US			61/650,906	2012-05-23	TERABIT TOP-OF-RACK SWITCH
US			61/640,872	2012-04-30	METHOD FOR DEFENDING DDOS ATTACK
US			61/666,668	2012-06-29	SYNCOOKIE IN DSR MODE
US			61/799,218	2013-03-15	TECHNIQUES FOR PROTECTING AGAINST DENIAL OF SERVICE ATTACKS
US			61/649,034	2012-05-18	SOFTWARE DEFINED NETWORKS
US			61/785,625	2013-03-14	INTEGRATED HETEROGENEOUS SOFTWARE-DEFINED NETWORK
US			61/650,945	2012-05-23	INTEGRATED OVERFLOW PROVISIONING AND MANAGEMENT PLATFORM FOR EXISTING ROUTING/SWITCHING
PCT			PCT/US13/42238	2013-05-22	LAYER-3 OVERLAY GATEWAYS
EP	2853066	2017-02-22	EP13728044.2	2014-10-21	LAYER-3 OVERLAY GATEWAYS
PCT			PCT/US13/41891	2013-05-20	INTEGRATED HETEROGENEOUS SOFTWARE-DEFINED NETWORK
US			61/650,943	2012-05-23	L3 OVERLAY GATEWAYS
US			61/874,183	2013-09-05	HARDWARE-ASSISTED APPLICATION TRAFFIC PRIORITIZATION
US			61/856,469	2013-07-19	HARDWARE-ASSISTED APPLICATION TRAFFIC PRIORITIZATION
US			61/806,668	2013-03-29	HARDWARE-ASSISTED APPLICATION TRAFFIC PRIORITIZATION
US			61/798,906	2013-03-15	ACTIVE-ACTIVE MCT OPERATION WITH PSEUDOWIRE LOAD BALANCING
US			61/833,376	2013-06-10	VCS DATA CENTER DOMAIN FOR MULTI-TENANT NETWORK VIRTUALIZATION, SEGREGATION AND DEFINED VM MIGRATION
EP	3008860	2017-08-30	14738940.7	2016-01-06	SCALABLE AND SEGREGATED NETWORK VIRTUALIZATION
US			61/755,350	2013-01-22	SERVER VIRTUALIZATION WITH DYNAMIC ROUTING
US			61/794,057	2013-03-15	SCALABLE DISTRIBUTED TUNNEL GATEWAY FOR FABRIC SWITCH
US			61/896,544	2013-10-28	VXCS - ETHERNET FABRIC FORMATION BASED ON VXLAN
US			61/815,685	2013-04-24	SCALABLE AND EFFICIENT FLOW-AWARE PACKET DISTRIBUTION METHOD AND APPARATUS FOR END-TO-END NETWORK BANDWIDTH OPTIMIZATION LEVERAGING INTELLIGENT FLOW-AWARE RESOURCE
US			61/832,655	2013-06-07	ALLOCATION SCHEME USING SOFTWARE DEFINED NETWORKING
US			61/880,017	2013-09-19	128GB FCP ARCHITECTURE
US			61/863,309	2013-08-07	128GB FCP ARCHITECTURE
US			61/862,451	2013-08-05	128GB FCP ARCHITECTURE
US			61/839,349	2013-06-25	128GB FCP ARCHITECTURE
US			61/866,750	2013-10-04	128GB FCP ARCHITECTURE
US			61/909,042	2013-11-26	128GB FCP ARCHITECTURE
US			61/986,798	2014-04-30	VCS - OVS EDGE BRIDGE
US			61/914,243	2013-12-10	PRINTED CIRCUIT BOARD WITH AIR FLOW CHANNELS
US			62/030,532	2014-07-29	DATA CENTER VIRTUALIZATION OVER FABRIC TUNNELS

Country	Patent No.	Grant Date	Application Number	Filed Date	App Title
US			62/219,572	2015-09-16	IP-BASED INTERCONNECTION OF SWITCHES WITH A LOGICAL CHASSIS
US			61/889,312	2013-10-10	END-TO-END CREDIT RECOVERY
US			61/704,281	2012-09-21	HA APPLICATION MESSAGING LAYER
US			61/856,293	2013-07-19	EDGE EXTENSION OF ETHERNET FABRIC SWITCH
US			61/896,762	2013-10-25	VIP CLONING
US			61/920,190	2013-12-23	EJECTOR AND CABLE MANAGEMENT SYSTEM AND METHOD
US			61/915,986	2013-12-13	FLOATING DAUGHTER CARD SYSTEM AND METHOD
US			61/895,755	2013-10-25	CABLE CASSETTE COVER AND METHOD
US			61/895,746	2013-10-25	CABLE BACKPLANE ASSEMBLY AND METHOD
US			61/915,975	2013-12-13	CABLE BACKPLANE CASSETTE AIR FLOW SYSTEM AND METHOD
US			61/295,143	2010-01-14	HIERARCHICAL BANDWIDTH PROFILER: STRICT PRIORITY MODE WITH DIRECTIONAL COUPLING USING A BOTTOM-UP OPTION
US			61/253,791	2009-10-21	HIERARCHICAL BANDWIDTH PROFILE ALGORITHM IMPLEMENTATION
US			61/251,139	2009-10-13	HIERARCHICAL BANDWIDTH PROFILE ALGORITHM IMPLEMENTATION
US			61/225,483	2009-07-14	A HIERARCHICAL RATE COLOR MARKER SUPPORTING WEIGHTED ROUND ROBIN DISTRIBUTION OF UNUSED BANDWIDTH
US			61/146,477	2009-01-22	AN ENHANCED HIERARCHICAL RATE COLOR MARKER
US			61/143,585	2009-01-09	A HIERARCHICAL RATE COLOR MARKER
US			61/353,811	2010-06-11	HIERARCHICAL BANDWIDTH PROFILE ALGORITHM: STRICT PRIORITY
US			62/343,744	2016-05-31	HIGH AVAILABILITY FOR VIRTUAL MACHINES
PCT			PCT/US10/20354	2010-01-07	"HIGH AVAILABILITY FOR KVM GUEST"
US			60/249,871	2000-11-17	HIERARCHICAL RATE COLOR MARKER
US	6697368	2004-02-24	09/855,031	2001-05-15	METHOD AND APPARATUS FOR DATA TRAFFIC MANAGEMENT
US			61/380,831	2010-09-08	HIGH PERFORMANCE NETWORK SWITCH
US			61/350,830	2010-06-02	PATH DETECTION IN TRILL NETWORKS
US			61/350,827	2010-06-02	PATH DETECTION IN TRILL NETWORKS
US			61/360,814	2010-06-02	REACHABILITY DETECTION IN TRILL NETWORKS
US			61/360,814	2010-09-08	REACHABILITY DETECTION IN TRILL NETWORKS
US			61/362,720	2010-06-08	REACHABILITY DETECTION IN TRILL NETWORKS
US			61/393,796	2010-10-15	METHOD AND SYSTEM FOR LINK AGGREGATION ACROSS MULTIPLE SWITCHES
US			61/357,692	2010-06-23	DOMAIN NAME SYSTEM SECURITY EXTENSIONS (DNSSEC) FOR GLOBAL SERVER LOAD BALANCING
US			61/502,692	2011-06-29	METHOD AND APPARATUS FOR PROVISIONING OF RESOURCES TO SUPPORT APPLICATIONS AND THEIR VARYING DEMANDS
US			61/325,040	2010-04-16	PIM-BIDIR DESIGN
US			61/319,348	2010-03-31	NETWORK SWITCHES WITH VIRTUAL MACHINES AND SIMPLIFIED DISTRIBUTION
US			61/319,348	2010-03-31	NETWORK SWITCHES WITH VIRTUAL MACHINES AND SIMPLIFIED DISTRIBUTION
US			62/044,852	2014-09-02	MODEL DRIVEN AND QRM BASED CONFIGURATION MANAGEMENT ACROSS VCS FABRIC OF SWITCHES - UNIFIED MANAGEMENT ACROSS NORTH BOUND INTERFACES
US			62/031,746	2014-07-31	SPANNING TREE PROTOCOL IN FABRIC SWITCH SUPPORTING GLOBAL VLAN DISTRIBUTED BIDIRECTIONAL FORWARDING DETECTION PROTOCOL (D-BFD)
US			62/099,983	2015-01-05	FOR VCS CLUSTER
US			62/099,974	2015-01-05	POWER SAVING FEATURE FOR ISLS IN A FABRIC
US			62/141,672	2015-04-01	TECHNIQUES FOR FACILITATING PORT MIRRORING IN VIRTUAL NETWORKS
US			62/136,922	2015-03-23	INCREASING RESILIENCY IN SDN NETWORKS
US			62/035,901	2014-08-11	CONVERSATIONAL MAC LEARNING
US			62/042,076	2014-08-26	CONVERSATIONAL MAC LEARNING
US			62/084,463	2014-11-26	MULTI CONNECTION METHOD FOR EGRESS PORT SELECTION IN A HIGH PORT COUNT SWITCH
US			62/173,281	2015-05-09	FAA MCAST
US			62/199,931	2015-07-31	PIM FAILOVER FAST RECOVERY (OLD 3393)
US			62/144,709	2015-04-08	DYNAMIC ORCHESTRATION OF NVE OVERLAY TRANSPORT
US			62/325,355	2016-04-20	COMMUNICATION FRAMEWORK FOR A FEDERATION OF NETWORK CONTROLLERS
US			62/191,073	2015-07-10	POLICY-BASED SMART LOAD BALANCER SELECTION IN A MULTI-LOAD BALANCER ENVIRONMENT
US			62/287,736	2016-01-27	Z-STEPPED PARALLEL FAN FRU AND METHOD
US			62/193,998	2015-07-17	MACHINE LEARNING BASED NETWORK MONITORING AND MANAGEMENT
US			62/343,812	2016-05-31	PROGRAM DIRECTED AUTOMATIC PCIE DEVICE INJECTION IN KVM ENVIRONMENT
US			62/343,733	2016-05-31	PROGRAM DIRECTED AUTOMATIC PCIE DEVICE INJECTION IN KVM ENVIRONMENT
US			62/343,811	2016-05-31	MULTICHANNEL INPUT/OUTPUT VIRTUALIZATION
US			62/343,726	2016-05-31	MULTICHANNEL INPUT/OUTPUT VIRTUALIZATION
US			62/341,945	2016-05-26	FASTER BUM CONVERGENCE FOR NETWORK EVENTS
US			62/343,559	2016-05-31	INTELLIGENT BUFFERING & ADAPTIVE SYNCHRONIZATION OF DATA IN CONGESTION SCENARIO FOR HIGH SCALABLE NETWORKS
US			62/340,957	2016-05-24	GENERIC PCIE DEVICE HOT PLUG BASED ON LINUX PLATFORM SUPPORT
US			62/344,841	2016-06-02	USING PYTHON BASED CPU/IO STATS TOOL AS STANDALONE UTILITY AND LIBRARY WITH NOCLI BACKEND TO DISPLAY THE STATS
India		201641018588		2016-05-31	BUFFERING FRAMEWORK TO TRACK DMA BUFFER USAGE SHARED BY MULTIPLE USERS AND LIMIT BUFFER USAGE PER USER IN MULTI-PROCESS ENVIRONMENT
US		62/299,891		2016-02-25	RUNTIME CONFIGURATION OF SERVLET FILTERING USING DYNAMIC INJECTION

Country	Patent No.	Grant Date	Application Number	Filed Date	App Title
India			201641013840	2016-04-21	LOAD BALANCING OF VLAN BUM TRAFFIC ACROSS NODES IN DISTRIBUTED ARCHITECTURE FOR NSX/NSX-V
US			62/351,215	2016-06-16	NETWORK EVENT LOCUS DESCRIPTOR
US			62/204,388	2015-08-12	SUN-BASED MIRRORING OF TRAFFIC FLOWS FOR IN-BAND NETWORK ANALYTICS
US			62/264,267	2015-12-07	BROCADE IP FABRICS ARCHITECTURE & SOLUTION
US			62/343,539	2016-05-31	OVERLAY TRANSIT NODE ANOMOLY DETECTION EVENT BASED MITIGATION
US			62/343,550	2016-05-31	OVERLAY TRANSIT NETWORK CORRELATION VISIBILITY APPLICATION
US			62/343,762	2016-05-31	FLEXIBLE COMMAND LINE INTERFACE REDIRECTION
US			61/666,227	2012-06-29	DYNAMIC RESOURCE ALLOCATION FOR VIRTUAL MACHINES
PCT			PCT/US2012/06791		
US			4	2012-12-05	LOSSLESS CONNECTION FAILOVER FOR MIRRORED DEVICES
US			61/665,190	2012-06-27	NETWORK MONITORING AND DIAGNOSTICS
US			61/591,227	2012-01-26	BUILDING REDUNDANCY INTO OPENFLOW ENABLED NETWORK USING MULTI-CHASSIS TRUNKING
US			61/658,330	2012-06-11	HIGH AVAILABILITY AND FACILITATING LINK AGGREGATION FOR OPENFLOW
US			61/589,780	2012-01-23	TRANSPARENT HIGH AVAILABILITY FOR STATEFUL SERVICES
EP	2629031	2017-08-09	13715074.4	2013-03-19	OVERLAY TUNNEL IN A FABRIC SWITCH
US			61/850,380	2012-05-22	DEBUGGING FRAMEWORK
US			61/612,123	2012-03-16	81-L2-TRACEROUTE
US			61/614,392	2012-03-22	OVERLAY L2/L3 FABRIC ARCHITECTURE
US			61/603,817	2012-02-27	DYNAMIC SERVICE INSERTION IN ETHERNET FABRIC SWITCH
PCT			PCT/US13/27812	2013-02-26	DYNAMIC SERVICE INSERTION IN A FABRIC SWITCH
PCT			PCT/US13/33011	2013-03-19	OVERLAY TUNNEL IN A FABRIC SWITCH
US			61/380,820	2010-09-08	REMOTE PORT MONITORING IN TRILL NETWORKS
US			61/352,790	2010-06-08	REMOTE PORT MONITORING IN TRILL NETWORKS
US			61/427,044	2010-12-23	NETWORK LAYER MULTICASTING IN TRILL NETWORKS
US			61/352,723	2010-06-08	LAYER 3 MULTICAST WITH TRILL
US			61/352,746	2010-06-08	PRESERVING QUALITY OF SERVICE ACROSS TRILL AND Q-IN-Q NETWORKS
US			61/427,057	2010-12-23	SUPPORTING MULTIPLE MULTICAST TREES IN TRILL NETWORKS
US			61/352,726	2010-06-08	TRILL MULTICAST TREES
US			61/427,050	2010-12-23	FLOODING PACKETS ON A PER-VIRTUAL-NETWORK BASIS
US			61/352,727	2010-06-08	PER-VPN FLOODING
US			61/381,353	2010-09-09	INTERNAL VIRTUAL PRIVATE NETWORK IDENTIFIER
US			61/352,731	2010-06-08	INTERNAL VIRTUAL PRIVATE NETWORK IDENTIFIER
US			61/315,808	2010-03-19	HITLESS UPGRADES FOR MULTICAST
US			61/315,757	2010-03-19	TECHNIQUES FOR SYNCHRONIZING APPLICATION OBJECT INSTANCES
US			61/567,285	2011-12-08	TCP CONNECTION RELOCATION
US			61/567,282	2011-12-08	LOSSLESS CONNECTION FAILOVER FOR SINGLE AND MIRRORED DEVICES
US			60/446,558	2003-02-12	ARCHITECTURE AND API FOR OF TRANSPORT AND UPPER LAYER PROTOCOL PROCESSING ACCELERATION
US			60/452,969	2003-03-10	VIRTUAL WRITE BUFFERS FOR ACCELERATED MEMORY AND STORAGE ACCESS
US			61/002,252	2007-11-07	ADAPTIVE NETWORKING ADVANCED DATA CENTER FABRIC TECHNOLOGY
US			60/415,002	2002-09-30	METHOD FOR DISPLAYING NETWORK CHARACTERISTICS USING AN ANIMATED LEGEND
US			60/415,001	2002-09-30	METHOD FOR DISPLAYING PERFORMANCE PARAMETERS OF A STORAGE AREA NETWORK
US			60/123,606	1999-03-10	METHODS AND APPARATUS FOR TRANSFERRING DATA BETWEEN IP NETWORK DEVICES AND SCSI AND FIBRE CHANNEL DEVICES OVER AN IP NETWORK
US			60/368,582	2002-03-29	NETWORK CONGESTION MANAGEMENT SYSTEMS AND METHODS
US			61/380,819	2010-09-08	VIRTUAL CLUSTER SWITCHING
US			61/330,678	2010-05-03	VIRTUAL CLUSTER SWITCHING
US			61/334,945	2010-05-14	VIRTUAL CLUSTER SWITCHING
US			61/380,807	2010-09-08	FABRIC FORMATION FOR VIRTUAL CLUSTER SWITCHING
US			61/345,953	2010-05-18	FABRIC FORMATION FOR VIRTUAL CLUSTER SWITCHING
US			61/380,818	2010-09-08	DISTRIBUTED CONFIGURATION MANAGEMENT FOR VIRTUAL CLUSTER SWITCHING
US			61/349,803	2010-05-28	DISTRIBUTED CONFIGURATION MANAGEMENT FOR VIRTUAL CLUSTER SWITCHING
US			61/350,838	2010-06-02	PORT PROFILE MANAGEMENT FOR VIRTUAL CLUSTER SWITCHING
US			61/352,255	2010-06-07	ADVANCED LINK TRACKING FOR VIRTUAL CLUSTER SWITCHING
US			61/352,776	2010-06-08	VIRTUAL PORT GROUPING FOR VIRTUAL CLUSTER SWITCHING
US			61/380,803	2010-09-08	NAME SERVICES FOR VIRTUAL CLUSTER SWITCHING
US			61/352,264	2010-06-07	NAME SERVICES FOR VIRTUAL CLUSTER SWITCHING
US			61/352,819	2010-06-08	TRAFFIC MANAGEMENT FOR VIRTUAL CLUSTER SWITCHING
US			61/333,866	2010-05-11	CONVERGED NETWORK EXTENSION
US			60/502,367	2003-09-12	NEW RSCN FORMAT
US			60/621,890	2004-10-26	APPARATUS AND METHOD FOR PERFORMING CYCLIC REDUNDANCY CHECK (CRC) ON PARTIAL PROTOCOL DATA UNITS (PDUs)
US			61/242,759	2009-09-15	OPTICAL TRANSCEIVER MODULE WITH ENHANCED CIRCUITRY
US			61/228,127	2009-07-23	VIRTUAL MACHINE IDENTIFICATION IN PACKETS TRANSMITTED OVER A NETWORK

