

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4298059

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY AGREEMENT

CONVEYING PARTY DATA

Name	Execution Date
QLOGIC CORPORATION	02/28/2017

RECEIVING PARTY DATA

Name:	JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT
Street Address:	10 S. DEARBORN. FLOOR L-2
Internal Address:	CB COLLATERAL SERVICES
City:	CHICAGO
State/Country:	ILLINOIS
Postal Code:	60603

PROPERTY NUMBERS Total: 348

Property Type	Number
Application Number:	15363995
Application Number:	15169466
Application Number:	14969950
Application Number:	14864323
Application Number:	14805161
Application Number:	14830045
Application Number:	14919508
Application Number:	14698581
Application Number:	14632200
Application Number:	14667485
Application Number:	14663912
Application Number:	14716689
Application Number:	14548040
Application Number:	14530388
Application Number:	14193658
Application Number:	14724273
Application Number:	14597030
Application Number:	13902453
Application Number:	13906207

PATENT

Property Type	Number
Application Number:	13649391
Application Number:	13949089
Application Number:	14658544
Application Number:	13790894
Application Number:	13790800
Application Number:	14473524
Patent Number:	D520863
Patent Number:	9507524
Patent Number:	9483290
Patent Number:	9483207
Patent Number:	9477424
Patent Number:	9477414
Patent Number:	9465406
Patent Number:	9460017
Patent Number:	9454305
Patent Number:	9444713
Patent Number:	9436654
Patent Number:	9426097
Patent Number:	9426084
Patent Number:	9426063
Patent Number:	9424226
Patent Number:	9423980
Patent Number:	9411400
Patent Number:	9401879
Patent Number:	9396023
Patent Number:	9384113
Patent Number:	9384008
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Patent Number:	9350807
Patent Number:	9338059
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Patent Number:	9282000
Patent Number:	9281953

Property Type	Number
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Patent Number:	9225808
Patent Number:	9225672
Patent Number:	9223518
Patent Number:	9172661
Patent Number:	9172655
Patent Number:	9172602
Patent Number:	9172586
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Patent Number:	9164913
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Property Type	Number
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Patent Number:	6434630
Patent Number:	6327635
Patent Number:	6317842
Patent Number:	6229845
Patent Number:	6167321
Patent Number:	6163550
Patent Number:	6055285

CORRESPONDENCE DATA

Fax Number: (800)914-4240
Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 800-713-0755
Email: Michael.Violet@wolterskluwer.com
Correspondent Name: MICHAEL VIOLET
Address Line 1: 4400 EASTON COMMONS WAY
Address Line 2: SUITE 125
Address Line 4: COLUMBUS, OHIO 43219

NAME OF SUBMITTER:	ELAINE CARRERA
SIGNATURE:	/Elaine Carrera/
DATE SIGNED:	03/01/2017

Total Attachments: 21

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Patent Security Agreement

This **Patent Security Agreement** dated as of February 28, 2017 made by QLogic Corporation, a Delaware corporation, as pledgor (in such capacity and together with any successors in such capacity, the "Pledgor"), in favor of JPMORGAN CHASE BANK, N.A., in its capacity as Collateral Agent pursuant to the Credit Agreement (as defined in the Security Agreement), as pledgee, assignee and secured party (in such capacities and together with any successors in such capacities, the "Collateral Agent").

WITNESSETH:

WHEREAS, the Pledgor is party to a Security Agreement, dated as of August 16, 2016 (as amended, amended and restated, supplemented or otherwise modified from time to time in accordance with the provisions thereof, the "Security Agreement") made in favor of the Collateral Agent pursuant to which the Pledgor is required to execute and deliver this Patent Security Agreement;

NOW, THEREFORE, in consideration of the foregoing premises and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and to induce the Collateral Agent, for the benefit of the Secured Parties, to enter into the Credit Agreement, the Pledgor and the Collateral Agent hereby agree as follows:

SECTION 1. Defined Terms. Unless otherwise defined herein, terms defined in the Security Agreement and used herein have the meaning given to them in the Security Agreement.

SECTION 2. Grant of Security Interest in Patent Collateral. As collateral security for the payment and performance in full of all Secured Obligations, the Pledgor hereby pledges and grants to the Collateral Agent for the benefit of the Secured Parties, a lien on and security interest in all of the right, title and interest of the Pledgor in, to and under the following property, wherever located, and whether now existing or hereafter arising or acquired from time to time (collectively, the "Patent Collateral"):

(a) all patents and all patent applications (whether issued, allowed or filed in the United States or any other country or any trans-national patent registry) of the Pledgor now or hereafter, owned, filed or acquired by, or assigned to, the Pledgor, including the patents and patent applications listed on Schedule I attached hereto, together with any and all (i) rights and privileges arising under applicable law with respect to the foregoing and all rights corresponding thereto throughout the world, (ii) inventions, discoveries, designs and improvements described or claimed therein, (iii) reissues, divisions, continuations, reexaminations, extensions and continuations-in-part thereof and amendments thereto and (iv) rights to sue for past, present and future infringements thereof; and

(b) all Proceeds of any and all of the foregoing.

Notwithstanding anything to the contrary contained in clauses (a) and (b) above or otherwise set forth in this Patent Security Agreement, the security interest created by this Patent Security Agreement shall not extend to, and the term "Patent Collateral" shall not include, any Excluded Property.

SECTION 3. Security Agreement. The lien and security interest granted pursuant to this Patent Security Agreement is granted in conjunction with the lien and security interest granted to the Collateral Agent pursuant to the Security Agreement and the Pledgor hereby acknowledges and affirms that the rights and remedies of the Collateral Agent with respect to the security interest in the Patent Collateral made and granted hereby are more fully set forth in the Security Agreement, the terms and provisions of which are incorporated by reference herein as if fully set forth herein. In the event that any provision of this Patent Security Agreement is deemed to conflict with the Security Agreement, the provisions of the Security Agreement shall control unless the Collateral Agent shall otherwise determine.

SECTION 4. Termination. Upon the payment in full of the Secured Obligations and termination of the Security Agreement and at the other times required by Section 9.15 of the Credit Agreement, the Collateral Agent shall execute, acknowledge, and deliver to the Pledgor an instrument in writing in recordable form releasing the collateral pledge, grant, assignment, lien and security interest in the Patent Collateral under this Patent Security Agreement, all at the Pledgor's sole cost and expense.

SECTION 5. Counterparts. This Patent Security Agreement and any amendments, waivers, consents or supplements hereto may be executed in any number of counterparts and by different parties hereto in separate counterparts, each of which when so executed and delivered shall be deemed to be an original, but all such counterparts together shall constitute one and the same instrument. Delivery of any executed counterpart of a signature page of this Patent Security Agreement by facsimile or other electronic transmission shall be effective as delivery of a manually executed counterpart of this Patent Security Agreement.

SECTION 6. Governing Law; Consent to Jurisdiction and Service of Process; Waiver of Jury Trial. Sections 9.09 and 9.10 of the Credit Agreement are incorporated herein, mutatis mutandis, as if a part hereof.

[signature page follows]

IN WITNESS WHEREOF, the Pledgor and the Collateral Agent have caused this Patent Security Agreement to be duly executed and delivered by their duly authorized officers as of the date first above written.

QLOGIC CORPORATION,
as Pledgor

By: 
Name: Jonathan Belli
Title: Assistant Secretary

Accepted and Agreed:

JPMORGAN CHASE BANK, N.A.,
as Collateral Agent

By: _____
Name:
Title:

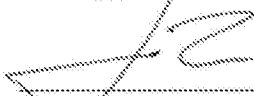
IN WITNESS WHEREOF, the Pledgor and the Collateral Agent have caused this Patent Security Agreement to be duly executed and delivered by their duly authorized officers as of the date first above written.

QLOGIC CORPORATION,
as Pledgor

By: _____
Name:
Title:

Accepted and Agreed:

JPMORGAN CHASE BANK, N.A.,
as Collateral Agent

By:  _____
Name: Timothy D. Lee
Title: Vice President

SCHEDULE I
to
PATENT SECURITY AGREEMENT
UNITED STATES PATENT REGISTRATIONS AND UNITED STATES PATENT
APPLICATIONS

United States Patent Registrations:

OWNER	REGISTRATION NUMBER	TITLE
Attached.		

United States Patent Applications:

OWNER	APPLICATION NUMBER	TITLE
Attached.		

QLOGIC PENDING US PATENT APPLICATIONS

Jan 31, 2017 1:00:52 AM

FILE #	TITLE	INVENTORS	FILING DATE	STATUS	SERIAL NUMBER
QN1542 US	METHODS AND SYSTEMS FOR MESSAGE LOGGING AND RETRIEVAL IN COMPUTER SYSTEMS	Lohith Anusuya Rangappa	Nov 29, 2016	Pending	15363995
QN1537 US	METHODS AND SYSTEMS FOR SECURING DATA STORED AT A STORAGE AREA NETWORK	Somnath Paul, Bruce A. Klemm, Muralidhar Jammula	May 31, 2016	Pending	15169466
QN1536 US	METHODS AND SYSTEMS FOR PROCESSING READ AND WRITE REQUESTS	Deepak Tawri, Vijay Thurpati	Dec 15, 2015	Pending	14969950
QN1533 US	SWITCHING METHODS AND SYSTEMS FOR A NETWORK INTERFACE CARD	Nir Goren	Sep 24, 2015	Pending	14864323
QN1530 US	METHODS AND SYSTEMS FOR USING SHARED LOGIC AT NETWORK DEVICES	Raul Oleyza	Jul 21, 2015	Allowed	14805161
QN1527 US	CACHING METHODS AND SYSTEMS USING A NETWORK INTERFACE CARD	Rafi Shalom, Nir Goren	Aug 19, 2015	Pending	14830045
QN1526 US	METHODS AND SYSTEMS FOR MANAGING ADDRESS LIST CONTROL BLOCKS	Dharma R. Konda, Paul R. Magsino	Oct 21, 2015	Pending	14919508
QN1524 US	METHODS AND SYSTEMS FOR NETWORK DEVICES AND ASSOCIATED NETWORK TRANSMISSIONS	Dharma R. Konda, Rajendra R. Gandhi, Ben K Hui, Bruce A. Klemm	Apr 28, 2015	Pending	14698581
QN1522 US	METHODS AND SYSTEMS FOR ACCESSING STORAGE USING A NETWORK INTERFACE CARD	Robert Lee Faulk	Feb 26, 2015	Allowed	14632200
QN1520 US	METHODS AND SYSTEMS FOR RELIABLE NETWORK COMMUNICATION	Nir Goren, Rafi Shalom, Kobby Carmona	Mar 24, 2015	Pending	14667485
QN1517 US	METHODS AND SYSTEMS FOR DEFINING STORAGE	Yogv Galon, Rafi Shalom, Amit Radzi	Mar 20, 2015	Pending	14663912
QN1516 US	SYSTEMS AND METHODS FOR EFFICIENT DATA TRANSMISSION IN A DATA CENTER	Robert Lee Faulk	May 19, 2015	Pending	14716689
QN1514 US	METHODS AND SYSTEMS FOR A MULTI-FUNCTION ADAPTER	Bruce A. Klemm, Raymond Chow, Dean Scoville	Nov 19, 2014	Pending	14548040
		Sudhir T. Ponnachana, Almer Singh, Ronald B. Gregory	Oct 31, 2014	Pending	14530388

QLOGIC PENDING US PATENT APPLICATIONS

FILE #	TITLE	INVENTORS	FILING DATE	STATUS	SERIAL NUMBER
QN1500 US	METHOD AND SYSTEM FOR PORT TRUNKING	Sanjaya Anand, Kathy K. Caballero	Feb 28, 2014	Allowed	14193658
QN1493 US	INTEGRATED FABRIC ADAPTER AND ASSOCIATED METHODS THEREOF	Abhilit Seal, Manoj Wadekar	May 28, 2015	Pending	14724273
QN1482 US	METHODS AND SYSTEMS FOR DIRECT MEMORY ACCESS OPERATIONS	Abhishek Mukherjee	Jan 14, 2015	Pending	14597030
QN1450 US	METHOD AND SYSTEM FOR TRANSMITTING INFORMATION FROM A NETWORK DEVICE	Manisha Sameer Gambhir-Parekh	May 24, 2013	Pending	13902453
QN1444 US	METHOD AND SYSTEM FOR PROCESSING WRITE REQUESTS	Ashwini Dyahadray, Deepak Tawri	May 30, 2013	Pending	13906207
QN1435 US	METHOD AND SYSTEM FOR COMMUNICATION BETWEEN A COMPUTING DEVICE AND A PERIPHERAL DEVICE	Rajendra R. Gandhi, Bradley S. Sonksen, Kuangfu D. Chu, Vi Chau	Oct 11, 2012	Pending	13649391
QN1422 US	MEMORY DEVICES AND ASSOCIATED METHODS THEREOF	Frank R. Dropps	Jul 23, 2013	Pending	13949089
QN1400-DIV1 US	NETWORK DEVICE SCHEDULER AND METHODS THEREOF	Frank R. Dropps, Gary M. Papentuss, Leo J. Seclita	Mar 16, 2015	Allowed	14658544
QN1388 08 US	INTELLIGENT ADAPTER AND METHODS THEREOF	Shishir Shah	Mar 8, 2013	Pending	13790894
QN1386 04 US	INTELLIGENT ADAPTERS AND METHODS THEREOF IN A CLUSTER	Shishir Shah, Normin A. Emralino, Sudhir T. Ponnachana	Mar 8, 2013	Pending	13790800
QN1383 US	METHOD AND SYSTEM FOR TRANSMITTING INFORMATION IN A NETWORK	Kanraj Sarcar	Aug 29, 2014	Pending	14473524

25 results displayed.

QLOGIC GRANTED US PATENTS

Jan 31, 2017

FILE NUMBER	PATENT NUMBER	TITLE	FILING DATE	SERIAL NUMBER	COUNTRY NAME	PATENT GRANT DATE	EXPIRY DATE	ADJUSTED EXPIRY DATE
QN1103.US	0520863	FIBER OPTIC CABLE RETENTION AND GLIDE CLIP	Jul 14, 2004	29209313	United States of America	May 16, 2006	Jul 14, 2018	Jul 14, 2018
QN1386.05.US	9507524	IN-BAND MANAGEMENT USING AN INTELLIGENT ADAPTER AND METHODS THEREOF	Mar 8, 2013	13780499	United States of America	Nov 29, 2016	Mar 8, 2033	Sep 24, 2033
QN1468.US	9483290	METHOD AND SYSTEM FOR VIRTUAL MACHINE COMMUNICATION	Apr 29, 2014	14264927	United States of America	Nov 1, 2016	Apr 29, 2034	Feb 14, 2035
QN1513.US	9483207	METHODS AND SYSTEMS FOR EFFICIENT CACHING USING AN INTELLIGENT STORAGE ADAPTER	Jan 9, 2015	14593898	United States of America	Nov 1, 2016	Jan 9, 2035	Jan 9, 2035
QN1462.US	9477424	METHODS AND SYSTEMS FOR USING AN INTELLIGENT STORAGE ADAPTER FOR REPLICATION IN A CLUSTERED ENVIRONMENT	Jul 23, 2014	14339086	United States of America	Oct 25, 2016	Jul 23, 2034	Feb 24, 2035
QN1506.US	9477414	METHODS AND SYSTEMS FOR IMPROVED CACHING WITH DATA RECOVERY	Aug 20, 2014	14484535	United States of America	Oct 25, 2016	Aug 20, 2034	Dec 28, 2034
QN1403.US	9465406	TIMERS AND METHODS THEREOF FOR COMPUTING DEVICES	Oct 30, 2013	14067815	United States of America	Oct 11, 2016	Oct 30, 2033	Sep 16, 2034
QN1509.US	9460017	METHODS AND SYSTEMS FOR EFFICIENT CACHE MIRRORING	Sep 26, 2014	14498580	United States of America	Oct 4, 2016	Sep 26, 2034	Nov 24, 2034
QN1488.US	9454305	METHOD AND SYSTEM FOR MANAGING STORAGE RESERVATION	Jan 27, 2014	14165100	United States of America	Sep 27, 2016	Jan 27, 2034	May 25, 2034
QN1395.US	9444713	CUT-THROUGH ROUTING FOR NETWORK DEVICES	Nov 15, 2012	13678986	United States of America	Sep 13, 2016	Nov 15, 2032	Aug 17, 2034
QN1487.US	9436654	METHODS AND SYSTEMS FOR PROCESSING TASK MANAGEMENT FUNCTIONS IN A CLUSTER HAVING AN INTELLIGENT STORAGE ADAPTER	Jun 23, 2014	14312130	United States of America	Sep 6, 2016	Jun 23, 2034	Nov 25, 2034
QN1370.US	9426097	FACILITATING COMMUNICATION BETWEEN DEVICES IN A NETWORK	Dec 9, 2010	12964235	United States of America	Aug 25, 2016	Dec 9, 2030	Feb 26, 2035
QN1521.US	9426084	METHODS AND SYSTEMS FOR CONTROLLING TRANSMISSION RATES IN NETWORKS	Jan 30, 2015	14609945	United States of America	Aug 23, 2016	Jan 30, 2035	May 17, 2035
QN1398.US	9426063	SYSTEMS AND METHODS FOR ROUTING BY NETWORK DEVICES	Nov 15, 2012	13678378	United States of America	Aug 23, 2016	Nov 15, 2032	Nov 5, 2034
QN1437.US	9424226	METHOD AND SYSTEM FOR SIGNAL EQUALIZATION IN COMMUNICATION BETWEEN COMPUTING DEVICES	Oct 24, 2013	14062418	United States of America	Aug 23, 2016	Oct 24, 2033	Nov 14, 2034
QN1502.US	9423980	METHODS AND SYSTEMS FOR AUTOMATICALLY ADDING INTELLIGENT STORAGE ADAPTERS TO A CLUSTER	Jun 12, 2014	14302706	United States of America	Aug 23, 2016	Jun 12, 2034	Aug 6, 2034
QN1424.US	9411400	METHODS AND SYSTEMS FOR MANAGING POWER FOR A RECEIVE BUFFER OF A NETWORK DEVICE PORT	Jul 23, 2013	13949095	United States of America	Aug 9, 2016	Jul 23, 2033	Jun 12, 2034
QN1377-CON1.US	9401879	SYSTEMS AND METHODS FOR SENDING AND RECEIVING INFORMATION VIA A NETWORK DEVICE	Jun 23, 2015	14747790	United States of America	Jul 26, 2016	Dec 16, 2031	Dec 16, 2031
QN1525.US	9396023	METHODS AND SYSTEMS FOR PARALLEL DISTRIBUTED COMPUTATION	Dec 30, 2014	14585761	United States of America	Jul 19, 2016	Dec 30, 2034	Dec 30, 2034
QN1432.US	9384113	SYSTEMS AND METHODS FOR IDENTIFYING PORT PROTOCOLS USING LEDs	Feb 8, 2013	13762715	United States of America	Jul 5, 2016	Feb 8, 2033	Jun 22, 2034
QN1463.US	9384008	METHOD AND SYSTEM FOR OPERATING SYSTEM RECOVERY FROM A NETWORK DEVICE INCLUDING USER SELECTABLE OPTIONS FOR STORING AN OS IMAGE IN LOCAL STORAGE OF A CACHING DEVICE	Mar 31, 2014	14230768	United States of America	Jul 5, 2016	Mar 31, 2034	Sep 19, 2034
QN1467.US	9378036	METHOD AND SYSTEM FOR COMMUNICATION IN A VIRTUAL MACHINE ENVIRONMENT	Jan 28, 2014	14166082	United States of America	Jun 25, 2016	Jan 28, 2034	Aug 1, 2034
QN1386.01.US	9350807	INTELLIGENT ADAPTER FOR PROVIDING STORAGE AREA NETWORK ACCESS AND ACCESS TO A LOCAL STORAGE DEVICE	Mar 8, 2013	13790395	United States of America	May 24, 2016	Mar 8, 2033	Jun 8, 2033