Country	Patent No.	Grant Date	Application Number	Filed Date	App Title
US			60/297,454	2001-08-13	METHOD AND APPARATUS FOR RENDERING A CELL-BASED SWITCH USEFUL FOR FRAME BASED APPLICATION PROTOCOLS
US			60/209,227	2000-08-02	DATA BUFFER EXTENSION AND ADDRESS MAPPING IN A FIBRE CHANNEL SWITCH
US			60/209,226	2000-08-02	FIBRE CHANNEL ADDRESS ADAPTOR
US			60/223,522	2000-08-07	FIBRE CHANNEL ARCHITECTURE
US			60/332,186	2001-11-16	FRAME BATCHING
US			60/357,920	2002-02-19	REAL-TIME TRANSPORT COMPRESSION
US			60/286,399	2001-04-24	TOPOLOGY FOR LARGE PORT COUNT SWITCH
US			60/396,698	2002-07-18	NETWORK TESTING METHOD
US			60/422,736	2002-10-31	NETWORK MONITORING UTILIZING TEST DATA ANALYSIS METHOD AND CIRCUIT FOR REPLICATING DATA IN A FIBRE CHANNEL
US			60/239,736	2000-10-11	NETWORK, OR THE LIKE
US	7042642	2006-05-09	10/873,532	2004-08-21	FIBRE CHANNEL SWITCH
US			60/581,831	2004-06-21	DATA SWITCH
US			60/108,866	1998-11-17	HIGH SPEED LINKING MODULE
US			60/126,825	1999-03-30	INTERCONNECTION ARCHITECTURE FOR MANAGING MULTIPLE CONNECTIONS OVER A FIBRE CHANNEL LINK
US			60/569,099	2004-07-19	PROXY ZONING
US			60/424,333	2002-11-07	METHOD AND APPARATUS FOR CONFIGURING A PROGRAMMABLE LOGIC DEVICE
US			60/584,806	2004-07-01	CROSS-NETWORK CONNECTIVITY TABLES
US			60/228,546	2000-08-28	STORAGE NETWORK CONTROL PROGRAM ARCHITECTURE FOR DYNAMIC INCORPORATION OF DEVICE DEPENDENT MODULES FOR DEVICES DISCOVERED DURING A NETWORK SCAN
US			60/228,547	2000-08-28	METHOD FOR SIMPLIFYING DISPLAY COMPLEX NETWORK CONNECTIONS THROUGH PARTIAL OVERLAP OF CONNECTIONS IN DISPLAYED SEGMENTS
US			60/228,515	2000-08-28	METHOD FOR DISPLAYING SWITCH PORT INFORMATION IN A NETWORK TOPOLOGY DISPLAY
US			60/228,516	2000-08-28	METHOD FOR DISPLAYING REDUNDANT CONNECTIONS IN A NETWORK TOPOLOGY DISPLAY
US			60/639,854	2004-12-27	COMPUTER SYSTEM PERSISTENT STATE MANAGEMENT AND INSTANTIATION
US			60/286,213	2001-04-24	QUALITY OF SERVICE USING VIRTUAL CHANNEL TRANSLATION
US			60/393,047	2002-06-08	APPARATUS AND METHOD FOR ROUTING TRAFFIC IN A MULTILINK SWITCH
US			60/392,410	2002-06-28	APPARATUS AND METHOD FOR MANAGING A STORAGE PROCESSING DEVICE APPARATUS AND METHOD FOR DATA MIGRATION IN A STORAGE PROCESSING DEVICE
US			60/392,408	2002-06-28	APPARATUS AND METHOD FOR INTERNET PROTOCOL DATA PROCESSING IN A STORAGE PROCESSING DEVICE
US			60/392,396	2002-06-28	APPARATUS AND METHOD FOR FIBRE CHANNEL DATA PROCESSING IN A STORAGE PROCESSING DEVICE
US			60/392,873	2002-06-28	APPARATUS AND METHOD FOR DATA VIRTUALIZATION IN A STORAGE PROCESSING DEVICE
US			60/393,046	2002-06-28	PROCESSING DEVICE
US			60/393,017	2002-06-28	APPARATUS AND METHOD FOR STORAGE PROCESSING WITH SPLIT DATA AND CONTROL PATHS
US			60/393,000	2002-06-28	APPARATUS AND METHOD FOR DATA SNAPSHOT PROCESSING IN A STORAGE PROCESSING DEVICE
US			60/392,454	2002-06-28	APPARATUS AND METHOD FOR DATA REPLICATION IN A STORAGE PROCESSING DEVICE
US			60/392,816	2002-06-28	APPARATUS AND METHOD FOR STORAGE PROCESSING THROUGH SCALABLE PORT PROCESSORS
US			60/286,046	2001-04-23	LINK TRUNKING AND MEASURING LINK LATENCY IN FIBRE CHANNEL FABRIC
US			60/106,423	1998-10-23	ZONING
US			60/290,267	2001-05-10	SYSTEM AND METHOD FOR STORING AND RETRIEVING MULTISPEED DATA STREAMS WITHIN A NETWORK SWITCH
US			60/284,759	2001-04-18	FRAME FILTERING, LUN LEVEL ZONING AND PERFORMANCE MONITORING
US			60/327,676	2001-10-06	FRAME FILTERING AND LUN LEVEL ZONING
US			60/283,697	2001-04-12	ADAPTIVE ALGORITHM FOR IN-ORDER DELIVERY OF FRAMES DURING TOPOLOGY CHANGES
US			60/273,009	2001-03-03	MANAGEMENT OF MULTIPLE NETWORK DEVICES USING UNSIGNED JAVA APPLET
US	6961938	2005-11-01	09/892,322	2001-06-26	MANAGEMENT OF MULTIPLE NETWORK DEVICES USING UNSIGNED JAVA APPLET
US	7243367	2007-07-10	10/062,860	2002-01-31	METHOD AND APPARATUS FOR STARTING UP A NETWORK OR FABRIC
US	7583681	2009-09-01	10/208,425	2002-07-30	METHOD AND APPARATUS FOR ESTABLISHING METAZONES ACROSS DISSIMILAR NETWORKS
US	8040914	2011-10-18	11/765,111	2007-05-30	METHOD AND APPARATUS FOR ESTABLISHING METAZONES ACROSS DISSIMILAR NETWORKS
US	8116339	2012-02-14	12/506,413	2009-07-21	METHOD AND APPARATUS FOR ESTABLISHING METAZONES ACROSS DISSIMILAR NETWORKS
US	8660141	2014-02-25	13/347,873	2012-01-11	METHOD AND APPARATUS FOR ESTABLISHING METAZONES ACROSS DISSIMILAR NETWORKS
US	7671261	2009-08-04	11/457,737	2006-07-14	SERVICE INTERFACE FOR FIBRE CHANNEL FABRIC SNAPSHOT SERVICE
US	7620742	2009-11-17	11/457,744	2006-07-14	WRITE CAPTURE FOR FIBRE CHANNEL FABRIC SNAPSHOT SERVICE
US	7516245	2009-04-07	11/457,766	2006-07-14	FABRIC WITH FIBRE CHANNEL FABRIC SNAPSHOT SERVICE
US	7865627	2011-01-04	12/576,039	2009-10-08	FIBRE CHANNEL FABRIC SNAPSHOT SERVER
US	7474652	2009-01-06	10/208,427	2002-07-30	CACHING REMOTE SWITCH INFORMATION IN A FIBRE CHANNEL SWITCH
US	8135009	2012-03-13	12/342,818	2008-12-23	CACHING REMOTE SWITCH INFORMATION IN A FIBRE CHANNEL SWITCH
US	8599847	2013-12-03	13/363,758	2012-02-01	CACHING REMOTE SWITCH INFORMATION IN A FIBRE CHANNEL SWITCH
US	8055731	2011-11-08	10/284,434	2002-10-30	NETWORK MERGE TESTING
US	8589520	2013-11-19	13/251,810	2011-10-03	NETWORK MERGE TESTING

Country	Patent No.	Grant Date	Application Number	Filed Date	App Title
US	7769902	2010-08-03	19/210,019	2002-07-31	IMPROVED TOPOLOGY DATABASE SYNCHRONIZATION
US	8315188	2012-11-20	12/749,822	2010-03-30	IMPROVED TOPOLOGY DATABASE SYNCHRONIZATION
US	7284236	2007-10-16	10/282,948	2002-10-29	A MECHANISM TO CHANGE FIRMWARE IN A HIGH AVAILABILITY SINGLE PROCESSOR SYSTEMS
US	8375363	2013-02-12	11/769,771	2007-08-28	A MECHANISM TO CHANGE FIRMWARE IN A HIGH AVAILABILITY SINGLE PROCESSOR SYSTEM
US	7606239	2009-10-20	10/356,659	2003-01-31	METHOD AND APPARATUS FOR PROVIDING VIRTUAL PORTS WITH ATTACHED VIRTUAL DEVICES IN A STORAGE AREA NETWORK
US	8077730	2011-12-13	12/556,371	2009-09-09	METHOD AND APPARATUS FOR PROVIDING VIRTUAL PORTS WITH ATTACHED VIRTUAL DEVICES IN A STORAGE AREA NETWORK
US	7050392	2006-05-23	09/972,470	2001-10-06	IN-ORDER DELIVERY OF FRAMES DURING TOPOLOGY CHANGE
US	7506039	2009-03-17	10/285,310	2002-10-31	METHOD AND DEVICE FOR MANAGING CLUSTER MEMBERSHIP BY USE OF STORAGE AREA NETWORK FABRIC
US	7975006	2011-07-05	12/400,085	2009-03-09	METHOD AND DEVICE FOR MANAGING CLUSTER MEMBERSHIP BY USE OF STORAGE AREA NETWORK FABRIC
US	7301956	2007-11-27	09/972,471	2001-10-06	SYSTEM AND METHOD AND STORING AND RETRIEVING MULTI-SPEED DATA STREAMS WITHIN A NETWORK SWITCH
US	6765919	2004-07-20	09/426,567	1999-10-22	METHOD AND SYSTEM FOR CREATING AND IMPLEMENTING ZONES WITHIN A FIBRE CHANNEL SYSTEM
US	6980525	2006-12-27	10/059,753	2002-01-29	METHOD AND SYSTEM FOR CREATING AND IMPLEMENTING ZONES WITHIN A FIBRE CHANNEL SYSTEM
US	7283486	2007-10-16	10/780,147	2004-02-17	HARDWARE WITHIN A FIBRE CHANNEL SYSTEM
US	7120128	2006-10-10	10/853,321	2004-05-25	METHOD AND SYSTEM FOR CREATING AND IMPLEMENTING ZONES WITHIN A FIBRE CHANNEL SYSTEM
US	8279775	2012-10-02	11/748,612	2007-05-15	NODE DEVICE COOPERATING WITH SWITCH WHICH IMPLEMENTS ZONES IN A FIBRE CHANNEL SYSTEM
US	8730840	2014-05-20	13/601,466	2012-08-31	NODE DEVICE COOPERATING WITH SWITCH WHICH IMPLEMENTS ZONES IN A FIBRE CHANNEL SYSTEM
US	7447198	2008-11-04	09/872,412	2001-06-01	LINK TRUNKING AND MEASURING LINK LATENCY IN FIBRE CHANNEL FABRIC
US	9094328	2015-07-28	14/332,952	2014-07-16	TOPOLOGY FOR LARGE PORT COUNT SWITCH
US	7353305	2008-04-01	10/695,435	2003-10-28	APPARATUS AND METHOD FOR DATA VIRTUALIZATION IN A STORAGE PROCESSING DEVICE
US	7376765	2008-05-20	10/695,625	2003-10-28	APPARATUS AND METHOD FOR STORAGE PROCESSING WITH SPLIT DATA AND CONTROL PATHS
US	8200871	2012-06-12	12/779,681	2010-05-13	APPARATUS AND METHOD FOR DATA MIGRATION IN A STORAGE PROCESSING DEVICE
US	7239641	2007-07-03	09/929,627	2001-08-13	QUALITY OF SERVICE USING VIRTUAL CHANNEL TRANSLATION
US	7237045	2007-06-26	10/695,407	2003-10-28	APPARATUS AND METHOD FOR STORAGE PROCESSING THROUGH SCALEABLE PORT PROCESSORS
US	7590648	2009-09-15	11/140,577	2005-05-27	TEMPLATE-BASED DEVELOPMENT OF SERVERS
US	8060542	2011-11-15	12/498,483	2009-07-07	TEMPLATE-BASED DEVELOPMENT OF SERVERS
US	7760717	2010-07-20	11/258,510	2005-10-25	INTERFACE SWITCH FOR USE WITH FIBRE CHANNEL FABRICS IN STORAGE AREA NETWORKS
US	8897294	2014-11-25	12/785,129	2010-05-21	INTERFACE SWITCH FOR USE WITH FIBRE CHANNEL FABRICS IN STORAGE AREA NETWORKS
US	7814050	2010-10-12	10/277,431	2002-10-22	DISASTER RECOVERY
US	8078575	2011-12-13	12/877,378	2010-09-08	DISASTER RECOVERY
US	8788455	2014-07-22	13/294,501	2011-11-11	DISASTER RECOVERY
US	7733805	2010-06-08	11/782,894	2007-07-25	METHOD AND APPARATUS FOR DETERMINING BANDWIDTH-CONSUMING FRAME FLOWS IN A NETWORK
US	8582432	2013-11-12	12/764,849	2010-04-21	METHOD AND APPARATUS FOR DETERMINING BANDWIDTH-CONSUMING FRAME FLOWS IN A NETWORK
US	9054972	2015-06-09	14/052,393	2013-10-11	METHOD AND APPARATUS FOR DETERMINING BANDWIDTH-CONSUMING FRAME FLOWS IN A NETWORK
US	7619974	2009-11-17	10/698,851	2003-10-31	FRAME TRAFFIC BALANCING ACROSS TRUNK GROUPS
US	7948895	2011-05-24	12/575,978	2009-10-08	FRAME TRAFFIC BALANCING ACROSS TRUNK GROUPS
US	7707309	2010-04-27	10/767,405	2004-01-29	ISOLATION SWITCH FOR FIBRE CHANNEL FABRICS IN STORAGE AREA NETWORKS
US	7877512	2011-01-25	12/722,022	2010-03-11	ISOLATION SWITCH FOR FIBRE CHANNEL FABRICS IN STORAGE AREA NETWORKS
US	8055794	2011-11-08	12/987,475	2011-01-10	ISOLATION SWITCH FOR FIBRE CHANNEL FABRICS IN STORAGE AREA NETWORKS
US	8135856	2012-03-13	13/238,815	2011-09-21	ISOLATION SWITCH FOR FIBRE CHANNEL FABRICS IN STORAGE AREA NETWORKS
US	7047628	2006-05-23	10/356,660	2003-01-31	IMPEDANCE MATCHING OF DIFFERENTIAL PAIR SIGNAL TRACES ON PRINTED WIRING BOARDS
US	6972360	2006-12-06	10/932,988	2004-09-02	PRINTED WIRING BOARD HAVING IMPEDANCE-MATCHED DIFFERENTIAL PAIR SIGNAL TRACES
US	7596100	2009-09-29	10/986,172	2004-11-12	METHODS, DEVICES AND SYSTEMS WITH IMPROVED ZONE MERGE OPERATION BY CACHING PRIOR MERGE OPERATION RESULTS
US	8107398	2012-01-31	12/545,694	2008-08-21	METHODS, DEVICES AND SYSTEMS WITH IMPROVED ZONE MERGE OPERATION BY CACHING PRIOR MERGE OPERATION RESULTS
US	8880127	2005-04-12	09/918,694	2001-07-30	METHOD FOR ROUTING CONNECTIONS IN THE DISPLAY OF A NETWORK TOPOLOGY
US	6836275	2004-12-28	09/823,882	2001-03-30	METHOD FOR DISTINGUISHING BETWEEN SINGLE AND MULTIPLE COLLECTIONS IN A NETWORK TOPOLOGY
US	7310774	2007-12-18	09/846,750	2001-04-30	METHOD FOR DISPLAYING SWITCH PORT INFORMATION IN A NETWORK TOPOLOGY DISPLAY
US	6833850	2004-12-21	09/823,726	2001-03-30	METHOD FOR SIMPLIFYING DISPLAY OF COMPLEX NETWORK CONNECTIONS THROUGH PARTIAL OVERLAP OF CONNECTIONS IN DISPLAYED SEGMENTS
US	7197545	2007-03-27	09/846,806	2001-04-30	TECHNIQUES FOR DYNAMICALLY LOADING MODULES FOR DEVICES DISCOVERED IN A STORAGE NETWORK
US	7609654	2009-10-27	11/171,578	2005-06-29	METHOD OF EVALUATING NETWORK CONNECTIVITY BETWEEN NETWORK RESOURCES