QN1389 US	9338059	SYSTEM AND METHODS FOR MANAGING NETWORKS	Jun 21, 2013	13924107	United States of America	May 10, 2016	Jun 21, 2033	Aug 15, 2034
QN1504 US	9330910	METHODS AND SYSTEMS FOR IMPROVED DATA CACHING IN A VIRTUALIZED ENVIRONMENT	Aug 27, 2014	14470337	United States of America	May 3, 2016	Aug 27, 2034	Dec 31, 2034
QN1386.02 US	9330003	INTELLIGENT ADAPTER FOR MAINTAINING CACHE COHERENCY	Mar 8, 2013	13790471	United States of America	May 3, 2016	Mar 8, 2033	Oct 26, 2033
QN1333 US	9329794	SYSTEM AND METHODS FOR DATA MIGRATION	Jan 21, 2010	12991629	United States of America	May 3, 2016	Jan 21, 2030	Aug 3, 2034
QN1438 US	9311268	METHOD AND SYSTEM FOR COMMUNICATION WITH PERIPHERAL DEVICES	Oct 21, 2013	14058887	United States of America	Apr 12, 2016	Oct 21, 2033	Dec 2, 2034
QN1484 US	9311021	METHODS AND SYSTEMS FOR PERFORMING A READ AHEAD OPERATION USING AN INTELLIGENT STORAGE ADAPTER	Aug 27, 2014	14470309	United States of America	Apr 12, 2016	Aug 27, 2034	Nov 29, 2034
QN1417 US	9282046	SMOOTHING FIFO AND METHODS THEREOF	Mar 14, 2013	13830717	United States of America	Mar 8, 2016	Mar 14, 2033	Jun 27, 2033
QN1394-DIV1 US	9282000	NETWORK DEVICES HAVING CONFIGURABLE RECEIVE PACKET QUEUES AND RELATED METHODS	Jun 25, 2015	14749964	United States of America	Mar 8, 2016	Nov 15, 2032	Nov 15, 2032
QN1477 US	9281953	SYSTEMS AND METHODS FOR ROUTING MULTICAST PACKETS	Sep 23, 2013	14034200	United States of America	Mar 8, 2016	Sep 23, 2033	Jun 25, 2034
QN1478 US	9284353	SYSTEMS AND METHODS FOR QUALITY OF SERVICE FOR LINK AGGREGATION GROUPS	Sep 30, 2013	14042111	United States of America	Feb 16, 2016	Sep 30, 2033	Jan 3, 2034
QN1390 US	9256562	METHOD AND SYSTEM FOR COMMUNICATION BETWEEN A COMPUTING SYSTEM AND A DEVICE	Oct 4, 2012	13644535	United States of America	Feb 9, 2016	Oct 4, 2032	Jul 18, 2034
QN1458 US	9256491	METHOD AND SYSTEM FOR DATA INTEGRITY	Sep 23, 2013	14034006	United States of America	Feb 9, 2016	Sep 23, 2033	Nov 29, 2033
QN1439 US	9253120	SYSTEMS AND METHODS FOR HIGH SPEED DATA PROCESSING AT A NETWORK PORT	Oct 10, 2013	14051293	United States of America	Feb 2, 2016	Oct 10, 2033	May 8, 2034
QN1386.05 US	9232005	METHODS AND SYSTEMS FOR AN INTELLIGENT STORAGE ADAPTER USED FOR BOTH SAN AND LOCAL STORAGE ACCESS	Mar 8, 2013	13730846	United States of America	Jan 5, 2016	Mar 8, 2033	Nov 2, 2033
QN1471 US	9229893	SYSTEMS AND METHODS FOR MANAGING DIRECT MEMORY ACCESS OPERATIONS	Apr 29, 2014	14264957	United States of America	Jan 5, 2016	Apr 29, 2034	Apr 29, 2034
QN1391 US	9229791	SYSTEM AND METHOD FOR HIGH SPEED MULTIPLE BUFFER ALLOCATION	Aug 24, 2012	13594343	United States of America	Jan 5, 2016	Aug 24, 2032	Jul 4, 2034
QN1412 US	9225808	SYSTEMS AND METHODS FOR PROCESSING INFORMATION BY A NETWORK DEVICE	Nov 15, 2012	13678121	United States of America	Dec 29, 2015	Nov 15, 2032	Jun 2, 2034
QN1399 US	9225672	SYSTEMS AND METHODS FOR PACKET GROUPING IN NETWORKS	Nov 15, 2012	13678385	United States of America	Dec 29, 2015	Nov 15, 2032	Sep 23, 2033
QN1489 US	9223518	METHOD AND SYSTEM FOR REMOTE CACHE DIRECT DATA PLACEMENT	Nov 22, 2013	14088082	United States of America	Dec 29, 2015	Nov 22, 2033	Jul 24, 2034
QN1419 US	9172661	METHOD AND SYSTEM FOR USING LANE ALIGNMENT MARKERS	Nov 15, 2012	13678406	United States of America	Oct 27, 2015	Nov 15, 2032	Jul 13, 2033
QN1397 US	9172655	SYSTEMS AND METHODS FOR QUALITY OF SERVICE IN NETWORKS	Nov 15, 2012	13678135	United States of America	Oct 27, 2015	Nov 15, 2032	Apr 12, 2033
QN1422 US	9172602	METHOD AND SYSTEM FOR AUTO-NEGOTIATION	Nov 15, 2012	13678418	United States of America	Oct 27, 2015	Nov 15, 2032	Dec 13, 2033
QN1447 US	9172586	METHOD AND SYSTEM FOR WRITING TAG AND DATA	May 24, 2013	13902427	United States of America	Oct 27, 2015	May 24, 2033	Dec 25, 2033
QN1456 US	9170880	METHOD AND SYSTEM FOR DATA INTEGRITY IN TCAMS	Oct 8, 2013	14048849	United States of America	Oct 27, 2015	Oct 8, 2033	Jan 10, 2034
QN1436 US	9164947	METHOD AND SYSTEM FOR INSERTING COOKIES IN I/O COMMANDS	Mar 1, 2013	13782673	United States of America	Oct 20, 2015	Mar 1, 2033	Mar 5, 2034
QN1385 US	9164913	METHOD AND SYSTEM FOR OFFLOADING COPY ON WRITE OPERATIONS	Apr 16, 2012	13447521	United States of America	Oct 20, 2015	Apr 16, 2032	Jun 20, 2033

QN1475.US	9154567	METHOD AND SYSTEM FOR BUFFER MANAGEMENT	Aug 16, 2013	13969084	United States of America	Oct 6, 2015	Aug 16, 2033	Apr 19, 2034
QN1473.US	9154455	METHOD AND SYSTEM FOR DETERMINING DROP ELIGIBILITY OF NETWORK INFORMATION	Aug 30, 2013	14014803	United States of America	Oct 6, 2015	Aug 30, 2033	Dec 14, 2033
QN1448.US	9143415	METHOD AND SYSTEM FOR DETECTING LOSS OF SYNCHRONIZATION IN PORTS	Mar 28, 2013	13852872	United States of America	Sep 22, 2015	Mar 28, 2033	Jul 17, 2033
QN1489.US	9118610	NETWORK INFORMATION PROCESSING AND METHODS THEREOF	Aug 5, 2013	13959232	United States of America	Aug 25, 2015	Aug 5, 2033	Nov 23, 2033
QN1066A-CON1.US	9118586	MULTI-SPEED CUT THROUGH OPERATION IN FIBRE CHANNEL SWITCHES	Jul 18, 2009	12502873	United States of America	Aug 25, 2015	Jul 20, 2024	Dec 30, 2027
QN1449.US	9109334	METHOD AND SYSTEM FOR VARIABLE LENGTH TAG PROCESSING	Mar 28, 2013	13852885	United States of America	Aug 4, 2015	Mar 28, 2033	Aug 21, 2033
QN1314.US	9094343	METHOD AND SYSTEM FOR TAKING A NETWORK PORT OFFLINE	Mar 26, 2009	12412050	United States of America	Jul 28, 2015	Mar 26, 2029	Apr 27, 2033
QN1377.US	9094933	SYSTEMS AND METHODS FOR SENDING AND RECEIVING INFORMATION VIA A NETWORK DEVICE	Dec 16, 2011	13328919	United States of America	Jul 28, 2015	Dec 16, 2031	May 16, 2033
QN1420.US	9094294	METHODS AND SYSTEMS FOR AN OUT-OF-CREDIT TIMER IN A NETWORK DEVICE	Nov 15, 2012	13678411	United States of America	Jul 28, 2015	Nov 15, 2032	Oct 18, 2033
QN1394.US	9071559	NETWORK DEVICES HAVING CONFIGURABLE RECEIVE PACKET QUEUES AND RELATED METHODS	Nov 15, 2012	13678367	United States of America	Jun 30, 2015	Nov 15, 2032	Aug 27, 2033
QN1318-CON1.US	9071558	METHOD AND SYSTEM FOR EXTENDED PORT ADDRESSING	Dec 11, 2012	13711380	United States of America	Jun 30, 2015	Mar 24, 2030	Feb 15, 2031
QN1379.US	9071544	METHOD AND SYSTEM FOR MANAGING NETWORK ELEMENTS	Jul 28, 2011	13193462	United States of America	Jun 30, 2015	Jul 28, 2031	Apr 7, 2033
QN1405.US	9069919	METHOD AND SYSTEM FOR ARBITRATION VERIFICATION	Oct 17, 2012	13854308	United States of America	Jun 30, 2015	Oct 17, 2032	Sep 3, 2033
QN1418.US	9049113	SYSTEMS AND METHODS FOR PRIMITIVE SEQUENCE CAPTURE AND RETRANSMISSION IN A NETWORK DEVICE	Nov 15, 2012	13678397	United States of America	Jun 2, 2015	Nov 15, 2032	Apr 6, 2033
QN1440.US	9047208	METHOD AND SYSTEM OF CONFIGURING VIRTUAL FUNCTION IN PERIPHERAL DEVICES	Dec 9, 2013	14109856	United States of America	Jun 2, 2015	Dec 9, 2033	Dec 9, 2033
QN1409.US	9047151	METHODS AND SYSTEMS FOR PROCESSING COMMANDS BY A DEVICE INTERFACING WITH A COMPUTING SYSTEM	Nov 29, 2012	13689607	United States of America	Jun 2, 2015	Nov 29, 2032	Jul 12, 2033
QN1414.US	9046941	SYSTEM AND METHOD FOR SHARING LOGIC IN A NETWORK DEVICE	Nov 15, 2012	13678398	United States of America	Jun 2, 2015	Nov 15, 2032	Aug 10, 2033
QN1320-CON1.US	9043519	SYSTEM AND METHOD TO PROCESS EVENT REPORTING IN AN ADAPTER	Apr 4, 2013	13856848	United States of America	May 26, 2015	Oct 2, 2029	Mar 6, 2030
QN1347-CON1.US	9009038	SYSTEMS AND METHODS FOR BANDWIDTH SCAVENGING AMONG A PLURALITY OF APPLICATIONS IN A NETWORK	Oct 3, 2012	13644203	United States of America	Apr 7, 2015	Apr 13, 2030	Jan 27, 2031
QN1402.US	8996798	SYSTEMS AND METHODS FOR USING TCAMS IN NETWORK DEVICES	Nov 15, 2012	13678377	United States of America	Mar 31, 2015	Nov 15, 2032	Jul 13, 2033
QN1326-CON1.US	8996730	SYSTEM AND METHOD TO RESTORE MAXIMUM PAYLOAD SIZE IN A NETWORK ADAPTER	Apr 16, 2012	13447652	United States of America	Mar 31, 2015	Jun 17, 2030	Nov 1, 2031
QN1413.US	8995457	SYSTEMS AND METHODS FOR MODIFYING FRAMES IN A NETWORK DEVICE	Nov 15, 2012	13678161	United States of America	Mar 31, 2015	Nov 15, 2032	Jun 13, 2033
QN1396.US	8995455	MEMORY DEVICES FOR NETWORK DEVICES AND ASSOCIATED METHODS	Nov 15, 2012	13678108	United States of America	Mar 31, 2015	Nov 15, 2032	Jun 28, 2033
QN1400.US	8995425	NETWORK DEVICE SCHEDULER AND METHODS THEREOF	Nov 15, 2012	13678047	United States of America	Mar 31, 2015	Nov 15, 2032	May 7, 2033
QN1393.US	8989191	SYSTEMS AND METHODS FOR HARD ZONING IN NETWORKS	Nov 15, 2012	13678005	United States of America	Mar 24, 2015	Nov 15, 2032	Oct 23, 2033
QN1308.US	8978052	SYSTEM AND METHODS FOR INTER-DRIVER COMMUNICATION	Aug 31, 2009	12551302	United States of America	Mar 10, 2015	Aug 31, 2029	Nov 28, 2032

QN1441.US	8977786	METHOD AND SYSTEM FOR PROCESSING INFORMATION AT PERIPHERAL DEVICES	Jul 30, 2013	13954661	United States of America	Mar 10, 2015	Jul 30, 2033	Jul 30, 2033
QN1294-CON1.US	8976800	CONFIGURABLE SWITCH ELEMENT AND METHODS THEREOF	Feb 4, 2013	13738543	United States of America	Mar 10, 2015	Aug 11, 2029	Jan 26, 2030
QN1421.US	8976667	METHOD AND SYSTEM FOR PROGRAMMABLE DELAY BEFORE TRANSMISSION PAUSING	Nov 15, 2012	13678145	United States of America	Mar 10, 2015	Nov 15, 2032	Oct 3, 2033
QN1446.US	8953608	METHOD AND SYSTEM FOR FRAME AGGREGATION	Mar 15, 2013	13834838	United States of America	Feb 10, 2015	Mar 15, 2033	Sep 5, 2033
QN1382.US	8953606	FLEXIBLE EDGE ACCESS SWITCH AND ASSOCIATED METHODS THEREOF	Mar 28, 2012	13633146	United States of America	Feb 10, 2015	Mar 28, 2032	Aug 24, 2033
QN1410.US	8948203	METHOD AND SYSTEM FOR USING ASYMMETRIC TRANSFER RATES IN RECEIVE AND TRANSMIT PATHS OF A NETWORK	Jan 31, 2013	13755770	United States of America	Feb 3, 2015	Jan 31, 2033	Apr 15, 2033
QN1401.US	8924764	SYSTEMS AND METHODS FOR RATE MATCHING IN NETWORKS UTILIZING A STROBE COUNTER	Nov 15, 2012	13678100	United States of America	Dec 30, 2014	Nov 15, 2032	Aug 7, 2033
QN1380-CON1.US	8918593	METHOD AND SYSTEM FOR MEMORY MANAGEMENT	Sep 25, 2012	14036920	United States of America	Dec 23, 2014	Sep 21, 2031	Sep 21, 2031
QN1240.US	8904077	POWER MANAGEMENT FOR HOST BUS ADAPTERS	Apr 28, 2008	12111057	United States of America	Dec 2, 2014	Apr 28, 2028	May 7, 2032
QN1465.US	8898346	METHOD AND SYSTEM FOR CONFIGURING NETWORK DEVICES	Jun 20, 2013	13922911	United States of America	Nov 25, 2014	Jun 20, 2033	Jul 16, 2033
QN1384.US	8893366	TOOLS, SYSTEMS, AND METHODS FOR REMOVING CONNECTORS FROM PORTS IN A NETWORK DEVICE	Feb 23, 2012	13403637	United States of America	Nov 23, 2014	Feb 23, 2032	Jun 20, 2032
QN1366.US	8880732	METHOD AND SYSTEM FOR APPLICATION ISOLATION	Feb 25, 2011	13035114	United States of America	Nov 4, 2014	Feb 25, 2031	Aug 13, 2032
QN1295-CON1.US	8873546	METHOD AND SYSTEM FOR NETWORK SWITCH ELEMENT	Oct 13, 2011	13273008	United States of America	Oct 28, 2014	Sep 9, 2029	Jan 24, 2031
QN1324-CON1.US	8873430	SYSTEM AND METHODS FOR PRESENTING STORAGE	Feb 19, 2013	13770828	United States of America	Oct 26, 2014	Mar 23, 2030	May 23, 2030
QN1383.US	8873236	ELECTRONIC DEVICE HAVING COOLING MODULE WITH DIRECTION-CONFIGURABLE AIRFLOW	Feb 15, 2012	13397902	United States of America	Oct 28, 2014	Feb 15, 2032	Feb 27, 2033
QN1263-CON1.US	8867937	METHOD AND SYSTEM FOR PROCESSING NETWORK PACKETS	Sep 11, 2012	13610095	United States of America	Oct 21, 2014	Jun 22, 2029	Sep 1, 2029
QN1378.US	8798047	METHODS AND SYSTEMS FOR PROCESSING NETWORK INFORMATION	Aug 29, 2011	13220243	United States of America	Aug 5, 2014	Aug 29, 2031	Jun 24, 2032
QN1304.US	8793399	METHOD AND SYSTEM FOR ACCELERATING NETWORK PACKET PROCESSING	Aug 5, 2009	12536336	United States of America	Jul 29, 2014	Aug 5, 2029	Jun 17, 2031
QN1247-CON1.US	8792351	METHOD AND SYSTEM FOR NETWORK COMMUNICATION	Dec 19, 2011	13350085	United States of America	Jul 29, 2014	Jun 13, 2027	Aug 2, 2028
QN1129-CON1.US	8774206	HIGH SPEED FIBER CHANNEL SWITCH ELEMENT	Sep 5, 2012	13604261	United States of America	Jul 8, 2014	Oct 1, 2024	Nov 12, 2024
QN1327.US	8706905	METHOD AND SYSTEM FOR ROUTING INFORMATION IN A NETWORK	Aug 19, 2010	12859690	United States of America	Apr 22, 2014	Aug 19, 2030	Aug 1, 2031
QN1323.US	8705951	METHOD AND SYSTEM FOR LOAD BALANCING IN NETWORKS	May 5, 2010	12774574	United States of America	Apr 22, 2014	May 5, 2030	May 20, 2031
QN1173.US	8682799	METHOD AND SYSTEM FOR PORT LICENSING IN SWITCHES	Dec 23, 2005	11318116	United States of America	Mar 25, 2014	Dec 23, 2025	Oct 28, 2030
QN1371.US	8682632	SIMULATION SYSTEM AND METHOD THEREOF	Feb 16, 2011	13029012	United States of America	Mar 25, 2014	Feb 16, 2031	Nov 19, 2031
QN1445.US	8677044	METHOD AND SYSTEM FOR COMMUNICATION USING MULTIPLE DMA CHANNELS	Oct 25, 2012	13660928	United States of America	Mar 18, 2014	Oct 25, 2032	Oct 25, 2032
QN1231-CON1.US	8676928	METHOD AND SYSTEM FOR WRITING NETWORK DATA	Sep 22, 2011	13241012	United States of America	Mar 18, 2014	Oct 31, 2026	Jan 28, 2027

QN1331.US	8671228	SYSTEM AND METHODS FOR MANAGING VIRTUAL ADAPTER INSTANCES	Oct 2, 2009	12572810	United States of America	Mar 11, 2014	Oct 2, 2029	Jul 5, 2030
QN1086-COIN1-DIV1.US	8644317	METHOD AND SYSTEM FOR USING EXTENDED FABRIC FEATURES WITH FABRIC CHANNEL SWITCH ELEMENTS	Jul 6, 2011	13177314	United States of America	Feb 4, 2014	Jul 20, 2024	May 7, 2025
QN1288.US	8619558	MEMORY MANAGEMENT IN A NETWORK ADAPTER	Jul 21, 2008	12176755	United States of America	Dec 31, 2013	Jul 21, 2028	Dec 15, 2029
QN1225.US	8601179	METHOD AND SYSTEM FOR DATA TRANSFER	Oct 31, 2008	11555123	United States of America	Dec 3, 2013	Oct 31, 2028	Jul 12, 2030
QN1300.US	8572328	METHOD AND SYSTEM FOR MEMORY MANAGEMENT	Sep 21, 2011	13238485	United States of America	Oct 29, 2013	Sep 21, 2031	Feb 10, 2032
QN1369.US	8566573	SELECTABLE INITIALIZATION FOR ADAPTERS	Nov 8, 2010	12841621	United States of America	Oct 22, 2013	Nov 8, 2030	Nov 13, 2031
UNM-105.1	8552260	DIRECT HARDWARE PROCESSING OF INTERNAL DATA STRUCTURE FIELDS	Dec 3, 2007	11949755	United States of America	Oct 8, 2013	May 17, 2024	Sep 20, 2028
QN1365.US	8510527	SYSTEM AND METHODS FOR MIGRATING INFORMATION FROM SOURCE STORAGE TO DESTINATION STORAGE	Oct 8, 2010	12901409	United States of America	Aug 13, 2013	Oct 8, 2030	Nov 18, 2031
QN1320.US	8504750	SYSTEM AND METHOD TO PROCESS EVENT REPORTING IN AN ADAPTER	Oct 2, 2009	12572835	United States of America	Aug 6, 2013	Oct 2, 2029	Aug 17, 2031
QN1375.US	8488601	METHOD AND SYSTEM FOR LINK AGGREGATION	Jul 12, 2011	13181270	United States of America	Jul 16, 2013	Jul 12, 2031	Nov 27, 2031
QN1354.US	8478909	METHOD AND SYSTEM FOR COMMUNICATION ACROSS MULTIPLE CHANNELS	Oct 28, 2010	12914852	United States of America	Jul 2, 2013	Oct 28, 2030	Nov 9, 2030
QN1374.US	8467395	METHOD AND SYSTEM FOR LINK AGGREGATION	Jul 12, 2011	13181251	United States of America	Jun 18, 2013	Jul 12, 2031	Dec 6, 2031
QN1180.US	8464238	Method and System for Managing Storage Area Networks	Jan 31, 2006	11343596	United States of America	Jun 11, 2013	Jan 31, 2026	Feb 27, 2031
QN1253-COIN1.US	8441929	METHOD AND SYSTEM FOR MONITORING A NETWORK LINK IN NETWORK SYSTEMS	Feb 11, 2011	13026097	United States of America	May 14, 2013	Sep 28, 2027	Mar 26, 2028
QN1372.US	8441922	METHOD AND SYSTEM FOR CONGESTION MANAGEMENT IN NETWORKS	Aug 24, 2011	13216598	United States of America	May 14, 2013	Aug 24, 2031	Jan 19, 2032
QN1235.US	8411677	METHOD AND SYSTEM FOR PROCESSING LAYERED NETWORKING PROTOCOL PACKETS	Aug 21, 2007	11842830	United States of America	Apr 2, 2013	Aug 21, 2027	Oct 3, 2030
QN1324.US	8408152	SYSTEM AND METHODS FOR PRESENTING STORAGE	Mar 23, 2010	12730139	United States of America	Mar 26, 2013	Mar 23, 2030	Dec 12, 2030
QN1351-COIN1.US	8392629	SYSTEM AND METHODS FOR USING A DMA MODULE FOR A PLURALITY OF VIRTUAL MACHINES	Jun 5, 2012	13489016	United States of America	Mar 5, 2013	Jun 29, 2030	Jun 29, 2030
QN1294.US	8391900	CONFIGURABLE SWITCH ELEMENT AND METHODS THEREOF	Aug 11, 2009	12539156	United States of America	Mar 5, 2013	Aug 11, 2029	Jan 4, 2032
QN1243.US	8387073	METHOD AND SYSTEM FOR PROCESSING NETWORK PACKETS	Apr 30, 2007	11742282	United States of America	Feb 26, 2013	Apr 30, 2027	Apr 28, 2031
QN1310.US	8386644	SYSTEM AND METHODS FOR EFFICIENTLY PROCESSING LARGE DATA SEGMENTS	Oct 11, 2010	12901994	United States of America	Feb 26, 2013	Oct 11, 2030	Nov 9, 2031
QN1318.US	8351448	METHOD AND SYSTEM FOR EXTENDED PORT ADDRESSING	Mar 24, 2010	12731065	United States of America	Jan 8, 2013	Mar 24, 2030	Jan 4, 2031
QN1298.US	8351442	METHOD AND SYSTEM FOR NETWORK COMMUNICATION	Jul 17, 2009	12505430	United States of America	Jan 8, 2013	Jul 17, 2029	Mar 24, 2030
QN1343.US	8315268	METHOD AND SYSTEM FOR COMMUNICATION WITH AN ADAPTER	Jun 7, 2010	12795563	United States of America	Nov 20, 2012	Jun 7, 2030	Aug 10, 2031
QN1347.US	8307111	SYSTEMS AND METHODS FOR BANDWIDTH SCAVENGING AMONG A PLURALITY OF APPLICATIONS IN A NETWORK	Apr 13, 2010	12759316	United States of America	Nov 6, 2012	Apr 13, 2030	Jan 28, 2031
QN1349.US	8301817	RING BUS FOR SHARING RESOURCES AMONG MULTIPLE ENGINES	Oct 11, 2010	12902020	United States of America	Oct 30, 2012	Oct 11, 2030	Jul 25, 2031