Country	Patent No.	Grant Date	Application Number	Filed Date	App Title
US	8175001	2012-05-08	12/567,612	2009-09-25	NETWORK CONNECTIVITY
US	6608819	2003-08-19	09/728,452	2000-11-30	METHOD OF SCORING QUEUED FRAMES FOR SELECTIVE TRANSMISSION THROUGH A SWITCH
US	7382736	2008-06-03	10/613,627	2003-07-02	METHOD FOR SCORING QUEUED FRAMES FOR SELECTIVE TRANSMISSION THROUGH A SWITCH
US	7848253	2010-12-07	12/051,707	2008-03-19	METHOD FOR SCORING QUEUED FRAMES FOR SELECTIVE TRANSMISSION THROUGH A SWITCH
US	8014315	2011-09-06	12/603,414	2009-10-21	METHOD FOR SCORING QUEUED FRAMES FOR SELECTIVE TRANSMISSION THROUGH A SWITCH
US	8018936	2011-09-13	11/140,355	2005-05-26	INTER-FABRIC ROUTING
US	6950448	2005-09-27	09/739,081	2000-12-15	HIGH SPEED LINKING MODULE
Germany	1436951	2011-10-19	2747985.6	2002-06-26	TRUNKING INTER-SWITCH LINKS
			10181742.699999999		METHOD FOR AGGREGATING A PLURALITY OF LINKS TO SIMULATE A UNITARY CONNECTION
Germany	60243003.8	2012-05-23	9	2002-01-07	CONNECTION
Netherlands	1436951	2011-10-19	2747985.6	2002-06-26	TRUNKING INTER-SWITCH LINKS
					METHOD FOR AGGREGATING A PLURALITY OF LINKS TO SIMULATE A UNITARY CONNECTION
Germany	60244815.8	2013-04-10	06119506.1	2002-01-07	METHOD AND APPARATUS FOR RENDERING A CELL-BASED SWITCH USEFUL FOR FRAME BASED APPLICATION PROTOCOLS
US	7394814	2008-07-01	11/800,830	2007-05-08	DEFERRED QUEUING IN A BUFFERED SWITCH
US	7260104	2007-08-21	10/020,968	2001-12-19	METHOD AND APPARATUS FOR RENDERING A CELL-BASED SWITCH USEFUL FOR FRAME BASED APPLICATION PROTOCOLS
US	7072298	2006-07-04	10/873,550	2004-06-21	METHOD AND CIRCUIT FOR REPLICATING DATA IN A FIBRE CHANNEL NETWORK, OR THE LIKE
US	6721862	2004-04-13	09/938,313	2001-08-23	AUTOMATIC TESTING OF REDUNDANT SWITCHING ELEMENT AND AUTOMATIC SWITCHOVER
US	6556953	2003-04-29	09/829,448	2001-04-09	AUTOMATIC TESTING OF REDUNDANT SWITCHING ELEMENT AND AUTOMATIC SWITCHOVER
US	6643602	2003-11-04	10/284,120	2002-10-29	TRUNKING INTER-SWITCH LINKS
US	6532212	2003-03-11	09/964,184	2001-09-25	STRIPING DATA FRAMES ACROSS PARALLEL FIBRE CHANNEL LINKS
US	6941252	2005-09-06	09/809,996	2001-03-14	TRUNKING INTER-SWITCH LINKS
US	6819554	2004-11-16	10/383,032	2003-03-06	COMPUTER NETWORK MONITORING WITH TEST DATA ANALYSIS
US	6931357	2005-08-16	10/623,055	2003-06-18	BATCHING AND COMPRESSION FOR IP TRANSMISSION
US	8811429	2014-08-19	10/546,411	2007-06-14	FIBRE CHANNEL FRAME BATCHING FOR IP TRANSMISSION
US	7308001	2007-12-11	10/295,359	2002-11-15	FRAME BATCHING AND COMPRESSION FOR IP TRANSMISSION
US	7027450	2006-04-11	10/368,682	2003-02-19	FIBRE CHANNEL ARCHITECTURE
US	6981078	2005-12-27	09/922,591	2001-08-03	METHOD AND APPARATUS FOR IMPARTING FAULT TOLERANCE IN A SWITCH OR THE LIKE
US	6895528	2005-05-17	09/920,751	2001-08-03	METHOD AND APPARATUS FOR RENDERING A CELL-BASED SWITCH USEFUL FOR FRAME BASED APPLICATION PROTOCOLS
US	7218636	2007-05-15	09/995,605	2001-11-29	METHOD AND APPARATUS FOR RENDERING A CELL-BASED SWITCH USEFUL FOR FRAME BASED APPLICATION PROTOCOLS
Germany	60211692.9	2006-05-24	2749583.7	2002-06-13	METHOD AND APPARATUS FOR PROVIDING VIRTUAL MACHINE INFORMATION TO A NETWORK INTERFACE
US	8719069	2014-05-06	12/838,624	2010-07-19	METHOD AND APPARATUS FOR DETERMINING THE IDENTITY OF A VIRTUAL MACHINE
US	9733962	2017-08-15	12/838,627	2010-07-19	SIDE-EXHAUST COOLING SYSTEM WITH EXTENSIBLE DUCT FOR RACK MOUNTED EQUIPMENT
US	8730671	2014-05-20	13/399,554	2012-02-17	PLUGGABLE TRANSCEIVER MODULE WITH ENHANCED CIRCUITRY
US	8161332	2012-04-17	12/609,929	2009-10-30	PLUGGABLE TRANSCEIVER MODULE WITH ENHANCED CIRCUITRY
US	9397753	2016-07-19	13/421,666	2012-03-16	APPARATUS AND METHOD FOR PERFORMING CYCLIC REDUNDANCY CHECK (CRC) ON PARTIAL PROTOCOL DATA UNITS (PDUS)
US	7577866	2009-08-18	11/258,377	2005-10-26	APPARATUS AND METHOD FOR PERFORMING CYCLIC REDUNDANCY CHECK (CRC) ON PARTIAL PROTOCOL DATA UNITS (PDUS)
US	8176385	2012-05-08	12/470,450	2009-05-21	FIBRE CHANNEL NETWORK EMPLOYING REGISTERED STATE CHANGE NOTIFICATIONS WITH ENHANCED PAYLOAD
US	8320241	2012-11-27	10/206,375	2002-07-30	STORAGE OF KEYID IN CUSTOMER DATA AREA
US	8538027	2013-09-17	12/580,918	2009-10-16	STORAGE OF KEYID IN CUSTOMER DATA AREA
US	9324123	2016-04-26	13/969,214	2013-06-16	TILTED PRINTED CIRCUIT BOARD INSTALLATION
US	8477508	2013-07-02	12/620,361	2009-11-17	TILTED PRINTED CIRCUIT BOARD INSTALLATION
US	9282671	2016-03-08	13/911,464	2013-06-06	VIRTUAL CLUSTER SWITCHING
US	8867552	2014-10-21	13/087,239	2011-04-14	VIRTUAL CLUSTER SWITCHING
US	9628336	2017-04-18	14/178,042	2014-02-11	FABRIC FORMATION FOR VIRTUAL CLUSTER SWITCHING
US	9001824	2015-04-07	13/092,724	2011-04-22	FABRIC FORMATION FOR VIRTUAL CLUSTER SWITCHING
US	9485148	2016-11-01	14/656,544	2015-03-12	DISTRIBUTED CONFIGURATION MANAGEMENT FOR VIRTUAL CLUSTER SWITCHING
US	9716672	2017-07-25	13/092,580	2011-04-22	DISTRIBUTED CONFIGURATION MANAGEMENT FOR VIRTUAL CLUSTER SWITCHING
US	9,942,173	2018-04-10	15/651,999	2017-07-17	PORT PROFILE MANAGEMENT FOR VIRTUAL CLUSTER SWITCHING
US	9481840	2016-10-04	13/042,259	2011-03-07	ADVANCED LINK TRACKING FOR VIRTUAL CLUSTER SWITCHING
US	9769016	2017-09-19	13/092,480	2011-04-22	NETWORK CONGESTION MANAGEMENT SYSTEMS AND METHODS
US	8051197	2011-11-01	10/393,957	2003-03-20	NETWORK CONGESTION MANAGEMENT SYSTEMS AND METHODS
US	9565110	2017-02-07	12/783,080	2010-04-19	NETWORK CONGESTION MANAGEMENT SYSTEMS AND METHODS
US	9866464	2018-01-09	14/827,042	2015-08-14	METHOD AND APPARATUS FOR TRANSFERRING DATA BETWEEN IP NETWORK DEVICES AND SCSI AND FIBRE CHANNEL DEVICES OVER AN IP NETWORK
US	6400730	2002-05-04	09/500,119	2000-02-08	METHOD AND APPARATUS FOR TRANSFERRING DATA BETWEEN IP NETWORK DEVICES AND SCSI AND FIBRE CHANNEL DEVICES OVER AN IP NETWORK
US	7197047	2007-03-27	10/136,029	2002-04-30	METHOD AND SYSTEM FOR GENERATING A NETWORK MONITORING DISPLAY WITH ANIMATED UTILIZATION INFORMATION
US	7219300	2007-05-15	10/671,115	2003-09-24	PROTOCOLS FOR CONNECTING INTELLIGENT SERVICE MODULES IN A STORAGE AREA NETWORK
US	7953868	2011-05-31	11/386,379	2006-03-22	

Country	Patent No.	Grant Date	Application Number	Filed Date	App Title
US	8595352	2013-11-26	13/097,515	2011-04-29	PROTOCOLS FOR CONNECTING INTELLIGENT SERVICE MODULES IN A STORAGE AREA NETWORK
US	9143841	2015-09-22	11/239,954	2005-09-29	FEDERATED MANAGEMENT OF INTELLIGENT SERVICE MODULES
US	9661085	2017-05-23	14/824,407	2015-08-12	FEDERATED MANAGEMENT OF INTELLIGENT SERVICE MODULES
US	7916647	2011-03-29	12/119,440	2008-05-12	AUTO VIRTUAL CHANNEL ADJUSTMENT
US	8737230	2014-05-27	12/913,147	2010-10-27	AUTO VIRTUAL CHANNEL ADJUSTMENT
US	9146768	2015-09-29	14/221,034	2014-03-20	AUTO VIRTUAL CHANNEL ADJUSTMENT
US	8923328	2014-12-30	12/119,436	2008-05-12	APPLICATION ORIENTED QOS
US	9524182	2016-12-20	14/577,588	2014-12-19	APPLICATION ORIENTED QOS
US	9342339	2016-05-17	12/119,448	2008-05-12	ADAPTIVE NETWORKING ALGORITHMS
US	8949392	2015-02-03	12/119,457	2008-05-12	WORK LOAD MANAGEMENT WITH NETWORK DYNAMICS
US	8699513	2014-04-15	12/119,430	2008-05-12	PROTOCOL USED TO TELL THE HBA OR OTHER EDGE DEVICE OR A VIRTUAL SERVER RUNNING ON A HOST VARIOUS QOS ISSUES
US	9158570	2015-10-13	14/221,134	2014-03-20	PROTOCOL USED TO TELL THE HBA OR OTHER EDGE DEVICE OR A VIRTUAL SERVER RUNNING ON A HOST VARIOUS QOS ISSUES
US	9319462	2016-04-19	12/258,643	2008-10-27	SYSTEM AND METHOD FOR END-TO-END BEACONING
US	7688841	2010-02-23	10/798,273	2004-03-10	VIRTUAL WRITE BUFFER FOR ACCELERATED MEMORY AND STORAGE ACCESS
US	7184445	2007-02-27	10/775,069	2004-02-11	AN ARCHITECTURE AND API FOR TRANSPORT AND UPPER LAYER PROTOCOL PROCESSING ACCELERATION
US	8244946	2012-08-14	12/580,913	2009-10-16	INTERRUPT MODERATION
US	8397007	2013-03-12	13/549,563	2012-07-16	INTERRUPT MODERATION
US	8677042	2014-03-18	13/762,077	2013-02-07	INTERRUPT MODERATION
US	9401967	2016-07-26	12/797,032	2010-06-09	INLINE WIRE SPEED DEDUPLICATION SYSTEM
US	9357036	2016-05-31	13/677,922	2012-11-15	LOSSLESS CONNECTION FAILOVER FOR MIRRORED DEVICES
US	9118594	2015-08-25	13/677,929	2012-11-15	LOSSLESS CONNECTION FAILOVER FOR SINGLE DEVICES
US	9749175	2017-08-29	13/677,909	2012-11-15	TOP CONNECTION RELOCATION
US	9455935	2016-09-27	15/000,964	2016-01-19	REMOTE PORT MIRRORING
US	8408125	2013-03-26	12/913,572	2010-10-27	SYNCHRONIZATION OF MULTICAST INFORMATION USING INCREMENTAL UPDATES
US	9276756	2016-03-01	13/770,751	2013-02-19	SYNCHRONIZATION OF MULTICAST INFORMATION USING INCREMENTAL UPDATES
US	8576703	2013-11-05	12/913,598	2010-10-27	SYNCHRONIZATION OF MULTICAST INFORMATION USING BICASTING
US	8503289	2013-08-06	12/913,650	2010-10-27	SYNCHRONIZING MULTICAST INFORMATION FOR LINECARDS
US	9094221	2016-07-28	13/925,723	2013-06-24	SYNCHRONIZING MULTICAST INFORMATION FOR LINECARDS
US	8989186	2015-03-24	13/092,701	2011-04-22	VIRTUAL PORT GROUPING FOR VIRTUAL CLUSTER SWITCHING
US	9461911	2016-10-04	14/643,760	2015-03-10	VIRTUAL PORT GROUPING FOR VIRTUAL CLUSTER SWITCHING
US	9270486	2016-02-23	13/092,752	2011-04-22	VIRTUAL CLUSTER SWITCHING
US	9848040	2017-12-19	15/005,987	2016-01-25	NAME SERVICES FOR VIRTUAL CLUSTER SWITCHING
US	9231890	2016-01-05	13/092,877	2011-04-22	VIRTUAL CLUSTER SWITCHING
US	9246703	2016-01-26	13/044,326	2011-03-09	TRAFFIC MANAGEMENT FOR VIRTUAL CLUSTER SWITCHING
US	9628293	2017-04-18	13/030,806	2011-02-18	REMOTE PORT MIRRORING
US	9608833	2017-03-28	13/030,688	2011-02-18	NETWORK LAYER MULTICASTING IN TRILL NETWORKS
US	9606906	2017-10-31	13/044,301	2011-02-18	SUPPORTING MULTIPLE MULTICAST TREES IN TRILL NETWORKS
US	9742693	2017-08-22	13/776,217	2011-03-09	FLOODING PACKETS ON A PER-VIRTUAL-NETWORK BASIS
US	9154416	2015-10-06	13/801,858	2013-02-25	DYNAMIC SERVICE INSERTION IN A FABRIC SWITCH
US	9088496	2015-07-21	13/786,604	2013-03-13	OVERLAY TUNNEL IN A FABRIC SWITCH
US	9577905	2017-02-21	14/689,728	2013-03-06	PACKET TRACING THROUGH CONTROL AND DATA PLANE OPERATIONS
Germany	2829031	2017-08-09	13/15074.4	2015-04-17	PACKET TRACING THROUGH CONTROL AND DATA PLANE OPERATIONS
United Kingdom	2829031	2017-08-09	13/15074.4	2013-03-19	OVERLAY TUNNEL IN A FABRIC SWITCH
US	9,887,916	2018-02-06	14/872,966	2015-10-01	OVERLAY TUNNEL IN A FABRIC SWITCH
US	9342348	2016-05-17	13/747,348	2013-01-22	TRANSPARENT HIGH AVAILABILITY FOR STATEFUL SERVICES
US	10,025,834	2018-07-17	15/141,617	2016-04-28	TRANSPARENT HIGH AVAILABILITY FOR STATEFUL SERVICES
US	8995272	2015-03-31	13/742,207	2013-01-15	LINK AGGREGATION IN SOFTWARE-DEFINED NETWORKS
US	9729387	2017-08-08	14/625,536	2015-02-18	LINK AGGREGATION IN SOFTWARE-DEFINED NETWORKS
US	9213590	2015-12-15	13/830,286	2013-03-14	NETWORK MONITORING AND DIAGNOSTICS
China	ZL201280059783.X	2016-12-28	201280059783.X	2012-12-05	LOSSLESS CONNECTION FAILOVER FOR SINGLE DEVICES
US	10,038,627	2018-07-31	15/481,319	2017-04-06	SELECTIVE RULE MANAGEMENT BASED ON TRAFFIC VISIBILITY IN A TUNNEL
US	9,912,614	2018-03-06	15/005,946	2016-01-25	BROCADE IP FABRICS ARCHITECTURE & SOLUTION
US	9749401	2017-08-29	14/848,035	2015-09-06	INTELLIGENT LOAD BALANCER SELECTION IN A MULTI-LOAD BALANCER ENVIRONMENT
US	9,992,273	2018-06-05	15/660,744	2017-07-26	INTELLIGENT LOAD BALANCER SELECTION IN A MULTI-LOAD BALANCER ENVIRONMENT
US	10,015,113	2018-07-03	15/056,791	2016-02-29	TECHNIQUES TO RESTORE MULTICAST DATA PLANE FROM PERSISTENT STORAGE
US	9582310	2017-02-28	14/608,007	2015-01-28	METHOD AND APPARATUS FOR DETERMINING THE IDENTITY OF A VIRTUAL MACHINE
US	9807007	2017-10-31	14/822,380	2015-08-10	PROGRESSIVE MAC ADDRESS LEARNING
US	9742648	2017-08-22	14/923,738	2015-10-27	EFFICIENT TOPOLOGY FAILURE DETECTION IN SDN NETWORKS
US	9653874	2017-12-26	14/923,769	2015-10-27	FLOW-SPECIFIC FAILURE DETECTION IN SDN NETWORKS
US	9,942,097	2018-04-10	14/792,166	2015-07-06	POWER MANAGEMENT IN A NETWORK OF INTERCONNECTED SWITCHES
US	9544219	2017-01-10	14/815,487	2015-07-31	SPANNING TREE PROTOCOL IN FABRIC SWITCH SUPPORTING GLOBAL VLAN

Country	Patent No.	Grant Date	Application Number	Filed Date	App Title
US	9629407	2017-04-18	14/588,072	2014-12-31	MULTIPLE SOFTWARE VERSIONS IN A SWITCH GROUP
US	9807005	2017-10-31	14/660,740	2015-03-17	MULTIPLE VCS FABRIC MANAGEMENT WITH NEAR REAL TIME CONFIGURATION UPDATES
US	9626255	2017-04-18	14/588,106	2014-12-31	ONLINE RESTORATION OF A SWITCH SNAPSHOT
US	10,038,592	2018-07-31	14/660,803	2015-03-17	ZERO TOUCH PROVISIONING OF R-BRIDGE ID & VCS ID ASSIGNMENT TO BARE METAL SWITCHES IN VCS
US	8498300	2013-07-30	13/076,310	2011-03-30	INGRESS AND EGRESS SWITCH WHICH DETERMINES SERVICES RELATED TO AN INCOMING PACKET
US	8498301	2013-07-30	13/076,321	2011-03-30	SWITCH WITH PACKET SERVICES PROCESSING
US	8594079	2013-11-26	13/076,327	2011-03-30	NETWORK ARCHITECTURE WITH DISTRIBUTION OF PACKET SERVICES TO VARIOUS SWITCHES
US	9088524	2015-07-21	14/063,137	2013-10-25	NETWORK ARCHITECTURE WITH DISTRIBUTION OF PACKET SERVICES TO VARIOUS SWITCHES
US	9729464	2017-08-08	12/909,131	2010-10-21	METHOD AND APPARATUS FOR PROVISIONING OF RESOURCES TO SUPPORT APPLICATIONS AND THEIR VARYING DEMANDS
US	8549148	2013-10-01	12/916,390	2010-10-29	DOMAIN NAME SYSTEM SECURITY EXTENSIONS (DNSSEC) FOR GLOBAL SERVER LOAD BALANCING
US	9338182	2016-05-10	13/956,241	2013-07-31	DOMAIN NAME SYSTEM SECURITY EXTENSIONS (DNSSEC) FOR GLOBAL SERVER LOAD BALANCING
US	8446914	2013-05-21	13/092,864	2011-04-22	METHOD AND SYSTEM FOR LINK AGGREGATION ACROSS MULTIPLE SWITCHES
US	9143445	2015-09-22	13/889,637	2013-05-08	METHOD AND SYSTEM FOR LINK AGGREGATION ACROSS MULTIPLE SWITCHES
US	8634308	2014-01-21	12/950,968	2010-11-19	PATH DETECTION IN TRILL NETWORKS
US	9104619	2015-08-11	12/842,945	2010-07-23	PERSISTING DATA ACROSS WARM BOOTS
US	7206283	2007-04-17	10/738,680	2003-12-17	HIGH PERFORMANCE NETWORK SWITCH
US	8369335	2013-02-05	12/730,749	2010-03-24	METHOD AND SYSTEM FOR EXTENDING ROUTING DOMAIN TO NON-ROUTING END STATIONS
US	8995444	2015-03-31	13/758,902	2013-02-04	METHOD AND SYSTEM FOR EXTENDING ROUTING DOMAIN TO NON-ROUTING END STATIONS
US	8467296	2013-06-18	12/643,902	2009-12-21	HIERARCHICAL RATE COLOR MARKER
US	8730812	2014-05-20	13/005,485	2011-01-12	HIERARCHICAL RATE COLOR MARKER
US	9231829	2016-01-05	13/916,478	2013-06-12	HIERARCHICAL RATE COLOR MARKER
US	9350674	2016-05-24	14/278,727	2014-05-15	HIERARCHICAL RATE COLOR MARKER
US	8671219	2014-03-11	11/745,008	2007-05-07	METHOD AND APPARATUS FOR EFFICIENTLY PROCESSING DATA PACKETS IN A COMPUTER NETWORK
US	7310309	2007-12-18	10/198,703	2002-07-17	DYNAMIC RATE LIMITING ADJUSTMENT
US	7724662	2010-05-25	11/998,854	2007-11-30	DYNAMIC RATE LIMITING ADJUSTMENT
US	6118864	2000-09-12	09/001,859	1997-12-31	SYSTEM AND METHOD FOR PROVIDING COMMUNICATION ON A WIDE AREA NETWORK
US	7454500	2008-11-18	09/670,487	2000-09-28	GLOBAL SERVER LOAD BALANCING
US	9130854	2015-09-08	10/305,823	2002-11-27	DISTRIBUTED HEALTH CHECK FOR GLOBAL SERVER LOAD BALANCING
US	7581009	2009-08-25	11/741,480	2007-04-27	GLOBAL SERVER LOAD BALANCING
US	8504721	2013-08-06	12/496,560	2009-07-01	GLOBAL SERVER LOAD BALANCING
US	9479574	2016-10-25	13/925,670	2013-06-24	GLOBAL SERVER LOAD BALANCING
US	9225775	2015-12-29	12/272,818	2008-11-17	GLOBAL SERVER LOAD BALANCING
US	7203194	2007-04-10	10/810,301	2004-03-25	METHOD AND SYSTEM FOR ENCODING WIDE STRIPED CELLS
US	7389359	2008-06-17	09/982,106	2001-10-19	METHOD AND SYSTEM FOR INTELLIGENTLY FORWARDING MULTICAST PACKETS
US	7877508	2011-01-25	12/152,617	2008-05-14	METHOD AND SYSTEM FOR INTELLIGENTLY FORWARDING MULTICAST PACKETS
US	9112715	2015-08-18	12/765,765	2010-04-23	METHOD AND SYSTEM FOR INTELLIGENTLY FORWARDING MULTICAST PACKETS
US	8443103	2013-05-14	12/908,758	2010-10-20	METHOD AND SYSTEM FOR INTELLIGENTLY FORWARDING MULTICAST PACKETS
US	7209435	2007-04-24	10/124,449	2002-04-16	SYSTEM AND METHOD FOR PROVIDING NETWORK ROUTE REDUNDANCY ACROSS LAYER 2 DEVICES
US	7558195	2009-07-07	11/695,458	2007-04-02	SYSTEM AND METHOD FOR PROVIDING NETWORK ROUTE REDUNDANCY ACROSS LAYER 2 DEVICES
US	8014301	2011-09-06	12/477,069	2009-08-02	SYSTEM AND METHOD FOR PROVIDING NETWORK ROUTE REDUNDANCY ACROSS LAYER 2 DEVICES
US	8593987	2013-11-26	13/185,885	2011-07-19	SYSTEM AND METHOD FOR PROVIDING NETWORK ROUTE REDUNDANCY ACROSS LAYER 2 DEVICES
US	9450893	2016-09-20	14/060,841	2013-10-23	SYSTEM AND METHOD FOR PROVIDING NETWORK ROUTE REDUNDANCY ACROSS LAYER 2 DEVICES
US	7468975	2008-12-23	10/140,752	2002-05-06	FLEXIBLE METHOD FOR DATA PACKETS IN A NETWORK ROUTING SYSTEM FOR ENHANCED EFFICIENCY AND MONITORING CAPABILITY
US	8194666	2012-06-05	11/668,322	2007-01-29	FLEXIBLE METHOD FOR PROCESSING DATA PACKETS IN A NETWORK ROUTING SYSTEM FOR ENHANCED EFFICIENCY AND MONITORING CAPABILITY
US	7830884	2010-11-09	11/854,486	2007-09-12	FLEXIBLE METHOD FOR PROCESSING DATA PACKETS IN A NETWORK ROUTING SYSTEM FOR ENHANCED EFFICIENCY AND MONITORING CAPABILITY
US	7266117	2007-09-04	10/139,831	2002-05-06	SYSTEM ARCHITECTURE FOR VERY FAST ETHERNET BLADE
US	7738450	2010-06-15	11/828,246	2007-07-25	SYSTEM ARCHITECTURE FOR VERY FAST ETHERNET BLADE
US	7187687	2007-03-06	10/140,088	2002-05-06	PIPELINE METHOD AND SYSTEM FOR SWITCHING PACKETS
US	7813367	2010-10-12	11/621,038	2007-01-08	PIPELINE METHOD AND SYSTEM FOR SWITCHING PACKETS
US	8170044	2012-05-01	12/795,492	2010-06-07	PIPELINE METHOD AND SYSTEM FOR SWITCHING PACKETS
US	8989202	2015-03-24	13/398,725	2012-02-16	PIPELINE METHOD AND SYSTEM FOR SWITCHING PACKETS
US	8819252	2014-08-26	10/139,095	2002-05-03	TRANSACTION RATE LIMITING
US	7707295	2010-04-27	10/139,073	2002-05-03	CONNECTION RATE LIMITING
US	8554929	2013-10-08	10/139,076	2002-05-03	CONNECTION RATE LIMITING FOR SERVER LOAD BALANCING AND TRANSPARENT CACHE SWITCHING

Country	Patent No.	Grant Date	Application Number	Filed Date	App Title
US	8572228	2013-10-29	12/785,423	2010-05-10	CONNECTION RATE LIMITING FOR SERVER LOAD BALANCING AND
US	9332088	2016-05-03	14/033,398	2013-09-20	TRANSPARENT CACHE SWITCHING
US	8462668	2013-06-11	10/261,946	2002-10-01	CONNECTION RATE LIMITING FOR SERVER LOAD BALANCING AND
US	9391888	2016-07-12	13/893,111	2013-05-13	TRANSPARENT CACHE SWITCHING
US	7649885	2010-01-19	10/139,912	2002-05-06	SYSTEM AND METHOD FOR IMPLEMENTATION OF LAYER 2 REDUNDANCY
US	9392722	2016-07-12	14/331,774	2014-07-15	PROTOCOLS ACROSS MULTIPLE NETWORKS
US	9591781	2017-03-07	14/448,796	2014-07-31	SYSTEM AND METHOD FOR IMPLEMENTATION OF LAYER 2 REDUNDANCY
US	9253912	2016-02-02	14/331,864	2014-07-15	PROTOCOLS ACROSS MULTIPLE NETWORKS
US	9,912,570	2018-03-06	14/318,161	2014-06-26	NETWORK ROUTING SYSTEM WITH ENHANCED EFFICIENCY AND MONITORING
US	9,887,927	2018-02-06	14/511,155	2014-10-09	CAPABILITY
US	9866436	2018-01-09	14/557,216	2014-12-01	CABLE BACKPLANE ASSEMBLY AND METHOD
US	9480149	2016-10-25	14/230,843	2014-03-31	FLOATING DAUGHTER CARD SYSTEM AND METHOD
US	10,063,473	2018-08-28	14/680,915	2015-04-07	EJECTOR AND CABLE MANAGEMENT SYSTEM AND METHOD
US	9749236	2017-08-29	14/446,170	2014-07-30	VIP CLONING
US	9602197	2017-03-21	14/554,453	2014-11-26	END-TO-END CREDIT RECOVERY
US	9461941	2016-10-04	14/308,143	2014-06-18	SMART MIGRATION OF MONITORING CONSTRUCTS AND DATA
US	9467304	2016-10-11	14/501,803	2014-09-30	PRINTED CIRCUIT BOARD WITH AIR FLOW CHANNELS
US	9124506	2015-09-01	14/069,276	2013-10-31	VCS - QVS EDGE BRIDGE
US	9705783	2017-07-11	14/805,901	2015-07-22	ROUTER AWARE EDGE FABRIC
US	9137156	2015-09-15	13/950,547	2013-07-25	NON-INTRUSIVE DIAGNOSTIC PORT FOR INTER-SWITCH AND NODE LINK
US	9,912,612	2018-03-06	14/468,173	2014-09-16	TESTING
US	9401818	2016-07-26	14/215,996	2014-03-17	128 GIGABIT FIBRE CHANNEL PHYSICAL ARCHITECTURE
US	9871676	2018-01-16	15/215,377	2016-07-20	128 GIGABIT FIBRE CHANNEL SPEED NEGOTIATION
Germany	3008860	2017-08-30	EP14738940.7	2016-01-06	TECHNIQUES FOR END-TO-END NETWORK BANDWIDTH OPTIMIZATION USING
US	9699001	2017-07-04	14/299,206	2014-06-09	SOFTWARE DEFINED NETWORKING
Germany	2853066 /				TECHNIQUES FOR END-TO-END NETWORK BANDWIDTH OPTIMIZATION USING
Germany	602013017669.8	2017-02-22	EP13728044.2	2014-10-21	SOFTWARE DEFINED NETWORKING
United Kingdom	2853066	2017-02-22	EP13728044.2	2014-10-21	SCALABLE AND EFFICIENT FLOW-AWARE PACKET DISTRIBUTION
China	201380022883.X	2018-05-22	201380022883X	2014-10-31	VXCS - ETHERNET FABRIC FORMATION BASED ON VXLAN
US	9769061	2017-09-19	13/851,026	2013-03-26	SCALABLE GATEWAYS FOR A FABRIC SWITCH
US	9374301	2016-06-21	13/890,150	2013-05-08	SCALABLE GATEWAYS FOR A FABRIC SWITCH
US	9,998,365	2018-06-12	15/047,539	2016-02-18	SCALABLE AND SEGREGATED NETWORK VIRTUALIZATION
US	9027129	2015-05-05	13/871,956	2013-04-26	SCALABLE AND SEGREGATED NETWORK VIRTUALIZATION
US	9438702	2016-09-06	14/679,532	2015-04-06	SCALABLE AND SEGREGATED NETWORK VIRTUALIZATION
US	9461768	2016-01-04	13/899,440	2013-05-21	TERABIT TOP-OF-SWITCH SWITCH
US	8909770	2014-12-09	13/538,747	2012-06-29	PERFORMANCE ESTIMATOR FOR NETWORK DEVICES
US	9729449	2017-08-08	13/793,441	2013-03-11	METHOD AND APPARATUS FOR ENHANCING ROUTING WITHIN A SHORTEST
US	9049139	2015-08-02	13/791,367	2013-03-08	PATH BASED ROUTED NETWORK CONTAINING LOCAL AND LONG DISTANCE
US	9148346	2015-09-29	13/954,861	2013-07-30	LINKS
US	9602430	2017-03-21	13/971,397	2013-08-20	PERVASIVE NETWORK DIAGNOSTICS USING HBAS
US	9401872	2016-07-26	14/064,029	2013-10-25	MULTIPLE RING IDENTIFICATION AND CONFIGURATION PROTOCOL
US	10,075,394	2018-09-11	15/216,374	2016-07-21	GLOBAL VLANS FOR FABRIC SWITCHES
US	9444641	2016-09-13	14/018,713	2013-09-05	VIRTUAL LINK AGGREGATIONS ACROSS MULTIPLE FABRIC SWITCHES
US	9559863	2017-01-31	14/018,741	2013-09-05	VIRTUAL LINK AGGREGATIONS ACROSS MULTIPLE FABRIC SWITCHES
US	8798456	2014-08-05	13/047,513	2011-03-14	MAC FLUSH OPTIMIZATIONS FOR ETHERNET RINGS
US	9419895	2016-08-16	13/871,777	2013-04-26	MAC FLUSH OPTIMIZATIONS FOR ETHERNET RINGS
US	9203690	2015-12-01	13/827,641	2013-03-14	DIAGNOSTIC PORT FOR INTER-SWITCH LINK TESTING IN ELECTRICAL, OPTICAL
US	9306794	2016-04-05	13/797,189	2013-03-12	AND REMOTE LOOPBACK MODES
US	9565113	2017-02-07	14/156,374	2014-01-15	TECHNIQUES FOR CUSTOMIZING FORWARDING DECISIONS VIA A HARDWARE
US	9350680	2016-05-24	14/151,693	2014-01-09	LOOKUP RESULT
US	9660939	2017-05-23	15/151,193	2016-05-10	ROLL BASED MULTICAST MESSAGING INFRASTRUCTURE
US	9548928	2017-01-17	14/152,764	2014-01-10	ALGORITHM FOR LONG-LIVED LARGE FLOW IDENTIFICATION
US	9807017	2017-10-31	15/399,556	2017-01-05	ADAPTIVE LINK AGGREGATION AND VIRTUAL LINK AGGREGATION
US	9413691	2016-08-09	14/154,106	2014-01-13	PROTECTION SWITCHING IN DISTRIBUTED LINK AGGREGATION
US	9585115	2017-02-07	14/460,948	2014-08-15	PROTECTION SWITCHING IN DISTRIBUTED LINK AGGREGATION
US	9401760	2016-07-26	14/315,800	2014-08-26	MULTICAST TRAFFIC LOAD BALANCING OVER VIRTUAL LINK AGGREGATION
US	7035101	2006-04-25	10/810,059	2004-03-26	MULTICAST TRAFFIC LOAD BALANCING OVER VIRTUAL LINK AGGREGATION
US	7558205	2009-07-07	10/632,591	2003-08-01	MAC ADDRESS SYNCHRONIZATION IN A FABRIC SWITCH
US	7944816	2011-05-17	12/468,363	2009-05-14	VIRTUAL MACHINE TRAFFIC ENGINEERING
US	8446819	2013-05-27	13/090,118	2011-04-19	DIAGNOSTIC PORT FOR INTER-SWITCH LINK TESTING IN ELECTRICAL, OPTICAL
US	7639608	2009-12-29	10/693,037	2003-10-23	AND REMOTE LOOPBACK MODES