QN1263.US	8296386	METHOD AND SYSTEM FOR PROCESSING NETWORK PACKETS	Jun 22, 2009	12489241	United States of America	Oct 23, 2012	Jun 22, 2029	Nov 26, 2030
QN1129.US	8295299	HIGH SPEED FIBER CHANNEL SWITCH ELEMENT	Oct 1, 2008	10956501	United States of America	Oct 23, 2012	Oct 1, 2024	Dec 24, 2027
QN1334-CON1.US	8275903	CONCURRENT TRANSMIT PROCESSING	May 19, 2011	13111475	United States of America	Sep 25, 2012	Dec 31, 2029	Dec 31, 2029
QN1256-CON1.US	8261099	METHOD AND SYSTEM FOR SECURING NETWORK DATA	Jul 25, 2011	13190165	United States of America	Sep 4, 2012	Dec 27, 2027	Dec 27, 2027
QN1351.US	8250252	SYSTEM AND METHODS FOR USING A DMA MODULE FOR A PLURALITY OF VIRTUAL MACHINES	Jun 29, 2010	12826105	United States of America	Aug 21, 2012	Jun 29, 2030	Oct 17, 2030
QN1178.US	8250203	METHOD AND SYSTEM FOR NETWORK TRAFFIC MONITORING	May 22, 2007	11752212	United States of America	Aug 21, 2012	May 22, 2027	Feb 7, 2030
QN1307-DIV1.US	8225018	SYSTEM AND METHOD FOR MAPPING FUNCTIONS TO AND FROM NETWORK DEVICES USING CONFIGURATION COMPATIBLE WITH AN ADAPTER BY REMAPPING PLURALITY OF LOGICAL PORTS OF ADAPTER	Aug 30, 2011	13221737	United States of America	Jul 17, 2012	Dec 12, 2029	Dec 12, 2029
QN1257-CON1.US	8225004	METHOD AND SYSTEM FOR PROCESSING NETWORK AND STORAGE DATA	Mar 31, 2010	12751955	United States of America	Jul 17, 2012	Jul 28, 2028	Mar 22, 2029
QN1305.US	8200473	EMULATION OF MULTIPLE MIDI MANAGEABLE DEVICES	Aug 25, 2009	12547414	United States of America	Jun 12, 2012	Aug 25, 2029	Oct 8, 2030
QN1215.US	8185960	SYSTEM AND METHOD FOR MANAGING ACCESS TO ADAPTER FEATURES	Jul 27, 2006	11499978	United States of America	May 22, 2012	Jul 27, 2026	May 16, 2029
QN1298.US	8185715	METHOD AND SYSTEM FOR MANAGING METADATA IN STORAGE VIRTUALIZATION ENVIRONMENT	Mar 30, 2007	11694698	United States of America	May 22, 2012	Mar 30, 2027	Jan 8, 2029
QN1326.US	8185664	SYSTEM AND METHOD TO RESTORE MAXIMUM PAYLOAD SIZE IN A NETWORK ADAPTER	Jun 17, 2010	12817707	United States of America	May 22, 2012	Jun 17, 2030	Oct 14, 2030
QN1321.US	8155022	METHOD AND SYSTEM FOR CONTROLLING POWER CONSUMPTION IN NETWORK NODES	Sep 1, 2009	12552222	United States of America	Apr 10, 2012	Sep 1, 2029	Jun 4, 2030
QN1303.US	8116311	METHOD AND SYSTEM FOR TAG ARBITRATION IN SWITCHES	Nov 9, 2009	12615152	United States of America	Feb 14, 2012	Nov 9, 2029	Nov 5, 2030
QN1252.US	8116206	METHOD AND SYSTEM FOR ROUTING FRAMES IN A NETWORK	Feb 26, 2008	12037847	United States of America	Feb 14, 2012	Feb 26, 2028	May 28, 2028
QN1247.US	8102769	METHOD AND SYSTEM FOR NETWORK COMMUNICATION	Jun 13, 2007	11762578	United States of America	Jan 24, 2012	Jun 13, 2027	Jun 12, 2028
QN1246.US	8095378	METHOD AND SYSTEM FOR MANAGING PORTS IN A HOST BUS ADAPTER	Jun 11, 2007	11761279	United States of America	Jan 10, 2012	Jun 11, 2027	Jan 21, 2030
QN1309.US	8089971	METHOD AND SYSTEM FOR TRANSMITTING FLOW CONTROL INFORMATION	Apr 14, 2009	12423626	United States of America	Jan 3, 2012	Apr 14, 2029	Oct 27, 2029
QN1058-DIV1.US	8081650	METHOD AND SYSTEM FOR SELECTING VIRTUAL LANES IN FIBRE CHANNEL SWITCHES	Apr 22, 2009	12427966	United States of America	Dec 20, 2011	Jul 20, 2024	Mar 10, 2025
QN1073-CON1.US	8072988	METHOD AND SYSTEM FOR BUFFER TO BUFFER CREDIT RECOVERY IN FIBRE CHANNEL SYSTEMS USING VIRTUAL AND/OR PSEUDO VIRTUAL LANES	Oct 15, 2009	12580169	United States of America	Dec 6, 2011	Jul 20, 2024	Aug 31, 2024
UNNA-0891	8069293	FLEXIBLE SERVER NETWORK CONNECTION UPGRADE SYSTEMS AND METHODS	May 22, 2009	12471331	United States of America	Nov 29, 2011	May 22, 2029	Apr 15, 2030
QN1295.US	8068482	METHOD AND SYSTEM FOR NETWORK SWITCH ELEMENT	Sep 9, 2009	12556064	United States of America	Nov 29, 2011	Sep 9, 2029	Jul 14, 2030
QN1285.US	8068338	NETWORK DEVICE WITH BAFFLE FOR REDIRECTING COOLING AIR AND ASSOCIATED METHODS	Mar 24, 2009	12410277	United States of America	Nov 29, 2011	Mar 24, 2029	Nov 10, 2029
QN1307.US	8065454	SYSTEM AND METHOD FOR MAPPING FUNCTIONS TO AND FROM NETWORK DEVICES USING CONFIGURATION COMPATIBLE WITH AN ADAPTER BY REMAPPING PLURALITY OF LOGICAL PORTS OF ADAPTER	Aug 20, 2009	12544558	United States of America	Nov 21, 2011	Aug 20, 2029	Dec 12, 2029
QN1286.US	8060682	METHOD AND SYSTEM FOR MULTI-LEVEL SWITCH CONFIGURATION	Mar 31, 2009	12415873	United States of America	Nov 15, 2011	Mar 31, 2029	Mar 23, 2030
QN1231.US	8055726	METHOD AND SYSTEM FOR WRITING NETWORK DATA	Oct 31, 2006	11555180	United States of America	Nov 8, 2011	Oct 31, 2026	May 19, 2029