Country	Patent No.	Grant Date	Application Number	Filed Date	App Title
US	7761589	2010-07-20	10/702,387	2003-11-04	FLOW CONTROL FOR MULTI-HOP NETWORKS
US	7990857	2011-08-02	12/615,142	2009-11-09	PRIORITY AWARE MAC FLOW CONTROL
US	8743891	2014-06-03	13/161,439	2011-06-15	PRIORITY AWARE MAC FLOW CONTROL
US	8514713	2013-08-20	12/791,828	2010-06-01	FLOW CONTROL FOR MULTI-HOP NETWORKS
US	8811171	2014-08-19	13/944,876	2013-07-17	FLOW CONTROL FOR MULTI-HOP NETWORKS
US	7564858	2009-07-21	10/632,635	2003-08-01	SYSTEM AND METHOD FOR ENABLING A REMOTE INSTANCE OF A LOOP AVOIDANCE PROTOCOL
US	7622049	2010-10-26	11/246,945	2005-10-06	SYSTEM AND METHOD FOR ENABLING A REMOTE INSTANCE OF A LOOP AVOIDANCE PROTOCOL
US	8345699	2013-01-01	12/878,973	2010-09-09	SYSTEM AND METHOD FOR ENABLING A REMOTE INSTANCE OF A LOOP AVOIDANCE PROTOCOL
US	7774833	2010-09-10	10/668,456	2003-09-23	SYSTEM AND METHOD FOR PROTECTING CPU AGAINST REMOTE ACCESS
US	8893256	2014-11-18	12/827,235	2010-08-30	ATTACKS
US	9584360	2017-02-26	10/674,827	2003-09-29	GLOBAL SERVER LOAD BALANCING SUPPORT FOR PRIVATE VIP ADDRESSES
US	8514854	2013-08-20	12/719,822	2010-03-08	VIRTUAL ROUTER REDUNDANCY FOR SERVER VIRTUALIZATION
US	9094334	2015-07-28	13/827,863	2013-03-14	VIRTUAL ROUTER REDUNDANCY FOR SERVER VIRTUALIZATION
US	8687653	2014-04-01	12/610,173	2009-10-30	TUNNEL PATH MTU DISCOVERY
US	7885188	2011-02-08	12/177,021	2008-07-21	SMOOTHING ALGORITHM FOR ROUND TRIP TIME (RTT) MEASUREMENTS
US	8755279	2014-06-17	13/008,321	2011-01-18	SMOOTHING ALGORITHM FOR ROUND TRIP TIME (RTT) MEASUREMENTS
US	7817659	2010-10-19	10/810,208	2004-03-26	METHOD AND APPARATUS FOR AGGREGATING INPUT DATA STREAMS
US	8493988	2013-07-23	12/880,518	2010-09-13	METHOD AND APPARATUS FOR AGGREGATING INPUT DATA STREAMS
US	9338100	2016-05-10	13/925,564	2013-06-24	METHOD AND APPARATUS FOR AGGREGATING INPUT DATA STREAMS
US	7949757	2011-05-24	12/938,232	2010-11-02	HOST-LEVEL POLICIES FOR GLOBAL SERVER BALANCING
US	8862740	2014-10-14	13/101,396	2011-05-05	HOST-LEVEL POLICIES FOR GLOBAL SERVER BALANCING
US	7496851	2009-02-24	10/840,496	2004-05-06	CONFIGURABLE GEOGRAPHIC PREFIXES FOR GLOBAL SERVER LOAD BALANCING
US	7756965	2010-07-13	12/353,701	2008-01-14	USAN
US	9083715	2015-07-14	12/817,893	2010-06-17	METHOD AND APPARATUS FOR LOAD BALANCING BASED ON PACKET HEADER CONTENT
US	7587487	2009-09-08	10/731,979	2003-12-10	METHOD AND APPARATUS FOR LOAD BALANCING BASED ON XML CONTENT IN A PACKET
US	9141688	2015-09-22	11/899,843	2007-09-07	SEARCH IN NETWORK MANAGEMENT UI CONTROLS
US	8341739	2012-12-25	11/942,969	2007-11-20	MANAGING NETWORK SECURITY
US	8650295	2014-02-11	13/676,804	2012-11-14	MANAGING NETWORK SECURITY
US	8667268	2014-03-04	13/461,700	2012-05-01	SCALABLE DISTRIBUTED WEB-BASED AUTHENTICATION
US	8037399	2011-10-11	11/779,778	2007-07-18	TECHNIQUES FOR SEGMENTED CRC DESIGN IN HIGH SPEED NETWORKS
US	8448162	2013-05-21	11/646,846	2006-12-27	HITLESS SOFTWARE UPGRADES
US	9378005	2016-06-28	13/882,180	2013-04-12	HITLESS SOFTWARE UPGRADES
US	7594093	2009-09-22	11/580,339	2006-10-12	VIRTUAL MEMORY MAPPING FOR EFFICIENT MEMORY USAGE
US	8015387	2011-09-06	12/507,953	2009-07-23	VIRTUAL MEMORY MAPPING FOR EFFICIENT MEMORY USAGE
US	8711676	2014-04-29	11/833,167	2007-08-02	TECHNIQUES FOR DETERMINING OPTIMIZED LOCAL REPAIR PATHS
US	8040792	2011-10-18	11/833,168	2007-08-02	TECHNIQUES FOR DETERMINING LOCAL REPAIR CONNECTIONS
US	8830822	2014-09-09	13/274,216	2011-10-14	TECHNIQUES FOR DETERMINING LOCAL REPAIR CONNECTIONS
US	8358578	2013-01-22	11/866,881	2007-10-03	TECHNIQUES FOR DETERMINING LOCAL REPAIR PATHS USING CSPP
US	8599881	2013-12-03	13/722,534	2012-12-20	TECHNIQUES FOR DETERMINING LOCAL REPAIR PATHS USING CSPP
US	8190881	2012-05-28	11/974,838	2007-10-15	SCALABLE DISTRIBUTED WEB-BASED AUTHENTICATION
US	7832009	2010-11-09	11/616,209	2006-12-26	ATTACK PREVENTION TECHNIQUES
US	8509106	2013-08-13	12/697,627	2010-10-04	ATTACK PREVENTION TECHNIQUES
US	8032540	2011-10-04	11/193,064	2005-07-28	DESCRIPTION-BASED USER INTERFACE ENGINE FOR NETWORK MANAGEMENT APPLICATIONS
US	7831996	2010-11-09	11/496,788	2006-07-31	AUTHENTICATION TECHNIQUES
US	8122485	2012-02-21	12/896,645	2010-10-01	AUTHENTICATION TECHNIQUES
US	8522311	2013-08-27	13/356,449	2012-01-23	AUTHENTICATION TECHNIQUES
US	7657703	2010-02-02	11/118,697	2005-04-28	DOUBLE DENSITY CONTENT ADDRESSABLE MEMORY (CAM) LOOKUP SCHEME
US	7953922	2011-05-31	12/639,749	2009-12-16	DOUBLE DENSITY CONTENT ADDRESSABLE MEMORY (CAM) LOOKUP SCHEME
US	7953923	2011-05-31	12/639,762	2009-12-16	DOUBLE DENSITY CONTENT ADDRESSABLE MEMORY (CAM) LOOKUP SCHEME
US	8528071	2013-09-03	10/925,155	2004-08-24	SYSTEM AND METHOD FOR FLEXIBLE AUTHENTICATION IN A DATA COMMUNICATIONS NETWORK
US	8280998	2012-10-02	13/023,292	2011-02-08	CONFIGURABLE GEOGRAPHIC PREFIXES FOR GLOBAL SERVER LOAD BALANCING
US	8510428	2013-08-13	13/595,952	2012-08-27	CONFIGURABLE GEOGRAPHIC PREFIXES FOR GLOBAL SERVER LOAD BALANCING
US	8599850	2013-12-03	12/684,022	2010-01-07	PROVISIONING USING ETHERNET SERVICE INSTANCES IN A SINGLE OR A MULTISTAGE NETWORK
US	9168816	2015-10-20	14/082,546	2013-11-18	PROVISIONING SINGLE OR MULTISTAGE NETWORKS USING ETHERNET SERVICE INSTANCES (ESIS)
US	7301896	2007-11-27	10/207,541	2002-07-09	CREDIT SHARING FOR FIBRE CHANNEL LINKS WITH MULTIPLE VIRTUAL CHANNELS
US	7139240	2006-11-21	10/134,744	2002-04-29	FRAME-PULL FLOW CONTROL IN A FIBRE CHANNEL NETWORK
US	7433299	2008-10-07	10/056,823	2002-01-24	FAULT TOLERANT UPDATES TO A DISTRIBUTED FIBRE CHANNEL DATABASE
US	7161935	2007-01-09	10/062,977	2002-01-21	NETWORK FABRIC MANAGEMENT VIA ADJUNCT PROCESSOR INTER-FABRIC SERVICE LINK

Country	Patent No.	Grant Date	Application Number	Filed Date	App Title
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US	6772207	2004-08-03	09/239,483	1999-01-28	SYSTEM AND METHOD FOR MANAGING FIBRE CHANNEL SWITCHING DEVICES
US	9787524	2017-10-10	10/201,331	2002-07-23	FIBRE CHANNEL VIRTUAL HOST BUS ADAPTER
US	7286544	2007-10-23	10/205,214	2002-07-25	VIRTUALIZED MULTI-PORT SWITCH
US	7307995	2007-12-11	10/208,430	2002-07-30	INFINIBAND ROUTER HAVING AN INTERNAL SUBNET ARCHITECTURE
US	7401157	2008-07-15	10/208,429	2002-07-30	COMBINING SEPARATE INFINIBAND SUBNETS INTO VIRTUAL SUBNETS SUPPORTING LOCAL IS PACKET COMMUNICATION BETWEEN SEPARATE SUBNETS
US	7221876	2007-05-22	10/208,428	2002-07-30	EXTENT-BASED FIBRE CHANNEL ZONING IN HARDWARE
US	7352740	2008-04-01	10/425,556	2003-04-29	FIBRE CHANNEL FABRIC COPY SERVICE
US	9712613	2017-07-18	10/425,567	2003-04-29	FIBRE CHANNEL SWITCH HAVING A PUSH/PULL METHOD FOR CACHING REMOTE SWITCH INFORMATION
US	7187659	2007-03-06	10/208,376	2002-07-30	FABRIC MANAGER MULTIPLE DEVICE LOGIN
US	8032931	2011-10-04	10/283,662	2002-10-30	FABRIC MEMBERSHIP MONITORING
US	7334033	2008-02-19	10/356,389	2003-01-31	DYNAMIC LINK DISTANCE CONFIGURATION FOR EXTENDED FABRIC
US	7600035	2009-10-06	10/356,654	2003-01-31	VIRTUAL CHANNEL REMAPPING
US	7656898	2010-02-02	10/687,081	2003-09-18	NETWORK PATH TRACING METHOD
US	8179808	2012-05-15	10/899,588	2003-10-31	APPARATUS FOR REDUCING DATA CORRUPTION IN NON-VOLATILE MEMORY SUPPLEMENTARY HEADER FOR MULTIFABRIC AND HIGH PORT COUNT SWITCH
US	7227803	2007-06-05	10/633,264	2003-07-31	SUPPORT IN A FIBRE CHANNEL NETWORK FIBRE CHANNEL ZONING HARDWARE FOR DIRECTING A DATA PACKET TO AN EXTERNAL PROCESSING DEVICE
US	7460537	2008-12-02	10/767,410	2004-01-29	NETWORK PATH TRACING METHOD
US	7430203	2008-09-30	10/767,213	2004-01-29	METHODS, DEVICES AND SYSTEMS WITH IMPROVED ZONE MERGE OPERATION BY INITIATOR SELECTION
US	8050180	2011-11-01	10/699,603	2003-10-31	METHODS, DEVICES AND SYSTEMS WITH IMPROVED ZONE MERGE OPERATION BY OPERATING ON A SWITCH BASIS
US	8989045	2015-03-24	10/966,180	2004-11-12	PROXYING MULTIPLE DEVICES AS ONE DEVICE USING LOOKUP TABLE
US	8700799	2014-04-15	10/987,441	2004-11-12	HOST BUS ADAPTER WITH MULTIPLE HOSTS
US	8930558	2015-01-06	12/169,724	2008-07-09	MIGRATION IN A DISTRIBUTED FILE SYSTEM
US	7869000	2010-02-23	11/877,116	2007-10-23	OPEN FILE MIGRATION OPERATIONS IN A DISTRIBUTED FILE SYSTEM
US	9031899	2015-05-12	11/952,558	2007-12-07	DATA BUFFER MEMORY COMPRESSION
US	9089779	2015-06-30	11/952,591	2007-12-07	FIBER OPTIC SWITCH
US	6825671	2003-09-23	09/303,704	1999-05-03	METHOD AND APPARATUS FOR BOOTING A MICROPROCESSOR MODULAR CHASSIS DIVIDED ALONG A MIDPLANE AND COOLING SYSTEM THEREFOR
US	D453,146	2002-01-29	29/122,449	2000-04-28	RULE-BASED ROUTING IN A SWITCH
US	7032106	2008-04-18	10/026,707	2001-12-27	SELF-DESCRIPTION EXTENDED LINK SERVICE FOR NETWORKS
US	7164581	2007-01-16	10/873,374	2004-06-21	LINK INCIDENT REPORTING EXTENDED LINK SERVICE FOR NETWORKS
US	7823519	2009-11-24	10/873,547	2004-06-21	HIGH PERFORMANCE CROSSBAR SWITCH
US	8347334	2002-02-12	09/225,949	1999-01-06	ROUTE LOOKUP CACHING FOR A FIBRE CHANNEL SWITCH
US	6115361	2000-09-05	09/225,521	1999-01-06	COMPACT SHARED ROUTE LOOKUP TABLE FOR A FIBRE CHANNEL SWITCH
US	8138186	2000-10-24	09/183,386	1998-10-29	MULTI-RATE SHARED MEMORY ARCHITECTURE FOR FRAME STORAGE AND SWITCHING
US	6606322	2003-08-12	09/932,534	2001-08-17	FINE GRANULARITY ACCESS CONTROL FOR STORAGE AREA NETWORK
US	6804245	2004-10-12	09/932,349	2001-08-17	CONGESTION MANAGEMENT GROUPS
US	7064312	2006-05-30	09/932,223	2001-08-17	MULTI-LEVEL CONTENT ADDRESSABLE MEMORY
US	8762552	2014-06-24	11/105,937	2005-04-13	VOICE OVER IP ARCHITECTURE
US	7952997	2011-05-31	11/437,389	2006-05-18	VOICE OVER IP ARCHITECTURE
US	7606968	2009-10-20	11/430,389	2006-05-08	TECHNIQUES FOR EFFICIENTLY UPDATING ROUTING INFORMATION UPON SHORTEST PATH TREE COMPUTATION
US	7139253	2006-11-21	10/071,068	2002-02-11	DYNAMIC CONFIGURATION OF LIVELINESS DETECTION
US	8040877	2011-10-18	11/581,095	2006-10-16	TRANSACTION AND CONNECTION INDEPENDENT PROTOCOL LOAD BALANCING
US	8565247	2013-10-22	12/544,170	2009-06-19	TRANSACTION AND CONNECTION INDEPENDENT PROTOCOL LOAD BALANCING
US	9106512	2015-08-11	14/057,680	2013-10-18	SYSTEM AND METHOD FOR ROUTER VIRTUAL NETWORKING
US	8185032	2012-04-24	12/412,786	2009-03-27	GATEWAY FOR PROCESSING WIRELESS DATA CONTENT
US	8059653	2011-11-15	12/403,130	2009-03-12	HOT-SWAPPABLE HIGH SPEED POINT-TO-POINT INTERFACE
US	8893477	2014-04-08	13/296,112	2011-11-14	HOT-SWAPPABLE HIGH SPEED POINT-TO-POINT INTERFACE
US	7813183	2009-11-03	09/703,038	2000-10-31	SEGMENTED CRC DESIGN IN HIGH SPEED NETWORKS
US	7016360	2006-03-21	09/975,092	2001-10-10	A VIRTUAL ROUTER WITH A PRIORITY VALUE PER PORT
US	8032209	2000-02-29	09/122,540	1998-07-24	A VIRTUAL ROUTER WITH A PRIORITY VALUE PER PORT
US	8212586	2001-04-03	09/456,659	1999-12-09	MONITORING SERVER LOAD BALANCING
US	8271859	2012-09-18	11/779,714	2007-07-18	MONITORING SERVER LOAD BALANCING
US	7936666	2011-05-03	12/106,176	2008-04-18	ROUTER SWITCH FABRIC PROTECTION USING FORWARD ERROR CORRECTION
US	8619552	2013-12-31	13/095,695	2011-04-27	SYSTEM AND METHOD FOR ROUTER MULTICAST CONTROL
US	8248928	2012-08-21	11/937,285	2007-11-08	SYSTEM AND METHOD FOR ROUTER PACKET CONTROL AND ORDERING
US	9270566	2016-02-23	13/584,534	2012-08-13	SYSTEM AND METHOD FOR ROUTER QUEUE AND CONGESTION MANAGEMENT
US	8315175	2012-11-20	10/981,841	2004-11-05	SYSTEM AND METHOD FOR ROUTER QUEUE AND CONGESTION MANAGEMENT
US	6993024	2006-01-31	09/714,426	2000-11-16	SYSTEM AND METHOD FOR ROUTER ARBITER PROTECTION SWITCHING
US	6876657	2005-04-05	09/737,546	2000-12-14	SYSTEM AND METHOD FOR ROUTER ARBITER PROTECTION SWITCHING
US	7002980	2006-02-21	09/740,923	2000-12-19	SYSTEM AND METHOD FOR ROUTER QUEUE AND CONGESTION MANAGEMENT
US	7813365	2010-10-12	11/272,998	2005-11-14	SYSTEM AND METHOD FOR ROUTER QUEUE AND CONGESTION MANAGEMENT
US	7974208	2011-07-05	12/777,069	2010-05-10	SYSTEM AND METHOD FOR ROUTER QUEUE AND CONGESTION MANAGEMENT
US	6999411	2006-02-14	09/760,027	2001-01-12	SYSTEM AND METHOD FOR ROUTER ARBITER PROTECTION SWITCHING

Country	Patent No.	Grant Date	Application Number	Filed Date	App Title
US	7788381	2010-08-31	09/953,714	2001-09-17	SYSTEM AND METHOD FOR ROUTER KEEP-ALIVE CONTROL
US	8190748	2012-06-29	12/833,879	2009-12-08	SYSTEM AND METHOD FOR ROUTER KEEP-ALIVE CONTROL
US	8977753	2015-03-10	12/945,128	2010-11-12	SYSTEM AND METHOD FOR ROUTER KEEP-ALIVE CONTROL
US	7483433	2009-01-27	09/954,362	2001-09-17	SYSTEM AND METHOD FOR ROUTER DATA DISTRIBUTION
US	8335219	2012-12-18	12/333,029	2008-12-11	SYSTEM AND METHOD FOR ROUTER DATA DISTRIBUTION
US	7292535	2007-11-06	10/153,500	2002-05-23	HIGHLY-AVAILABLE OSPF ROUTING PROTOCOL
US	7236453	2007-06-26	10/185,809	2002-06-27	HIGH AVAILABLE METHOD FOR BORDER GATEWAY PROTOCOL VERSION 4
US	7499394	2009-03-03	11/819,034	2007-06-25	SYSTEM FOR HIGHLY AVAILABLE BORDER GATEWAY PROTOCOL
US	8467287	2013-06-18	12/260,719	2008-10-29	HIGH AVAILABLE METHOD FOR BORDER GATEWAY PROTOCOL VERSION 4
US	7307979	2007-12-11	10/210,414	2002-07-31	CONFIGURATION ROLLBACK
US	8291143	2012-10-16	12/369,841	2009-02-11	SINGLE LINE COMMUNICATION LOAD BALANCE CONNECTIONS PER SERVER IN MULTICORE/MULTIBLADE SYSTEM
US	9411656	2016-08-09	12/489,366	2009-06-22	SYSTEM
US	8335884	2012-12-18	12/501,389	2009-07-10	MASSIVE MULTI-CORE PROCESSOR BUILT WITH SERIAL SWITCHING
US	8856421	2014-10-07	13/715,874	2012-12-14	MASSIVE MULTI-CORE PROCESSOR BUILT WITH SERIAL SWITCHING
US	8976659	2015-03-10	13/645,293	2012-10-04	INTELLIGENT LAYER-2 FORWARDING
US	9703796	2017-07-11	13/677,957	2012-11-15	SHARED DICTIONARY BETWEEN DEVICES
US	9270609	2016-02-23	13/678,032	2012-11-15	FLOW-BASED TCP
US	9356859	2016-05-31	13/585,668	2012-08-14	FASTER FAILOVER FOR FAST REROUTE (FRR) LSPS
US	9736065	2017-08-15	13/598,204	2012-08-29	END-TO-END LOSSLESS ETHERNET IN ETHERNET FABRIC
US	8856548	2014-10-07	12/585,725	2012-08-14	PUBLIC CLOUD DATA AT REST SECURITY
US	8862899	2014-10-14	13/585,720	2012-08-14	STORAGE ACCESS AUTHENTICATION MECHANISM
US	9143335	2015-09-22	13/621,138	2012-09-15	MULTICAST ROUTE CACHE SYSTEM
US	8603464	2013-08-06	13/177,028	2011-07-06	TECHNIQUES FOR EFFICIENTLY UPDATING ROUTING INFORMATION
US	9007918	2015-04-15	13/925,665	2013-06-24	TECHNIQUES FOR EFFICIENTLY UPDATING ROUTING INFORMATION
US	9401861	2016-07-26	13/425,238	2012-03-20	SCALABLE MAC ADDRESS DISTRIBUTION IN AN ETHERNET FABRIC SWITCH
US	9402271	2016-07-26	13/345,566	2012-01-06	CONVERGED WIRELESS LOCAL AREA NETWORK
US	8839113	2014-09-16	13/281,602	2011-10-26	METHOD FOR BRIDGING MULTIPLE NETWORK VIEWS
US	8995435	2015-03-31	13/440,861	2012-04-05	PORT PROFILE ANALYTICS
US	8995287	2015-03-31	13/440,870	2012-04-05	AMPP ACTIVE PROFILE PRESENTATION
US	8984266	2015-03-17	13/085,330	2011-04-13	TECHNIQUES FOR STOPPING ROLLING REBOOTS
US	8412831	2013-04-02	12/534,457	2009-08-03	PER PRIORITY TCP QOS
US	8745243	2014-06-03	12/880,495	2010-09-13	FCIP COMMUNICATIONS WITH LOAD SHARING AND FAILOVER
US	8588075	2013-11-19	12/681,936	2010-09-14	MANAGEABILITY TOOLS FOR LOSSLESS NETWORKS
US	8792354	2014-07-29	14/040,146	2013-09-27	MANAGEABILITY TOOLS FOR LOSSLESS NETWORKS
US	8498213	2013-07-30	12/881,949	2010-09-14	MANAGEABILITY TOOLS FOR LOSSLESS NETWORKS
US	8767561	2014-07-01	13/930,771	2013-06-28	MANAGEABILITY TOOLS FOR LOSSLESS NETWORKS
US	8542583	2013-08-24	12/881,962	2010-09-14	MANAGEABILITY TOOLS FOR LOSSLESS NETWORKS
US	8860075	2014-02-02	13/155,159	2011-06-07	CONGESTION NOTIFICATION IN PRIVATE VLANS
US	8880507	2014-11-04	12/913,717	2010-10-27	LONGEST PREFIX MATCH USING BINARY SEARCH TREE
US	8737418	2014-05-27	13/032,445	2011-02-22	QUEUE SPEED-UP BY USING MULTIPLE LINKED LISTS
US	9143459	2015-09-22	14/253,763	2014-04-15	QUEUE SPEED-UP BY USING MULTIPLE LINKED LISTS
US	8842536	2014-09-23	12/977,933	2010-12-23	INGRESS RATE LIMITING
US	8756602	2014-06-17	13/283,802	2011-10-28	VIRTUAL MACHINE AND APPLICATION MOVEMENT OVER A WIDE AREA NETWORK
US	9565126	2017-02-07	14/260,032	2014-04-23	VIRTUAL MACHINE AND APPLICATION MOVEMENT OVER A WIDE AREA NETWORK
US	9781052	2017-10-03	15/387,167	2016-12-21	VIRTUAL MACHINE AND APPLICATION MOVEMENT OVER A WIDE AREA NETWORK
US	8599891	2013-12-03	12/881,980	2010-09-14	MANAGEABILITY TOOLS FOR LOSSLESS NETWORKS
US	8908525	2014-12-09	14/082,562	2013-10-24	MANAGEABILITY TOOLS FOR LOSSLESS NETWORKS
US	9571423	2017-02-14	13/026,369	2011-02-14	PORT DECOMMISSIONING
US	8774052	2014-07-08	13/401,287	2012-02-21	VIRTUAL PORT WORLD WIDE NAMES
US	8929252	2015-01-06	14/295,104	2014-06-03	VIRTUAL PORT WORLD WIDE NAMES
US	9727501	2017-08-08	13/285,833	2011-10-31	SAN FABRIC ONLINE PATH DIAGNOSTICS
US	9,807,031	2017-10-31	13/184,526	2011-07-16	CONFIGURATION ORCHESTRATION INFRASTRUCTURE
US	8135973	2012-03-13	11/983,175	2007-11-06	SYSTEM AND METHOD FOR DYNAMICALLY MANAGING GROUPS OF POWER SUPPLIES FOR A COMPUTER SYSTEM
US	7627654	2009-12-01	10/456,756	2003-06-09	SYSTEM AND METHOD FOR MULTIPLE SPANNING TREE PROTOCOL DOMAINS IN A VIRTUAL LOCAL AREA NETWORK
US	7856490	2010-12-21	12/580,230	2009-10-15	SYSTEM AND METHOD FOR MULTIPLE SPANNING TREE PROTOCOL DOMAINS IN A VIRTUAL LOCAL AREA NETWORK
US	8340300	2012-12-25	11/895,884	2007-08-27	NON-DISRUPTIVE AUTHENTICATION ADMINISTRATION
US	7587485	2009-09-08	10/251,459	2002-09-19	SYSTEM AND METHOD FOR SUPPLICANT BASED ACCOUNTING AND ACCESS
US	8041812	2011-10-18	12/510,960	2009-07-28	SYSTEM AND METHOD FOR SUPPLICANT BASED ACCOUNTING AND ACCESS
US	7872979	2011-01-18	11/954,174	2007-12-11	SYSTEM AND METHOD TO ACCESS AND ADDRESS HIGH-SPEED INTERFACE CONVERTER DEVICES
US	8320401	2012-11-27	12/978,968	2010-12-27	SYSTEM AND METHOD TO ACCESS AND ADDRESS HIGH-SPEED INTERFACE CONVERTER DEVICES
US	7720977	2010-05-18	10/364,892	2003-02-11	COOKIE INVALIDATION OR EXPIRATION BY A SWITCH
US	7877491	2011-01-25	12/760,545	2010-04-14	COOKIE INVALIDATION OR EXPIRATION BY A SWITCH
US	7925789	2011-04-12	12/781,787	2010-05-17	COOKIE INVALIDATION OR EXPIRATION BY A SWITCH
US	8327000	2012-12-04	12/961,438	2010-12-06	COOKIE INVALIDATION OR EXPIRATION BY A SWITCH
US	6951513	2005-10-04	10/429,200	2003-05-02	ENCLOSURE FOR THE STORAGE AND OPERATION OF ELECTRONIC COMPONENTS HAVING INCREASED AIRFLOW CHARACTERISTICS

Country	Patent No.	Grant Date	Application Number	Filed Date	App Title
US	6702665	2004-03-09	10/428,909	2003-05-02	A SYSTEM AND METHOD FOR THERMALLY REGULATING A COMPUTER RESPONSIVE TO A SENSOR FAILURE
US	7238104	2007-07-03	10/428,161	2003-05-02	A SYSTEM AND METHOD FOR VENTING AIR FROM A COMPUTER CASING
US	7586856	2009-09-08	10/394,344	2003-03-20	TECHNICAL ENHANCEMENTS TO STP (IEEE 802.1D) IMPLEMENTATION
US	7969915	2011-06-28	12/509,313	2009-07-24	TECHNICAL ENHANCEMENTS TO STP (IEEE 802.1D) IMPLEMENTATION
US	6901072	2005-05-31	10/438,545	2003-05-15	SYSTEM AND METHOD FOR HIGH SPEED PACKET TRANSMISSION IMPLEMENTING DUAL TRANSMIT AND RECEIVE PIPELINES
US	7636369	2009-12-22	11/000,359	2004-11-29	IMPLEMENTING DUAL TRANSMIT AND RECEIVE PIPELINES
US	8811390	2014-08-19	12/608,972	2009-09-29	SYSTEM AND METHOD FOR HIGH SPEED PACKET TRANSMISSION
US	8718051	2014-05-06	12/608,985	2009-09-29	SYSTEM AND METHOD FOR HIGH SPEED PACKET TRANSMISSION
US	9461940	2016-10-04	14/326,859	2014-07-09	SYSTEM AND METHOD FOR HIGH SPEED PACKET TRANSMISSION
US	8325717	2012-12-04	10/630,494	2003-07-30	METHOD AND SYSTEM FOR IP FRAGMENTATION HANDLING SYSTEM, METHOD AND APPARATUS FOR PROVIDING MULTIPLE ACCESS
US	7676772	2011-01-25	10/631,896	2003-08-01	MODES IN A DATA COMMUNICATION NETWORK SYSTEM, METHOD AND APPARATUS FOR PROVIDING MULTIPLE ACCESS
US	8249096	2012-08-21	12/669,602	2010-08-26	MODES IN A DATA COMMUNICATION NETWORK SYSTEM, METHOD AND APPARATUS FOR PROVIDING MULTIPLE ACCESS
US	8681800	2014-03-27	13/461,519	2012-05-01	MODES IN A DATA COMMUNICATION NETWORK MULTIPLE HIERED NETWORK SECURITY SYSTEM, METHOD AND APPARATUS
US	7735114	2010-06-08	10/654,417	2003-09-04	USING DYNAMIC USER POLICY ASSIGNMENT MULTIPLE HIERED NETWORK SECURITY SYSTEM, METHOD AND APPARATUS
US	8239929	2012-08-07	12/769,626	2010-04-28	USING DYNAMIC USER POLICY ASSIGNMENT
US	7698455	2010-04-13	10/632,484	2003-08-01	METHOD FOR PROVIDING SCALABLE MULTICAST SERVICE IN A VIRTUAL PRIVATE LAN SERVICE
US	8051201	2011-11-01	12/709,338	2010-02-19	METHOD FOR PROVIDING SCALABLE MULTICAST SERVICE IN A VIRTUAL PRIVATE LAN SERVICE
US	9049047 ZL	2015-06-02	13/278,599	2011-10-21	METHOD FOR PROVIDING SCALABLE MULTICAST SERVICE IN A VIRTUAL PRIVATE LAN SERVICE
China	201410328050.2	2018-05-22	201410328050.2	2014-07-10	FLEXIBLE FLOW OFFLOAD
Germany	602014006752.2	2017-02-15	14002284.9	2014-07-03	FLEXIBLE FLOW OFFLOAD
United Kingdom	2824880	2017-02-15	14002284.9	2014-07-03	FLEXIBLE FLOW OFFLOAD
US	8658472	2003-12-02	09/536,961	2000-03-28	COMMUNICATION SYSTEMS, FIREWALL DEVICES, AND COMMUNICATION METHODS
United Kingdom	GB2365293	2004-03-23	GB0106152.2	2001-03-13	COMMUNICATION SYSTEMS FIREWALL DEVICES AND COMMUNICATION METHODS
US	6853617	2005-02-08	09/852,223	2001-05-08	SYSTEM AND METHOD FOR TCP CONNECTION PROTECTION SWITCHING
US	9100203	2015-08-04	13/556,061	2012-07-23	IP MULTICAST OVER MULTI-CHASSIS TRUNK
US	9699117	2017-07-04	13/669,357	2012-11-05	INTEGRATED FIBRE CHANNEL SUPPORT IN AN ETHERNET FABRIC SWITCH
US	10,015,900	2018-07-03	13/781,506	2013-02-28	COMPACT FLASH RETAINER
United Kingdom	1271861	2005-09-14	2254403.5	2002-06-24	SYSTEM AND METHOD FOR ROUTER VIRTUAL NETWORKING
Germany	60201706	2004-10-27	60201706.799999999	2002-05-02	SYSTEM AND METHOD FOR ROUTER CONNECTION PROTECTION SWITCHING
United Kingdom	1261186	2004-10-27	2253109.92253409.9	2002-05-02	SYSTEM AND METHOD FOR ROUTER CONNECTION PROTECTION SWITCHING
US	7441017	2008-10-21	09/896,228	2001-06-29	SYSTEM AND METHOD FOR ROUTER VIRTUAL NETWORKING
US	7739360	2010-06-15	12/210,957	2008-09-15	SYSTEM AND METHOD FOR ROUTER VIRTUAL NETWORKING
US	8010637	2011-08-30	12/767,210	2010-04-26	SYSTEM AND METHOD FOR ROUTER VIRTUAL NETWORKING
US	7647427	2010-01-12	10/273,657	2002-10-18	REDUNDANCY SUPPORT FOR NETWORK ADDRESS TRANSLATION (NAT)
US	7716370	2010-05-11	11/657,981	2007-01-24	REDUNDANCY SUPPORT FOR NETWORK ADDRESS TRANSLATION (NAT)
US	8755267	2014-06-17	12/759,438	2010-04-13	REDUNDANCY SUPPORT FOR NETWORK ADDRESS TRANSLATION (NAT)
US	9379968	2016-06-28	14/248,247	2014-04-08	REDUNDANCY SUPPORT FOR NETWORK ADDRESS TRANSLATION (NAT)
US	7086061	2006-08-01	10/211,822	2002-08-01	STATISTICAL TRACKING OF GLOBAL SERVER LOAD BALANCING FOR SELECTING THE BEST NETWORK ADDRESS FROM ORDERED LIST OF NETWORK ADDRESSES BASED ON A SET OF PERFORMANCE METRICS
US	7676576	2010-03-09	10/377,364	2003-02-28	METHOD AND SYSTEM TO CLEAR COUNTERS USED FOR STATISTICAL TRACKING FOR GLOBAL SERVER LOAD BALANCING
US	8949850	2015-02-03	11/429,177	2006-05-05	STATISTICAL TRACKING FOR GLOBAL SERVER LOAD BALANCING
US	7574508	2009-08-11	10/214,921	2002-08-07	CANONICAL NAME (CNAME) HANDLING FOR GLOBAL SERVER LOAD BALANCING
US	8593964	2013-11-26	12/614,256	2009-11-06	METHOD AND SYSTEM FOR TRAFFIC MANAGEMENT
US	9391849	2016-07-12	12/614,286	2009-11-06	BACK PRESSURE REMEDIATION
US	8989201	2015-03-24	12/575,607	2009-10-06	MAPPING LOGICAL PORTS OF A NETWORK SWITCH TO PHYSICAL PORTS
US	8831013	2014-09-09	12/575,608	2009-10-06	VIRTUAL AND LOGICAL INTER-SWITCH LINKS
US	8599864	2013-12-03	12/575,610	2009-10-06	TRANSIT SWITCHES IN A NETWORK OF LOGICAL SWITCHES
US	9274651	2016-03-01	12/626,432	2009-11-25	CORE-BASED VIRTUALIZATION
US	7460528	2008-12-02	10/414,891	2003-04-15	PROCESSING DATA PACKETS AT A STORAGE SERVICE MODULE OF A SWITCH
US	7382776	2008-06-03	10/414,889	2003-04-15	PERFORMING BLOCK STORAGE VIRTUALIZATION AT A SWITCH
US	7906734	2011-03-15	11/669,070	2007-01-30	ELECTRIC TERMINAL FOOTPRINTS FOR A PRINTED CIRCUIT BOARD
US	8223633	2012-07-17	12/245,269	2008-10-03	PORT TRUNKING AT A FABRIC BOUNDARY
US	8160072	2012-04-17	12/638,591	2009-12-11	METHOD AND SYSTEM FOR FACILITATING QOS ZONING IN A NETWORK
US	9270580	2016-02-23	12/550,227	2009-08-28	METHOD AND SYSTEM FOR TRAFFIC ISOLATION IN A NETWORK
US	7743144	2010-06-22	10/698,933	2003-11-03	SECURING FOR AN ACCESS PROVIDER (BEING PROSECUTED BY ADJOINTLY OWNED)