QN1256.US	8019809	METHOD AND SYSTEM FOR SECURING NETWORK DATA	Dec 27, 2007	11965037	United States of America	Aug 30, 2011	Dec 27, 2027	Jun 28, 2030
QN1096-CON1.US	8008105	METHOD AND SYSTEM FOR CONFIGURING FIBRE CHANNEL PORTS	May 27, 2009	12473150	United States of America	Aug 23, 2011	Jul 20, 2024	Dec 27, 2024
QN1208.US	8004991	METHOD AND SYSTEM FOR PROCESSING NETWORK INFORMATION	Oct 11, 2006	11548421	United States of America	Aug 23, 2011	Oct 11, 2026	Sep 20, 2027
QN1088-CON1.US	7990975	METHOD AND SYSTEM FOR USING EXTENDED FABRIC FEATURES WITH FABRIC CHANNEL SWITCH ELEMENTS	Feb 1, 2010	12697998	United States of America	Aug 2, 2011	Jul 20, 2024	Jul 26, 2024
130.057US1	7978695	HARDWARE-ENFORCED LOOP AND NPV HARD ZONING FOR FIBRE CHANNEL SWITCH FABRIC	Sep 20, 2007	11858684	United States of America	Jul 12, 2011	Jun 5, 2021	Oct 4, 2022
QN1334.US	7970927	CONCURRENT TRANSMIT PROCESSING	Dec 31, 2009	12651270	United States of America	Jun 28, 2011	Dec 31, 2029	Mar 18, 2030
QN1241.US	7962675	METHOD AND SYSTEM FOR COMMUNICATING WITH A HOST BUS ADAPTER	Feb 21, 2008	12034913	United States of America	Jun 14, 2011	Feb 21, 2028	Jul 17, 2028
QN1066C-CON.US	7936771	METHOD AND SYSTEM FOR ROUTING FIBRE CHANNEL FRAMES	Aug 11, 2008	12189502	United States of America	May 3, 2011	Jul 20, 2024	Oct 7, 2024
QN1102.US	7930377	METHOD AND SYSTEM FOR USING BOOT SERVERS IN NETWORKS	Oct 1, 2004	10957465	United States of America	Apr 19, 2011	Oct 1, 2024	Dec 11, 2027
QN1114-CON1.US	7924859	METHOD AND SYSTEM FOR EFFICIENTLY USING BUFFER SPACE	Mar 19, 2009	12407153	United States of America	Apr 12, 2011	Sep 1, 2024	Jan 7, 2025
QN1174.US	7920473	METHOD AND SYSTEM FOR MANAGING TRANSMIT DESCRIPTORS IN A NETWORKING SYSTEM	Dec 1, 2005	11291430	United States of America	Apr 5, 2011	Dec 1, 2025	Jan 30, 2029
QN1258.US	7908404	METHOD AND SYSTEM FOR MANAGING NETWORK AND STORAGE DATA	Mar 20, 2008	12052130	United States of America	Mar 15, 2011	Mar 20, 2028	Jan 13, 2029
QN1296.US	7907546	METHOD AND SYSTEM FOR PORT NEGOTIATION	Mar 25, 2009	12411176	United States of America	Mar 15, 2011	Mar 25, 2029	Mar 25, 2029
QN1291.US	7907414	NETWORK DEVICE HAVING LEVERS AND ASSOCIATED METHODS	Mar 24, 2009	12410294	United States of America	Mar 15, 2011	Mar 24, 2029	Oct 22, 2029
QN1253.US	7903558	METHOD AND SYSTEM FOR MONITORING A NETWORK LINK IN NETWORK SYSTEMS	Sep 28, 2007	11864651	United States of America	Mar 8, 2011	Sep 28, 2027	Jan 5, 2030
23368-09047	7895990	ENSURING BUFFER AVAILABILITY	Sep 13, 2004	10940355	United States of America	Feb 22, 2011	Sep 13, 2024	Jul 11, 2025
QN1262.US	7895300	SYSTEMS AND METHODS FOR TESTING DEVICE PORTS IN A STORAGE AREA NETWORK	Feb 28, 2008	12039604	United States of America	Feb 22, 2011	Feb 28, 2028	Jul 17, 2029
QN1101.US	7894348	METHOD AND SYSTEM FOR CONGESTION CONTROL IN A FIBRE CHANNEL SWITCH	Jul 20, 2004	10894732	United States of America	Feb 22, 2011	Jul 20, 2024	Aug 25, 2027
QN1232-CON1.US	7889730	COMPRESSION AND DECOMPRESSION FOR NETWORK SYSTEMS	Jan 7, 2010	12684054	United States of America	Feb 15, 2011	Jan 31, 2027	Jan 31, 2027
QN1211.US	7843846	METHOD AND SYSTEM FOR PROCESSING NETWORK INFORMATION	Sep 18, 2006	11522672	United States of America	Nov 30, 2010	Sep 18, 2026	May 21, 2028
QN1024-CON1.US	7830913	METHOD AND SYSTEM FOR PROCESSING NETWORK DATA PACKETS	Feb 19, 2008	12389308	United States of America	Nov 9, 2010	Jul 15, 2023	Aug 8, 2023
QN1070-CON1.US	7823061	METHOD AND SYSTEM FOR POWER CONTROL OF FIBRE CHANNEL SWITCHES	Nov 7, 2008	12267188	United States of America	Oct 26, 2010	Jul 20, 2024	Nov 3, 2024
QN1066D-CON.US	7822057	METHOD AND SYSTEM FOR KEEPING A FIBRE CHANNEL ARBITRATED LOOP OPEN DURING FRAME GAPS	Aug 14, 2008	12181890	United States of America	Oct 26, 2010	Jul 20, 2024	Dec 10, 2024
130.053US2	7822055	FIBRE CHANNEL CREDIT EXTENDER AND REPEATER	Sep 22, 2008	12235210	United States of America	Oct 26, 2010	Jun 10, 2022	Aug 4, 2022
QN1159.US	7802031	METHOD AND SYSTEM FOR HIGH SPEED NETWORK APPLICATION	May 18, 2005	11132020	United States of America	Sep 21, 2010	May 18, 2026	Jan 27, 2026
QN1050.US	7792115	METHOD AND SYSTEM FOR ROUTING AND FILTERING NETWORK DATA PACKETS IN FIBRE CHANNEL SYSTEMS	Jul 20, 2004	10894546	United States of America	Sep 7, 2010	Jul 20, 2024	Nov 13, 2028

UNM-104.2	7774374	SWITCHING SYSTEMS AND METHODS USING WILDCARD SEARCHING	Dec 28, 2006	11617716	United States of America	Aug 10, 2010	Mar 2, 2024	Apr 3, 2025
QN1248.US	7773629	METHOD AND SYSTEM FOR NETWORK PORT ADDRESSING	Jun 9, 2008	12135973	United States of America	Aug 10, 2010	Jun 9, 2028	Sep 25, 2028
QN1212.US	7773592	METHOD AND SYSTEM FOR ROUTING NETWORK INFORMATION	Sep 21, 2006	11533873	United States of America	Aug 10, 2010	Sep 21, 2026	Oct 5, 2028
QN1289.US	7765317	SYSTEM AND METHODS FOR LOCATING FPDU HEADERS WHEN MARKERS ARE DISABLED	Jun 30, 2008	12165464	United States of America	Jul 27, 2010	Jun 30, 2028	Apr 7, 2029
QN1221.US	7764676	METHOD AND SYSTEM FOR PROCESSING NETWORK INFORMATION	Jul 31, 2006	11461387	United States of America	Jul 27, 2010	Jul 31, 2026	Sep 12, 2027
QN1112.US	7761608	METHOD AND SYSTEM FOR PROCESSING MARKERS, DATA INTEGRITY FIELDS AND DIGESTS	Sep 1, 2006	10931850	United States of America	Jul 20, 2010	Sep 1, 2024	Jul 4, 2027
QN1059-CON.US	7760752	PROGRAMMABLE PSEUDO VIRTUAL LANES FOR FIBRE CHANNEL SYSTEMS	Jun 18, 2008	12141519	United States of America	Jul 20, 2010	Jul 20, 2024	Aug 26, 2024
QN1172.US	7735099	METHOD AND SYSTEM FOR PROCESSING NETWORK DATA	Dec 23, 2005	11317315	United States of America	Jun 8, 2010	Dec 23, 2025	Nov 30, 2028
QN1016.US-CON	7729288	ZONE MANAGEMENT IN A MULTI-MODULE FIBRE CHANNEL SWITCH	Mar 5, 2007	11682199	United States of America	Jun 1, 2010	Sep 11, 2022	Jul 26, 2023
QN1257.US	7720664	METHOD AND SYSTEM FOR PROCESSING NETWORK AND STORAGE DATA	Dec 21, 2007	11963366	United States of America	May 18, 2010	Dec 21, 2027	Jul 28, 2028
QN1265.US	7719969	SYSTEM AND METHOD FOR ASSIGNING NETWORK DEVICE PORT ADDRESS BASED ON LINK RATE	Dec 28, 2007	11966857	United States of America	May 15, 2010	Dec 28, 2027	Aug 19, 2028
QN1142.US	7694047	METHOD AND SYSTEM FOR SHARING INPUT/OUTPUT DEVICES	Feb 16, 2006	11355622	United States of America	Apr 6, 2010	Feb 16, 2026	Jul 31, 2026
UNM-101.1	7688667	DIJAL-MODE NETWORK STORAGE SYSTEMS AND METHODS	Aug 27, 2007	11845688	United States of America	Mar 30, 2010	Aug 6, 2022	Jan 8, 2023
QN1086.US	7684401	METHOD AND SYSTEM FOR USING EXTENDED FABRIC FEATURES WITH FABRIC CHANNEL SWITCH ELEMENTS	Jul 20, 2004	10894547	United States of America	Mar 23, 2010	Jul 20, 2024	Jun 13, 2028
130.055UE2	7684398	HARDWARE-ENFORCED LOOP-LEVEL HARD ZONING FOR FIBRE CHANNEL SWITCH FABRIC	Jun 20, 2007	11765724	United States of America	Mar 23, 2010	Dec 5, 2022	Jun 17, 2023
QN1196.US	7681102	BYTE LEVEL PROTECTION IN PCI-EXPRESS DEVICES	Apr 3, 2006	11396748	United States of America	Mar 16, 2010	Apr 3, 2026	Aug 5, 2028
QN1126.US	7676611	METHOD AND SYSTEM FOR PROCESSING OUT OF ORDER FRAMES	Oct 1, 2004	10956955	United States of America	Mar 9, 2010	Oct 1, 2024	Dec 7, 2025
QN1283.US	7675750	APPARATUS AND METHODS FOR COOLING NETWORK SWITCHES	Aug 29, 2008	12201359	United States of America	Mar 9, 2010	Aug 29, 2028	Aug 29, 2028
QN1098.US	7669190	METHOD AND SYSTEM FOR EFFICIENTLY RECORDING PROCESSOR EVENTS IN HOST BUS ADAPTERS	May 18, 2004	10847756	United States of America	Feb 23, 2010	May 18, 2024	Dec 2, 2027
QN1210.US	7669001	METHOD AND SYSTEM FOR USING APPLICATION SPECIFIC INTEGRATED CIRCUITS	Aug 31, 2006	11469377	United States of America	Feb 23, 2010	Aug 31, 2026	Jun 18, 2027
QN1187.US	7668978	METHOD AND SYSTEM FOR STORING FRAMES IN NETWORKS	Feb 17, 2006	11357515	United States of America	Feb 23, 2010	Feb 17, 2026	Jul 9, 2026
QN1237.US	7668177	METHOD AND SYSTEM FOR QUALITY OF SERVICE IN HOST BUS ADAPTERS	Jan 31, 2007	11669573	United States of America	Feb 23, 2010	Jan 31, 2027	May 3, 2028
QN1232.US	7668162	COMPRESSION AND DECOMPRESSION FOR NETWORK SYSTEMS	Jan 31, 2007	11669775	United States of America	Feb 23, 2010	Jan 31, 2027	Jun 15, 2028
QN1288.US	7667985	COMPUTER NETWORK DEVICE AND METHOD OF ASSEMBLY	Aug 28, 2008	12200649	United States of America	Feb 23, 2010	Aug 28, 2028	Oct 30, 2028
QN1209.US	7660302	METHOD AND SYSTEM FOR INTER-FABRIC ROUTING	Jun 15, 2006	11453500	United States of America	Feb 9, 2010	Jun 15, 2026	Oct 7, 2027
QN1044-CON.US	7649903	METHOD AND SYSTEM FOR MANAGING TRAFFIC IN FIBRE CHANNEL SYSTEMS	Aug 11, 2008	12189497	United States of America	Jan 19, 2010	Jul 20, 2024	Aug 11, 2024

ZB368-0853E-CON	7647363	REVISION CONTROL SYSTEM FOR LARGE-SCALE SYSTEMS MANAGEMENT	May 14, 2007	11748160	United States of America	Jan 12, 2010	May 14, 2027	Apr 24, 2028
QN1092.US	7646767	METHOD AND SYSTEM FOR PROGRAMMABLE DATA DEPENDENT NETWORK ROUTING	Jul 20, 2004	10894974	United States of America	Jan 12, 2010	Jul 20, 2024	Mar 25, 2027
QN1282.US	7646602	APPARATUS AND METHODS FOR COOLING NETWORK SWITCHES	Aug 29, 2008	12201304	United States of America	Jan 12, 2010	Aug 29, 2028	Aug 29, 2028
QN1234.US	7643505	METHOD AND SYSTEM FOR REAL TIME COMPRESSION AND DECOMPRESSION	Nov 30, 2006	11565444	United States of America	Jan 5, 2010	Nov 30, 2026	Dec 20, 2027
QN1168.US	7639715	DEDICATED APPLICATION INTERFACE FOR NETWORK SYSTEMS	Sep 9, 2005	11223663	United States of America	Dec 29, 2009	Sep 9, 2025	May 11, 2027
QN1164.US	7630876	METHOD AND SYSTEM FOR FILTERING UNKNOWN VALUES IN ASIC DESIGN SIMULATION	Oct 25, 2005	11257693	United States of America	Dec 8, 2009	Oct 25, 2025	Jun 12, 2027
QN1073.US	7630384	METHOD AND SYSTEM FOR DISTRIBUTING CREDIT IN FIBRE CHANNEL SYSTEMS	Jul 20, 2004	10894586	United States of America	Dec 8, 2009	Jul 20, 2024	Feb 3, 2027
QE1081.US	7620059	METHOD AND APPARATUS FOR ACCELERATING RECEIVE-MODIFY-SEND FRAMES IN A FIBRE CHANNEL NETWORK	Jul 12, 2004	10889215	United States of America	Nov 17, 2009	Jul 12, 2024	Aug 4, 2028
QN1213.US	7613816	METHOD AND SYSTEM FOR ROUTING NETWORK INFORMATION	Nov 15, 2006	11560317	United States of America	Nov 3, 2009	Nov 15, 2026	Oct 17, 2027
DN1214.US	7610482	METHOD AND SYSTEM FOR MANAGING BOOT TRACE INFORMATION IN HOST BUS ADAPTERS	Jun 28, 2006	11477161	United States of America	Oct 27, 2009	Jun 28, 2026	May 4, 2028
QN1248.US	7609710	METHOD AND SYSTEM FOR CREDIT MANAGEMENT IN A NETWORKING SYSTEM	Jan 24, 2008	12013094	United States of America	Oct 27, 2009	Jan 24, 2028	Jul 11, 2028
QN1177.US	7594057	METHOD AND SYSTEM FOR PROCESSING DMA REQUESTS	Jan 9, 2006	11328358	United States of America	Sep 22, 2009	Jan 9, 2026	May 22, 2026
DN1131.US	7593997	METHOD AND SYSTEM FOR LUN REMAPPING IN FIBRE CHANNEL NETWORKS	Oct 1, 2004	10956502	United States of America	Sep 22, 2008	Oct 1, 2024	Apr 14, 2027
QN1066B.US	7583597	METHOD AND SYSTEM FOR IMPROVING BANDWIDTH AND REDUCING HOLES IN FIBRE CHANNEL SWITCHES	Jul 20, 2004	10894725	United States of America	Sep 1, 2009	Jul 20, 2024	Mar 29, 2027
QN1066A.US	7580354	MULTI-SPEED CUT THROUGH OPERATION IN FIBRE CHANNEL SWITCHES	Jul 20, 2004	10894587	United States of America	Aug 25, 2009	Jul 20, 2024	Sep 12, 2026
DN1161.US	7577773	METHOD AND SYSTEM FOR DMA OPTIMIZATION	Sep 9, 2005	11222936	United States of America	Aug 18, 2009	Sep 9, 2025	Aug 1, 2026
QN1117.US	7577772	METHOD AND SYSTEM FOR OPTIMIZING DMA CHANNEL SELECTION	Sep 8, 2004	10835919	United States of America	Aug 18, 2009	Sep 8, 2024	Jun 1, 2025
QN1068.US	7573909	METHOD AND SYSTEM FOR PROGRAMMABLE DATA DEPENDENT NETWORK ROUTING	Jul 20, 2004	10894627	United States of America	Aug 11, 2009	Jul 20, 2024	Apr 16, 2026
QN1162.US	7565580	METHOD AND SYSTEM FOR TESTING NETWORK DEVICE LOGIC	Aug 10, 2005	11201036	United States of America	Jul 21, 2009	Aug 10, 2025	Apr 8, 2028
QN1072.US	7564789	METHOD AND SYSTEM FOR REDUCING DEADLOCK IN FIBRE CHANNEL FABRICS USING VIRTUAL LANES	Mar 11, 2004	10798468	United States of America	Jul 21, 2009	Mar 11, 2024	Aug 27, 2026
QN1096.US	7558281	METHOD AND SYSTEM FOR CONFIGURING FIBRE CHANNEL PORTS	Jul 20, 2004	10894917	United States of America	Jul 7, 2009	Jul 20, 2024	Apr 7, 2026
QN1233.US	7549005	SYSTEM AND METHOD FOR MANAGING INTERRUPTS	Dec 22, 2006	11615329	United States of America	Jun 16, 2009	Dec 22, 2026	May 17, 2027
QN1202.US	7548560	METHOD AND SYSTEM FOR CHECKING FRAME LENGTH IN FIBRE CHANNEL FRAMES	Feb 27, 2006	11363365	United States of America	Jun 16, 2009	Feb 27, 2026	Jul 2, 2027
UNM-102.1	7543250	ON-CHIP PACKET-BASED INTERCONNECTIONS USING REPEATERS/ROUTERS	Nov 18, 2005	11283210	United States of America	Jun 2, 2009	Apr 25, 2023	Nov 5, 2023
QN1132-CON.US	7542676	FIBRE CHANNEL TRANSPARENT SWITCH FOR MIXED SWITCH FABRICS	Feb 14, 2008	12031585	United States of America	Jun 2, 2009	Oct 8, 2024	Oct 8, 2024
QE1078-CON3.US	7542418	METHOD AND APPARATUS FOR DETECTING AND REMOVING ORPHANED PRIMITIVES IN A FIBRE CHANNEL NETWORK	Aug 26, 2008	12138664	United States of America	Jun 2, 2009	Jul 12, 2024	Jul 12, 2024

QN1058.US	7525983	METHOD AND SYSTEM FOR SELECTING VIRTUAL LANES IN FIBRE CHANNEL SWITCHES	Jul 20, 2004	10894827	United States of America	Apr 25, 2009	Jul 20, 2024	Oct 20, 2026
QN1197.US	7525968	METHOD AND SYSTEM FOR AUTO ROUTING FIBRE CHANNEL CLASS F FRAMES IN A FIBRE CHANNEL FABRIC	Mar 16, 2006	11376955	United States of America	Apr 28, 2009	Mar 16, 2026	Jul 6, 2027
QE1075.US	7528910	METHOD AND SYSTEM FOR NON-DISRUPTIVE DATA CAPTURE IN NETWORKS	Jul 12, 2004	10889635	United States of America	Apr 28, 2009	Jul 12, 2024	Oct 11, 2025
QN1134.US	7522623	METHOD AND SYSTEM FOR EFFICIENTLY USING BUFFER SPACE	Sep 1, 2004	10931851	United States of America	Apr 21, 2009	Sep 1, 2024	Jul 5, 2026
QN1063.US	7522529	METHOD AND SYSTEM FOR DETECTING CONGESTION AND OVER SUBSCRIPTION IN A FIBRE CHANNEL NETWORK	Jul 20, 2004	10895175	United States of America	Apr 21, 2009	Jul 20, 2024	Mar 24, 2027
QN1061.US	7522522	METHOD AND SYSTEM FOR REDUCING LATENCY AND CONGESTION IN FIBRE CHANNEL SWITCHES	Jul 20, 2004	10894595	United States of America	Apr 21, 2009	Jul 20, 2024	Nov 27, 2026
QN1133.US	7519058	ADDRESS TRANSLATION IN FIBRE CHANNEL SWITCHES	Jan 18, 2005	11037922	United States of America	Apr 14, 2009	Jan 18, 2025	Feb 7, 2027
QN1188.US	7518995	METHOD AND SYSTEM FOR MANAGING FRAME FLOW IN FIBRE CHANNEL SYSTEMS	Feb 27, 2006	11362690	United States of America	Apr 14, 2009	Feb 27, 2026	Aug 3, 2027
QN1024.US	7515812	METHOD AND SYSTEM FOR PROCESSING NETWORK DATA PACKETS	Jul 15, 2003	10619719	United States of America	Apr 7, 2009	Jul 15, 2023	Sep 25, 2026
Z3368-09046	7512721	METHOD AND APPARATUS FOR EFFICIENT DETERMINATION OF STATUS FROM DMA LISTS	Oct 11, 2004	10863287	United States of America	Mar 31, 2009	Oct 11, 2024	Jun 20, 2027
QN1086E.US	7512067	METHOD AND SYSTEM FOR CONGESTION CONTROL BASED ON OPTIMUM BANDWIDTH ALLOCATION IN A FIBRE CHANNEL SWITCH	Jul 20, 2004	10894536	United States of America	Mar 31, 2009	Jul 20, 2024	Jun 19, 2026
Z3368-09048-CON	7500057	SELF-TRIGGERING OUTGOING BUFFERS	Nov 1, 2007	11933860	United States of America	Mar 3, 2009	Aug 25, 2024	Aug 25, 2024
QN1153.US	7496745	METHOD AND SYSTEM FOR MANAGING STORAGE AREA NETWORKS	Feb 2, 2006	11346106	United States of America	Feb 24, 2009	Feb 2, 2026	Sep 27, 2027
UNM-105	7493481	DIRECT HARDWARE PROCESSING OF INTERNAL DATA STRUCTURE FIELDS	May 17, 2004	10848485	United States of America	Feb 17, 2009	May 17, 2024	Jul 7, 2025
QN1071.US	7480293	METHOD AND SYSTEM FOR PREVENTING DEADLOCK IN FIBRE CHANNEL FABRICS USING FRAME PRIORITIES	Mar 11, 2004	10798527	United States of America	Jan 20, 2009	Mar 11, 2024	Feb 2, 2026
QN1070.US	7477855	METHOD AND SYSTEM FOR POWER CONTROL OF FIBRE CHANNEL SWITCHES	Jul 20, 2004	10894689	United States of America	Jan 13, 2009	Jul 20, 2024	Dec 8, 2026
QE1082.US	7471635	METHOD AND APPARATUS FOR TEST PATTERN GENERATION	Jul 12, 2004	10889255	United States of America	Dec 30, 2008	Jul 12, 2024	Dec 27, 2025
QN1088.US	7469267	METHOD AND SYSTEM FOR HOST DEVICE EVENT SYNCHRONIZATION	Jun 28, 2004	10878595	United States of America	Dec 23, 2008	Jun 28, 2024	Aug 9, 2026
QN1065.US	7466700	LUN BASED HARD ZONING IN FIBRE CHANNEL SWITCHES	Jul 20, 2004	10894492	United States of America	Dec 16, 2008	Jul 20, 2024	Feb 26, 2026
QE1079.US	7463646	METHOD AND SYSTEM FOR FIBRE CHANNEL ARBITRATED LOOP ACCELERATION	Jul 12, 2004	10889267	United States of America	Dec 9, 2008	Jul 12, 2024	Feb 16, 2026
QN1188.US	7461195	METHOD AND SYSTEM FOR DYNAMICALLY ADJUSTING DATA TRANSFER RATES IN PCI-EXPRESS DEVICES	Mar 17, 2006	11378838	United States of America	Dec 2, 2008	Mar 17, 2026	Apr 18, 2026
QN1218.US	7457887	METHOD AND SYSTEM FOR PROCESSING ASYNCHRONOUS EVENT NOTIFICATIONS	Aug 10, 2006	11502282	United States of America	Nov 25, 2008	Aug 10, 2026	Feb 3, 2027
QE1078.US	7453892	METHOD AND APPARATUS FOR DETECTING AND REMOVING ORPHANED PRIMITIVES IN A FIBRE CHANNEL NETWORK	Jul 12, 2004	10889259	United States of America	Nov 18, 2008	Jul 12, 2024	Mar 11, 2026
QN1179.US	7447874	METHOD AND SYSTEM FOR DESIGNING A FLEXIBLE HARDWARE STATE MACHINE	Oct 18, 2005	11252524	United States of America	Nov 4, 2008	Oct 18, 2025	Jan 30, 2026
QN1203.US	7447817	METHOD AND SYSTEM FOR PROCESSING ARBITRATION REQUESTS	May 9, 2006	11430704	United States of America	Nov 4, 2008	May 9, 2026	Aug 9, 2026
QN1147.US	7447618	METHOD AND SYSTEM FOR ASIC SIMULATION	May 11, 2005	11126988	United States of America	Nov 4, 2008	May 11, 2025	Sep 9, 2026