Country	Patent No.	Grant Date	Application Number	Filed Date	App Title
US	8106531	2012-01-31	12/775,783	2010-05-07	SECURING FOR AN ACCESS PROVIDER (BEING PROSECUTED BY AJOINTLY OWNED)
US	8850046	2014-09-30	13/361,765	2012-01-30	SECURING FOR AN ACCESS PROVIDER (BEING PROSECUTED BY AJOINTLY OWNED)
US	7711780	2010-05-04	09/666,140	2000-09-20	SECURING AN ACCESSIBLE COMPUTER SYSTEM (BEING PROSECUTED BY AJOINTLY OWNED)
US	9288218	2016-03-15	12/727,499	2010-03-19	SECURING AN ACCESSIBLE COMPUTER SYSTEM (BEING PROSECUTED BY AJOINTLY OWNED)
US	6885660	2005-04-26	10/075,256	2002-02-15	END TO END NETWORK COMMUNICATION
US	6522629	2003-02-18	09/686,321	2000-10-10	TRAFFIC MANAGER, GATEWAY SIGNALING AND PROVISIONING SERVICE FOR ALL PACKETIZED NETWORKS WITH TOTAL SYSTEM-WIDE STANDARDS FOR BROAD-BAND APPLICATIONS INCLUDING ALL LEGACY SERVICES
US	7190676	2007-03-13	10/284,998	2002-10-31	TRAFFIC MANAGER, GATEWAY SIGNALING AND PROVISIONING SERVICE FOR ALL PACKETIZED NETWORKS WITH TOTAL SYSTEM-WIDE STANDARDS FOR BROAD-BAND APPLICATIONS INCLUDING ALL LEGACY SERVICES
US	7277431	2007-10-02	10/285,886	2002-10-31	METHOD AND APPARATUS FOR ENCRYPTION OR COMPRESSION STORAGE DEVICES INSIDE A STORAGE AREA NETWORK FABRIC
US	7383353	2008-06-03	10/208,969	2002-07-31	LOAD BALANCING IN A NETWORK COMPRISING COMMUNICATION PATHS HAVING DIFFERENT BANDWIDTHS
US	7742484	2010-06-02	10/903,471	2004-07-30	MULTIFABRIC COMMUNICATION USING BACKBONE FABRIC
US	8532119	2013-09-10	10/903,899	2004-07-30	INTERFABRIC ROUTING HEADER FOR USE WITH A BACKBONE FABRIC
US	7516226	2009-04-07	10/955,997	2004-09-30	TRANSMIT ADAPTIVE EQUALIZATION USING ORDERED SETS
US	6636239	2003-10-21	09/512,973	2000-02-24	METHOD OF OPERATING A GRAPHICAL USER INTERFACE TO SELECTIVELY ENABLE AND DISABLE A DATAPATH IN A NETWORK
US	9450870	2016-09-20	13/669,313	2012-11-05	SYSTEM AND METHOD FOR FLOW MANAGEMENT IN SOFTWARE-DEFINED NETWORKS
US	9516795	2016-12-06	13/558,321	2012-07-25	PRINTED CIRCUIT BOARD COVER
US	9407533	2016-08-02	13/351,513	2012-01-17	MULTICAST IN A TRILL NETWORK
US	8948056	2015-02-03	13/533,843	2012-06-26	SPANNING TREE BASED LOOP DETECTION FOR AN ETHERNET FABRIC SWITCH
US	9350564	2016-05-24	14/577,785	2014-12-19	SPANNING TREE BASED LOOP DETECTION FOR AN ETHERNET FABRIC SWITCH
US	9270572	2016-02-23	13/312,903	2011-12-06	LAYER-3 SUPPORT IN TRILL NETWORKS
US	8880494	2014-11-04	13/264,829	2011-10-28	LONGEST PREFIX MATCH SCHEME
US	7562390	2009-07-14	10/631,091	2003-07-31	SYSTEM AND METHOD FOR ARP ANTI-SPOOFING SECURITY
US	7523485	2009-04-21	10/631,366	2003-07-31	SYSTEM AND METHOD FOR SOURCE IP ANTI-SPOOFING SECURITY
US	8006304	2011-08-23	12/478,216	2009-06-04	SYSTEM AND METHOD FOR ARP ANTI-SPOOFING SECURITY
US	8245300	2012-08-14	12/478,229	2009-06-04	SYSTEM AND METHOD FOR ARP ANTI-SPOOFING SECURITY
US	8918875	2014-12-23	13/184,748	2011-07-18	SYSTEM AND METHOD FOR ARP ANTI-SPOOFING SECURITY
US	7516487	2009-04-07	10/850,505	2004-05-20	SYSTEM AND METHOD FOR SOURCE IP ANTI-SPOOFING SECURITY
US	7979903	2011-07-12	12/392,398	2009-02-25	SYSTEM AND METHOD FOR SOURCE IP ANTI-SPOOFING SECURITY
US	8533623	2013-09-10	12/392,422	2009-02-25	SYSTEM AND METHOD FOR SOURCE IP ANTI-SPOOFING SECURITY
US	8730961	2014-05-20	10/632,066	2004-04-26	SYSTEM AND METHOD FOR OPTIMIZING ROUTER LOOKUP
Germany	60 2012 023 337.0	2016-09-21	2777228	2014-05-30	SYSTEM AND METHOD FOR FLOW MANAGEMENT IN SOFTWARE-DEFINED NETWORKS
France	2777228	2016-09-21	12795941.9	2014-05-30	SYSTEM AND METHOD FOR FLOW MANAGEMENT IN SOFTWARE-DEFINED NETWORKS
United Kingdom	2777228	2016-09-21	2777228	2014-05-30	SYSTEM AND METHOD FOR FLOW MANAGEMENT IN SOFTWARE-DEFINED NETWORKS
US	9112817	2015-08-18	14/273,414	2014-05-08	EFFICIENT TRILL FORWARD
China	201280064571.0	2018-01-30	2012800645710	2014-06-25	SYSTEM AND METHOD FOR FLOW MANAGEMENT IN SOFTWARE-DEFINED NETWORKS
US	8929218	2015-01-06	13/113,917	2011-05-23	CONGESTION NOTIFICATION ACROSS MULTIPLE LAYER-2 DOMAINS
US	8694768	2014-04-08	13/094,242	2011-04-26	DETERMINATION AND DISPLAY OF LUN ENCRYPTION PATHS
US	9491040	2016-11-08	14/182,146	2014-02-17	DETERMINATION AND DISPLAY OF LUN ENCRYPTION PATHS
US	9225656	2015-12-29	13/096,725	2011-04-28	QUALITY OF SERVICE IN A HETEROGENEOUS NETWORK
US	8654630	2014-02-18	12/847,779	2010-07-30	TECHNIQUES FOR LINK REDUNDANCY IN LAYER 2 NETWORKS
US	8024441	2011-09-20	11/707,697	2007-02-16	GLOBAL SERVER LOAD BALANCING
US	7657629	2010-02-02	10/376,903	2003-02-28	GLOBAL SERVER LOAD BALANCING
US	9015323	2015-04-21	12/635,371	2009-12-10	GLOBAL SERVER LOAD BALANCING
US	7236490	2007-06-26	09/855,038	2001-05-15	BACKPLANE INTERFACE ADAPTER
US	7596139	2009-09-29	09/988,066	2001-11-16	BACKPLANE INTERFACE ADAPTER WITH ERROR CONTROL AND REDUNDANT FABRIC
US	7995560	2011-08-09	12/400,594	2009-03-09	BACKPLANE INTERFACE ADAPTER WITH ERROR CONTROL AND REDUNDANT FABRIC
US	8619761	2013-12-31	13/083,481	2011-04-08	BACKPLANE INTERFACE ADAPTER WITH ERROR CONTROL AND REDUNDANT FABRIC
US	8514716	2013-08-20	13/488,229	2012-06-04	BACKPLANE INTERFACE ADAPTER
US	9030937	2015-05-12	13/939,730	2013-07-11	BACKPLANE INTERFACE ADAPTER
US	8964754	2015-02-24	14/075,331	2013-11-08	BACKPLANE INTERFACE ADAPTER
US	7948872	2011-05-24	12/400,645	2009-03-09	BACKPLANE INTERFACE ADAPTER WITH ERROR CONTROL AND REDUNDANT FABRIC
US	7512127	2009-03-31	11/804,977	2007-05-21	BACKPLANE INTERFACE ADAPTER
US	7978702	2011-07-12	12/372,380	2009-02-17	BACKPLANE INTERFACE ADAPTER
US	8495418	2013-07-23	12/842,936	2010-07-23	ACHIEVING ULTRA-HIGH AVAILABILITY USING A SINGLE CPU
US	9026848	2015-05-05	13/825,696	2013-06-24	ACHIEVING ULTRA-HIGH AVAILABILITY USING A SINGLE CPU
US	9619349	2017-04-11	14/514,253	2014-10-14	BIASING ACTIVE-STANDBY DETERMINATION
US	10,003,552	2018-06-19	14/830,035	2015-08-19	DISTRIBUTED BIDIRECTIONAL FORWARDING DETECTION PROTOCOL (D-BFD) FOR CLUSTER OF INTERCONNECTED SWITCHES

Country	Patent No.	Grant Date	Application Number	Filed Date	App Title
US	9,912,536	2018-03-08	14/874,055	2015-10-02	TECHNIQUES FOR FACILITATING PORT MIRRORING IN VIRTUAL NETWORKS
US	9899029	2017-07-04	14/512,268	2014-10-10	DISTRIBUTED CONFIGURATION MANAGEMENT IN A SWITCH GROUP
US	9624173	2016-12-20	14/511,026	2014-10-09	FAST REBOOT FOR A SWITCH
US	9854422	2017-05-16	14/835,294	2015-08-25	INCREASED FABRIC SCALABILITY BY DESIGNATING ROUTER GROUPS
US	9860196	2018-01-02	14/835,313	2015-08-25	INCREASED FABRIC SCALABILITY BY LOCATION BASED ZONING
US	9253919	2016-02-02	14/106,414	2013-12-13	ELECTRONIC COMPONENT COOLING SYSTEM AND METHOD
China	ZL201410602597.7	2017-04-12	201410602597.7	2014-10-31	ELECTRONIC COMPONENT COOLING SYSTEM AND METHOD
US	9360730	2016-06-28	14/446,994	2014-07-30	CASTOR FRONT SLANT PERFORATION
China	ZL201410601568.9	2018-02-16	201410601568.9	2014-10-31	CASTOR FRONT SLANT PERFORATION
US	9297496	2016-03-29	14/160,177	2014-01-21	BOTTOM RAIL SYSTEMS FOR PLUG-IN MODULES AND FRUS
US	9546873	2017-01-17	14/618,941	2015-02-10	VXLAN KEEPALIVE MECHANISM
US	9279597	2016-03-08	14/452,110	2014-08-05	SELECTION OF ENVIRONMENTAL PROFILE BASED ON SYSTEM CONFIGURATION
US	9565099	2017-02-07	14/192,751	2014-02-27	SPANNING TREE IN FABRIC SWITCHES
US	9584425	2017-02-28	14/063,308	2013-10-25	BANDWIDTH OPTIMIZATION USING COALESCE DUP ACKS OPTIMIZING TRAFFIC FLOWS VIA DYNAMIC ROUTING PROTOCOL MODIFICATIONS WHEN USING SERVER VIRTUALIZATION WITH DYNAMIC ROUTING
US	9559962	2017-01-31	14/047,325	2013-10-07	ROUTING
US	9436232	2016-09-06	13/966,650	2013-08-14	SMART HOT-PLUG LATCH RETAINING MECHANISM AND METHOD
China	ZL201280060093.6	2017-01-10	201280060093.6	2012-12-05	TCP CONNECTION RELOCATION
EP	EP2788883	2017-01-11	12854618.1	2012-12-05	TCP CONNECTION RELOCATION
Germany	2788883	2017-01-11	12854618.1	2012-12-05	TCP CONNECTION RELOCATION
United Kingdom	2788883	2017-01-11	12854618.1	2012-12-05	TCP CONNECTION RELOCATION
Japan	5801363	2015-04-09	2013-509167	2012-11-01	VIRTUAL CLUSTER SWITCHING
Germany	2567512	2016-04-13	1	2012-10-26	VIRTUAL CLUSTER SWITCHING
US	9215830	2015-12-15	13/955,549	2013-07-31	ELECTRONIC COMPONENT ENCLOSURE VISUAL SHIELD AND METHOD
US	9014013	2015-04-21	13/786,626	2013-03-06	PACKET TRACING THROUGH CONTROL AND DATA PLANE OPERATIONS USING SMTP TRAP COMMANDS
China	ZL201280059770.2	2017-02-28	201280059770.2	2012-12-05	LOSSLESS CONNECTION FAILOVER FOR MIRRORED DEVICES
EP	2788886	2018-07-16	9	2012-12-05	LOSSLESS CONNECTION FAILOVER FOR MIRRORED DEVICES
United Kingdom	2567512	2016-04-13	1	2012-10-26	VIRTUAL CLUSTER SWITCHING
US	8665886	2014-03-04	12/725,249	2010-03-16	USING TRILL FOR REDUNDANT CONNECTIONS TO HOST
US	9019976	2015-04-28	14/172,683	2014-02-04	USING TRILL FOR REDUNDANT CONNECTIONS TO HOST
US	8341459	2012-12-25	12/183,581	2008-07-31	DATA MIGRATION WITHOUT INTERRUPTING HOST ACCESS ADDRESS ASSIGNMENT IN FIBRE CHANNEL OVER ETHERNET ENVIRONMENTS
US	8108454	2012-01-31	12/337,471	2008-12-17	ENVIRONMENTS
US	8817804	2014-08-26	12/610,044	2009-10-30	SELECTIVE NETWORK MERGING
US	9184997	2015-11-10	14/320,766	2014-07-01	SELECTIVE NETWORK MERGING METHOD AND APPARATUS FOR ENCRYPTION OF DATA ON STORAGE UNITS USING DEVICES INSIDE A STORAGE AREA NETWORK FABRIC METHOD AND APPARATUS FOR ENCRYPTION OF DATA ON STORAGE UNITS USING DEVICES INSIDE A STORAGE AREA NETWORK FABRIC
US	7533256	2009-05-12	10/285,345	2002-10-31	USING DEVICES INSIDE A STORAGE AREA NETWORK FABRIC
US	8041941	2011-10-18	12/415,597	2009-03-31	USING DEVICES INSIDE A STORAGE AREA NETWORK FABRIC
US	7936769	2011-05-03	10/903,877	2004-07-30	MULTIFABRIC ZONE DEVICE IMPORT AND EXPORT
US	8446913	2013-05-21	13/045,398	2011-03-10	MULTIFABRIC ZONE DEVICE IMPORT AND EXPORT SYSTEM AND METHOD FOR PROVIDING PROXY AND TRANSLATION DOMAINS IN A FIBRE CHANNEL ROUTER
US	7486712	2008-12-16	10/903,499	2004-07-30	A FIBRE CHANNEL ROUTER
US	8125992	2012-02-28	12/272,494	2008-11-17	A FIBRE CHANNEL ROUTER PORT EXPANDER FOR FIBRE CHANNEL FABRICS IN STORAGE AREA NETWORKS
US	7577134	2009-08-18	11/206,412	2005-08-19	PORT EXPANDER FOR FIBRE CHANNEL FABRICS IN STORAGE AREA NETWORKS
US	8228820	2012-07-24	12/500,441	2009-07-09	PORT EXPANDER FOR FIBRE CHANNEL FABRICS IN STORAGE AREA NETWORKS
US	7068651	2006-06-27	09/872,863	2001-06-01	FIBRE CHANNEL ADDRESS ADAPTOR HAVING DATA BUFFER EXTENSION AND ADDRESS MAPPING IN A FIBRE CHANNEL SWITCH METHOD AND APPARATUS FOR RENDERING A CELL-BASED SWITCH USEFUL FOR FRAME BASED PROTOCOLS
US	7515537	2009-04-07	11/478,419	2006-06-28	FOR FRAME BASED PROTOCOLS
US	6976623	2005-12-13	10/798,818	2004-03-10	INTERCONNECTION ARCHITECTURE FOR MANAGING MULTIPLE LOW BANDWIDTH CONNECTIONS OVER A HIGH BANDWIDTH LINK
US	8340120	2012-12-25	12/570,565	2009-09-30	USER SELECTABLE MULTIPLE PROTOCOL NETWORK INTERFACE DEVICE SYSTEMS AND METHODS FOR RECONFIGURING A NETWORK ADAPTER IN SLEEP MODE
US	8879570	2014-11-04	12/964,221	2010-12-09	SLEEP MODE
US	9100349	2016-08-04	13/679,900	2012-11-16	USER SELECTABLE MULTIPLE PROTOCOL NETWORK INTERFACE DEVICE SYSTEMS AND METHODS FOR RECONFIGURING A NETWORK ADAPTER IN SLEEP MODE
EP	2464052	2018-08-08	9	2011-11-23	SLEEP MODE
China	ZL201110407903.8	2015-02-04	201110407903.8	2011-12-09	SLEEP MODE
Hong Kong	HK1173005	2016-04-22	12113622.5	2012-12-31	SLEEP MODE
Germany	2412129	2015-07-22	10712624.5	2011-09-23	REDUNDANT HOST CONNECTION IN A ROUTED NETWORK
France	2412129	2015-07-22	10712624.5	2011-09-23	REDUNDANT HOST CONNECTION IN A ROUTED NETWORK
United Kingdom	2412129	2015-07-22	10712624.5	2011-09-23	REDUNDANT HOST CONNECTION IN A ROUTED NETWORK

Country	Patent No.	Grant Date	Application Number	Filed Date	App Title
US	8873563	2014-10-28	12/610,143	2009-10-30	TECHNIQUES FOR NEXT-HOP OPTIMIZATION
US	8625616	2014-01-07	13/098,360	2011-04-29	CONVERGED NETWORK EXTENSION
	ZL		201080019938.7999		
China	201080019938.8	2015-08-05	9	2011-11-04	USING TRILL FOR REDUNDANT CONNECTIONS TO HOST
US	7366194	2008-04-29	10/124,499	2002-04-17	FIBRE CHANNEL ZONING BY LOGICAL UNIT NUMBER IN HARDWARE
China	ZL 201180030594.5	2016-11-09	201180030594.5	2012-12-20	VIRTUAL CLUSTER SWITCHING
US	7933198	2011-04-26	12/130,677	2008-05-30	VIRTUAL ROUTER FAILOVER DAMPENING
US	8339943	2012-12-25	13/076,222	2011-03-30	VIRTUAL ROUTER FAILOVER DAMPENING
					VIRTUAL ROUTER IDENTIFIER THAT SPANS MULTIPLE INTERFACES IN A ROUTING DEVICE
US	8014409	2011-09-06	12/130,721	2008-05-30	HIGH SPEED COUNTER DESIGN
US	8576723	2013-11-05	12/271,394	2008-11-14	CONFIGURABLE ASSIGNMENTS OF WEIGHTS FOR EFFICIENT NETWORK ROUTING
US	7426561	2008-09-16	10/259,336	2002-09-27	FIBRE CHANNEL SWITCH THAT AGGREGATES REGISTERED STATE CHANGE NOTIFICATIONS
US	7386608	2008-06-10	10/208,401	2002-07-30	HIGH AVAILABILITY SYNCHRONIZATION ARCHITECTURE
US	7194552	2007-03-20	10/262,949	2002-10-29	A REDUOT MANAGER USABLE TO CHANGE FIRMWARE IN A HIGH AVAILABLE SINGLE PROCESSOR SYSTEM
US	7188237	2007-03-06	10/282,951	2002-10-29	PROVIDING A SINGLE HOP COMMUNICATION PATH BETWEEN A STORAGE DEVICE AND A NETWORK SWITCH
US	7194550	2007-03-20	09/944,425	2001-08-30	CONVERTING DATA SIGNALS IN A MULTIPLE COMMUNICATION PROTOCOL SYSTEM AREA NETWORK
US	7133416	2006-11-07	10/091,916	2002-03-05	PACKET LOCKSTEP SYSTEM AND METHOD
US	6985975	2006-01-10	09/895,288	2001-06-29	METHOD AND APPARATUS FOR PROVIDING OPTIMIZED HIGH SPEED LINK UTILIZATION
US	6862293	2005-03-01	10/010,813	2001-11-13	DYNAMIC SELECTION OF LOWEST LATENCY PATH IN A NETWORK SWITCH
US	7042891	2006-05-09	09/755,670	2001-01-04	AN APPARATUS AND METHOD FOR TRANSMIT/TRANSPORT PROTOCOL TERMINATION
US	7213045	2007-05-01	10/219,673	2002-08-16	AUTOMATIC SWITCH PORT SELECTION
US	8885657	2014-11-11	12/614,254	2009-11-06	STAGED PORT INITIATION OF INTERSWITCH LINKS
US	9660864	2017-05-23	12/560,962	2009-10-16	ADAPTIVE ASSET INFORMATION COLLECTION AND STORAGE
US	8892717	2014-11-18	12/135,542	2008-06-09	METHOD AND APPARATUS FOR FRAME REDIRECTION IN A STORAGE AREA NETWORK ENVIRONMENT
US	8050261	2011-11-01	12/140,898	2008-06-17	HBA BOOT USING NETWORK STORED INFORMATION
US	8805969	2014-08-12	12/117,606	2008-05-06	VIRTUAL DISK MAPPING
US	8171253	2012-05-01	12/609,133	2009-10-30	HARDWARE ACCELERATION METHOD FOR LOSSLESS DATA COMPRESSION
US	8694703	2014-04-08	12/796,812	2010-06-09	MULTI-PATH SWITCHING WITH EDGE-TO-EDGE FLOW CONTROL
US	8625427	2014-01-07	12/553,689	2009-09-03	TRANSMISSION BUFFER UNDER-RUN PROTECTION
US	8751881	2014-06-10	12/614,243	2009-11-06	CONGESTION-ADAPTIVE COMPRESSION
US	8750370	2014-06-10	12/554,491	2009-09-04	SIDE EXHAUST COOLING SYSTEM FOR RACK MOUNTED EQUIPMENT
US	8310832	2012-11-13	12/485,420	2009-06-16	CREATION AND DELETION OF LOGICAL PORTS IN A LOGICAL SWITCH
US	8982898	2015-03-17	12/575,611	2009-10-08	DEFINING AN OPTIMAL TOPOLOGY FOR A GROUP OF LOGICAL SWITCHES
US	8339994	2012-12-25	12/549,271	2009-08-27	REMOTE F PORT
US	8635375	2014-01-21	12/759,880	2010-04-14	EXACT MATCH LOOKUP SCHEME
US	9280609	2016-03-08	12/555,785	2009-09-08	REMOTE PORT MIRRORING
US	8986720	2015-03-31	12/725,171	2010-03-16	RE-KEYING DATA IN PLACE
US	8195956	2012-06-05	12/542,438	2009-08-17	DEVELOPING INITIAL AND SUBSEQUENT KEYID INFORMATION FROM A UNIQUE MEDIAID VALUE
US	8189790	2012-05-29	12/541,784	2009-08-14	IN-ORDER TRAFFIC AGGREGATION WITH REDUCED BUFFER USAGE
US	9137166	2015-09-15	12/695,401	2010-01-28	DYNAMIC PERFORMANCE MONITORING
US	8639802	2014-01-28	12/771,793	2010-04-30	CONFLICT IDENTIFICATION IN LABEL SWITCHED SERVICES
US	8675494	2014-03-18	12/631,559	2009-12-04	SCALABLE MAP DISPLAYS
US	9264317	2016-02-16	13/554,823	2012-07-20	MECHANISM TO ENABLE BUFFER TO BUFFER CREDIT RECOVERY USING LINK RESET PROTOCOL
US	9036479	2015-05-19	13/790,593	2013-03-08	SOURCE-BASED CONGESTION DETECTION AND CONTROL
US	7978607	2011-07-12	12/412,290	2009-03-26	SOURCE-BASED CONGESTION DETECTION AND CONTROL
US	8824294	2014-09-02	13/156,145	2011-06-08	STAGED STARTUP AFTER FAILOVER OR REBOOT
US	7065673	2006-06-20	10/282,950	2002-10-29	DISPLAY OF PORT TRANSMIT AND RECEIVE PARAMETERS SORTED BY HIGHER OF TRANSMIT OR RECEIVE VALUE
US	9559919	2017-01-31	13/789,475	2013-03-07	NETWORK SECURITY AND APPLICATIONS TO THE FABRIC ENVIRONMENT
US	8621567	2013-12-31	11/198,834	2005-08-05	METHOD AND APPARATUS FOR ROUTING BETWEEN FIBRE CHANNEL FABRICS
US	8061642	2011-12-20	10/358,392	2003-01-31	METHOD AND APPARATUS FOR ROUTING BETWEEN FIBRE CHANNEL FABRICS
US	9172556	2015-10-27	13/284,778	2011-10-28	EXTERNAL LOOP DETECTION FOR AN ETHERNET FABRIC SWITCH
US	9007958	2015-04-14	13/484,072	2012-05-30	DIAGNOSTIC PORT FOR INTER-SWITCH AND NODE LINK TESTING IN ELECTRICAL, OPTICAL AND REMOTE LOOPBACK MODES
Germany	2775678	2016-05-09	EP14157829	2014-03-05	HIERARCHICAL RATE COLOR MARKER
Germany	2377278	2016-03-28	10701411	2011-07-14	PROGRESSIVE MAC ADDRESS LEARNING
Germany	2985959	2016-04-25	15180574.4	2015-08-11	LOSSLESS CONNECTION FAILOVER FOR MIRRORED DEVICES
Germany	2789136	2016-04-25	12855788.1	2012-12-05	LOSSLESS CONNECTION FAILOVER FOR MIRRORED DEVICES
			12855672.69999999		
Germany	2788888	2016-07-18	9	2012-12-05	SYSTEMS AND METHODS FOR RECONFIGURING A NETWORK ADAPTER IN SLEEP MODE
Germany	2464052	2016-08-08	9	2011-11-23	REMOTE PORT MIRRORING
Germany	2580894	2017-08-30	11727050.4	2012-12-29	REMOTE PORT MIRRORING
China	ZL201180030591.1	2015-12-16	201180030591.1	2011-06-06	USE OF SERVER INSTANCES AND PROCESSING ELEMENTS TO DEFINE A SERVER
US	7797288	2010-09-14	11/140,252	2005-05-27	

Country	Patent No.	Grant Date	Application Number	Filed Date	App Title
US	8010513	2011-08-30	12/790,489	2010-05-28	USE OF SERVER INSTANCES AND PROCESSING ELEMENTS TO DEFINE A SERVER
US	7806150	2009-10-20	11/430,132	2006-05-08	FIBRE CHANNEL SWITCH
US	8379658	2013-02-19	12/826,959	2010-08-30	DEFERRED QUEUING IN A BUFFERED SWITCH
US	6952208	2005-10-04	09/888,095	2001-06-22	METHOD FOR DISPLAYING SUPERSETS OF NODE GROUPS IN A NETWORK
US	8583780	2013-11-12	12/272,086	2008-11-17	DUPLICATE ADDRESS DISCOVERY AND ACTION
US	8295288	2012-10-23	12/340,228	2008-12-19	REGISTERED STATE CHANGE NOTIFICATION FOR A FIBRE CHANNEL NETWORK
US	8861350	2014-10-14	13/657,477	2012-10-22	FIBRE CHANNEL NETWORK EMPLOYING REGISTERED STATE CHANGE NOTIFICATION WITH ENHANCED PAYLOAD
US	10,033,650	2018-07-24	13/048,817	2011-03-15	PRESERVING QUALITY OF SERVICE ACROSS TRILL NETWORKS
US	9806949	2017-10-31	14/473,941	2014-08-29	TRANSPARENT INTERCONNECTION OF ETHERNET
US	9800471	2017-10-24	14/704,660	2015-05-05	FABRIC SWITCHES
US	10,044,568	2018-08-07	15/719,159	2015-05-05	VFAB EXTENSION SERVICE
US	9586028	2017-02-07	14/284,212	2017-10-13	NETWORK EXTENSION GROUPS OF GLOBAL VLANS IN A FABRIC SWITCH
US	7206314	2007-04-17	10/208,377	2014-05-21	INGRESS SWITCH MULTICAST DISTRIBUTION IN A FABRIC SWITCH
US	8009693	2011-08-30	11/683,517	2007-03-08	METHOD AND APPARATUS FOR TRANSPARENT COMMUNICATION BETWEEN A FIBRE CHANNEL NETWORK AND AN INFINIBAND NETWORK
US	9338060	2016-05-10	13/854,867	2013-07-30	METHOD AND APPARATUS FOR TRANSPARENT COMMUNICATION BETWEEN A FIBRE CHANNEL NETWORK AND AN INFINIBAND NETWORK
US	9397958	2016-07-19	14/206,946	2013-07-30	MULTIPLE RING IDENTIFICATION AND CONFIGURATION PROTOCOL
US	8645609	2014-02-25	13/035,841	2014-03-12	FCOE VN_PORT VIRTUALIZER
US	9185018	2015-11-10	13/179,308	2011-02-25	TWO PORT MEMORY IMPLEMENTED WITH SINGLE-PORT MEMORY BLOCKS
US	7120728	2006-10-10	10/209,694	2011-07-08	PATH DIAGNOSIS IN COMMUNICATION NETWORKS
US	8059664	2011-11-15	10/909,277	2002-07-31	HARDWARE-BASED TRANSLATING VIRTUALIZATION SWITCH
US	8311225	2012-11-13	12/542,662	2004-07-30	MULTIFABRIC GLOBAL HEADER
US	7236496	2007-06-26	10/208,378	2009-08-17	SCALABLE KEY ARCHIVAL
US	7443799	2008-10-28	10/699,568	2002-07-30	METHOD AND APPARATUS FOR MAPPING BETWEEN A FIBRE CHANNEL NETWORK AND AN INFINIBAND NETWORK
US	7593336	2009-09-22	10/699,567	2003-10-31	LOAD BALANCING IN CORE-EDGE ARRANGEMENTS
US	8427958	2013-04-23	12/771,943	2003-10-31	LOGICAL PORTS IN TRUNKING
US	9154394	2015-10-06	12/892,115	2010-04-30	DYNAMIC LATENCY-BASED REROUTING
US	8413018	2013-04-02	12/542,583	2010-09-28	DYNAMIC LATENCY-BASED REROUTING
Germany	2940952	2017-11-15	EP15165029.8	2009-08-17	SEPARATE MEMORIES AND ADDRESS BUSES TO STORE DATA AND SIGNATURE
Netherlands	2940952	2017-11-15	EP15165029.8	2015-04-24	VCS - OVS EDGE BRIDGE
US	9172560	2015-10-27	13/097,876	2015-04-24	VCS - OVS EDGE BRIDGE
Germany	602012016965.6	2016-04-13	12169687.6	2011-04-29	SINGLE VIRTUAL DOMAIN FIBRE CHANNEL OVER ETHERNET FABRIC
US	9379976	2016-06-28	14/206,879	2012-05-28	TWO PORT MEMORY IMPLEMENTED WITH SINGLE-PORT MEMORY BLOCKS
United Kingdom	2580894	2017-08-30	11727050.4	2014-03-12	FCOE VN_PORT TO FC N_PORT OPERATIONS IN AN ETHERNET FABRIC
France	2767980	2016-04-13	12169687.6	2012-12-29	REMOTE PORT MIRRORING
United Kingdom	2767980	2016-04-13	12169687.6	2012-05-28	TWO PORT MEMORY IMPLEMENTED WITH SINGLE-PORT MEMORY BLOCKS
Japan	5752243	2015-05-29	2013-514244	2012-05-28	TWO PORT MEMORY IMPLEMENTED WITH SINGLE-PORT MEMORY BLOCKS
US	7167472	2007-01-23	10/123,996	2013-04-04	REMOTE PORT MIRRORING
US	7103711	2006-09-05	10/347,645	2002-04-17	FIBRE CHANNEL ZONING BY DEVICE NAME IN HARDWARE
US	8891368	2014-11-18	12/614,268	2003-01-21	DATA LOGGING BY STORAGE AREA NETWORK DEVICES TO A RESERVED STORAGE AREA ON THE NETWORK
US	7076689	2006-07-11	10/282,952	2009-11-06	PRESENTATION OF A SELECTED PORT
US	8788878	2014-07-22	13/675,912	2002-10-29	USE OF A UNIQUE XID RANGE AMONG MULTIPLE CONTROL PROCESSORS
France	2567512	2016-04-13	11721162.30000000	2012-11-13	DATA MIGRATION WITHOUT INTERRUPTING HOST ACCESS
US	8885641	2014-11-11	13/365,993	2012-10-26	VIRTUAL CLUSTER SWITCHING
US	7088735	2006-08-08	10/071,969	2012-02-03	EFFICIENT TRILL FORWARD PROCESSING DATA PACKETS IN A MULTIPLE PROTOCOL SYSTEM AREA NETWORK
US	8848575	2014-09-30	12/390,626	2002-02-05	NETWORK
China	ZL201010114356.X	2015-05-06	CN201010114356.X	2009-02-23	HIGH AVAILABILITY AND MULTIPATHING FOR FIBRE CHANNEL OVER ETHERNET
China	201320123932.6	2014-02-26	201320123932.6	2010-02-23	HIGH AVAILABILITY AND MULTIPATHING FOR FIBRE CHANNEL OVER ETHERNET
US	8817666	2014-08-26	12/939,115	2013-03-18	COMPACT FLASH RETAINER
US	8780551	2014-07-15	13/363,306	2010-11-03	SYSTEM AND METHOD FOR MULTIPLE SPANNING TREE PROTOCOL DOMAINS IN A VIRTUAL LOCAL AREA NETWORK
US	8879549	2014-11-04	13/365,808	2012-01-31	BLADE AND AIR DEFLECTOR IN A PLENUM
US	7110394	2006-09-19	09/892,216	2012-02-03	CLEARING FORWARDING ENTRIES DYNAMICALLY AND ENSURING CONSISTENCY OF TABLES ACROSS VCS WITH VLAGS
US	7797634	2010-09-14	10/285,380	2001-08-25	PACKET SWITCHING APPARATUS INCLUDING CASCADE PORTS AND METHOD FOR SWITCHING PACKETS
US	8799645	2014-08-05	13/458,979	2002-10-31	METHOD AND APPARATUS FOR DISPLAYING NETWORK FABRIC DATA
US	8782182	2014-07-15	11/970,460	2012-04-27	SCALABLE DISTRIBUTED WEB-BASED AUTHENTICATION
US	7080179	2006-07-18	10/810,057	2008-01-07	GENERATING DEVICE-SPECIFIC CONFIGURATIONS
China	ZL 2010800070930	2016-09-14	201080007093	2004-03-26	MULTI-LEVEL INTERRUPTS
US	8885488	2014-11-11	12/950,974	2011-08-08	HIERARCHICAL RATE COLOR MARKER
				2010-11-19	REACHABILITY DETECTION IN TRILL NETWORKS

Country	Patent No.	Grant Date	Application Number	Filed Date	App Title
US	8792366	2014-07-29	12/916,060	2010-10-29	NETWORK PACKET LATENCY MEASUREMENT
US	8769155	2014-07-01	12/823,073	2010-06-24	TECHNIQUES FOR SYNCHRONIZING APPLICATION OBJECT INSTANCES
US	8862998	2014-10-14	11/748,646	2007-05-15	METHOD AND SYSTEM FOR GENERATING A NETWORK MONITORING DISPLAY WITH ANIMATED UTILIZATION INFORMATION
US	7773522	2010-08-10	10/873,430	2004-06-21	DEFERRED QUEUING IN A BUFFERED SWITCH
US	7146598	2006-12-05	10/298,007	2002-11-19	METHOD AND APPARATUS FOR CONFIGURING A PROGRAMMABLE LOGIC DEVICE
United Kingdom	1720294	2013-04-10	06119506.1	2002-01-07	METHOD FOR AGGREGATING A PLURALITY OF LINKS TO SIMULATE A UNITARY CONNECTION
United Kingdom	EP2285055	2012-05-23	10181742.699999999	2002-01-07	METHOD FOR AGGREGATING A PLURALITY OF LINKS TO SIMULATE A UNITARY CONNECTION
US	7752361	2010-07-06	10/695,408	2003-10-28	APPARATUS AND METHOD FOR DATA MIGRATION IN A STORAGE PROCESSING DEVICE
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Country	Patent No.	Grant Date	Application Number	Filed Date	App Title
US					SYSTEMS AND METHODS FOR CONTEXT BASED MULTIDIMENSIONAL NETWORK VISUALIZATION