QNI066C.US	7447224	METHOD AND SYSTEM FOR ROUTING FIBRE CHANNEL FRAMES	Jul 20, 2004	10894529	United States of America	Nov 4, 2008	Jul 20, 2024	May 17, 2026
QT1193.US	7447197	SYSTEM AND METHOD OF PROVIDING NETWORK NODE SERVICES	Apr 4, 2005	11098831	United States of America	Nov 4, 2008	Oct 18, 2021	Jul 28, 2023
130.053US1	7443794	FIBRE CHANNEL CREDIT EXTENDER AND REPEATER	Jun 10, 2002	10166570	United States of America	Oct 28, 2008	Jun 10, 2022	Aug 7, 2025
QNI1044.US	7430175	METHOD AND SYSTEM FOR MANAGING TRAFFIC IN FIBRE CHANNEL SYSTEMS	Jul 20, 2004	10894579	United States of America	Sep 30, 2008	Jul 20, 2024	Jul 1, 2026
QNI1094.US	7424564	PCI EXPRESS SLOT FOR COUPLING PLURAL DEVICES TO A HOST SYSTEM	Mar 23, 2004	10806681	United States of America	Sep 9, 2008	Mar 23, 2024	Nov 4, 2025
QNI102E.US	7424419	METHOD AND SYSTEM FOR PROVIDING A VIRTUAL UNIVERSAL SERIAL PORT INTERFACE AND A VIRTUAL STORAGE INTERFACE	May 27, 2003	10445685	United States of America	Sep 9, 2008	May 27, 2023	Mar 7, 2025
QNI1158.US	7420991	TCP TIME STAMP PROCESSING IN HARDWARE BASED TCP OFFLOAD ADAPTER	Apr 1, 2005	11097024	United States of America	Sep 2, 2008	Jul 15, 2023	Sep 6, 2025
QNI1068D.US	7420982	METHOD AND SYSTEM FOR KEEPING A FIBRE CHANNEL ARBITRATED LOOP OPEN DURING FRAME GAPS	Jul 20, 2004	10894491	United States of America	Sep 2, 2008	Jul 20, 2024	May 12, 2026
QNI111E.US	7411958	METHOD AND SYSTEM FOR TRANSFERRING DATA DIRECTLY BETWEEN STORAGE DEVICES IN A STORAGE AREA NETWORK	Oct 1, 2004	10956717	United States of America	Aug 12, 2008	Oct 1, 2024	Apr 8, 2026
130.045US2	7408927	HIGH PERFORMANCE SWITCH FABRIC ELEMENT AND SWITCH SYSTEMS	Jan 6, 2004	10752390	United States of America	Aug 5, 2008	Jul 2, 2019	Oct 8, 2021
QNI1059.US	7406092	PROGRAMMABLE PSEUDO VIRTUAL LANES FOR FIBRE CHANNEL SYSTEMS	Jul 20, 2004	10894597	United States of America	Jul 29, 2008	Jul 20, 2024	Aug 10, 2026
QNI110B.US	7404020	INTEGRATED FIBRE CHANNEL FABRIC CONTROLLER	Jul 20, 2004	10894529	United States of America	Jul 22, 2008	Jul 20, 2024	Apr 9, 2026
QNI1022.US	7403542	METHOD AND SYSTEM FOR PROCESSING NETWORK DATA PACKETS	Jul 15, 2003	10620946	United States of America	Jul 22, 2008	Jul 15, 2023	Sep 14, 2025
QNI1134.US	7398335	METHOD AND SYSTEM FOR DMA OPTIMIZATION IN HOST BUS ADAPTERS	Nov 22, 2004	10994883	United States of America	Jul 8, 2008	Nov 22, 2024	Dec 14, 2025
QNI101E.US	7397766	ZONE MANAGEMENT IN A MULTI-MODULE FIBRE CHANNEL SWITCH	Sep 11, 2002	10241153	United States of America	Jul 8, 2008	Sep 11, 2022	Mar 10, 2025
QNI1146.US	7392437	METHOD AND SYSTEM FOR TESTING HOST BUS ADAPTERS	Jan 20, 2005	11039189	United States of America	Jun 24, 2008	Jan 20, 2025	Nov 6, 2026
QT1190-CON.US	7389399	SECURE VIRTUAL INTERFACE	Mar 1, 2003	11070858	United States of America	Jun 17, 2008	Jan 4, 2021	Feb 8, 2022
QNI1009-CON.US	7388861	METHOD AND SYSTEM FOR PRIMARY BLADE SELECTION IN A MULTI-MODULE FIBRE CHANNEL SWITCH	Dec 8, 2006	11608634	United States of America	Jun 17, 2008	Jul 22, 2022	Jul 22, 2022
QE1080.US	7388843	METHOD AND APPARATUS FOR TESTING LOOP PATHWAY INTEGRITY IN A FIBRE CHANNEL ARBITRATED LOOP	Jul 12, 2004	10889581	United States of America	Jun 17, 2008	Jul 12, 2024	Aug 3, 2026
QNI1136.US	7380030	METHOD AND SYSTEM FOR USING AN IN-LINE CREDIT EXTENDER WITH A HOST BUS ADAPTER	Oct 1, 2004	10956718	United States of America	May 27, 2008	Oct 1, 2024	Feb 22, 2026
QNI1217.US	7379837	METHOD AND SYSTEM FOR TESTING INTEGRATED CIRCUITS	Jul 21, 2005	11491357	United States of America	May 27, 2008	Jul 21, 2026	Jul 21, 2026
UNMI-1009-1	7376811	METHOD AND APPARATUS FOR PERFORMING COMPUTATIONS AND OPERATIONS ON DATA USING DATA STEERING	Nov 6, 2001	99992637	United States of America	May 20, 2008	Nov 6, 2021	Jan 28, 2023
QNI017.US	7362717	METHOD AND SYSTEM FOR USING DISTRIBUTED NAME SERVERS IN MULTI-MODULE FIBRE CHANNEL SWITCHES	Oct 3, 2002	10263858	United States of America	Apr 22, 2008	Oct 3, 2022	May 10, 2025
QT1192-DIV1.US	7362702	ROUTER WITH ROUTING PROCESSORS AND METHODS FOR VIRTUALIZATION	Oct 29, 2002	10284273	United States of America	Apr 22, 2008	Oct 18, 2021	Oct 21, 2024
QE107E.US	7355966	METHOD AND SYSTEM FOR MINIMIZING DISRUPTION IN COMMON-ACCESS NETWORKS	Jul 12, 2004	10889337	United States of America	Apr 8, 2008	Jul 12, 2024	Jul 6, 2026
QNI1062.US	7352701	BUFFER TO BUFFER CREDIT RECOVERY FOR IN-LINE FIBRE CHANNEL CREDIT EXTENSION DEVICES	Sep 19, 2003	10664548	United States of America	Apr 1, 2008	Sep 19, 2023	Mar 2, 2026

QN1132 US	7340167	FIBRE CHANNEL TRANSPARENT SWITCH FOR MIXED SWITCH FABRICS	Oct 8, 2004	10961463	United States of America	Mar 4, 2008	Oct 8, 2024	Jan 22, 2025
QN1020 US	7334086	SYSTEM AND METHOD FOR OPTIMIZING FRAME ROUTING IN A NETWORK	Aug 5, 2002	10212425	United States of America	Feb 19, 2008	Aug 5, 2022	Jun 20, 2024
23388-09048	7308835	SELF-TRIGGERING OUTGOING BUFFERS	Aug 25, 2004	10927170	United States of America	Dec 11, 2007	Aug 25, 2024	Jan 7, 2026
QT1192-DIV3 US	7292567	ROUTER AND METHODS FOR DISTRIBUTED VIRTUALIZATION	Oct 31, 2002	10285226	United States of America	Nov 6, 2007	Oct 18, 2021	Jan 28, 2025
QN1150 US	7281077	ELASTIC BUFFER MODULE FOR PCI EXPRESS DEVICES	Apr 6, 2005	11099759	United States of America	Oct 9, 2007	Apr 6, 2025	Nov 28, 2025
UNM-101	7263108	DUAL-MODE NETWORK STORAGE SYSTEMS AND METHODS	Aug 6, 2002	10213237	United States of America	Aug 28, 2007	Aug 6, 2022	Jul 14, 2025
130.055U51	7248580	HARDWARE-ENFORCED LOOP-LEVEL HARD ZONING FOR FIBRE CHANNEL SWITCH FABRIC	Dec 5, 2002	10310653	United States of America	Jul 24, 2007	Dec 5, 2022	Sep 8, 2025
QN1067 US	7234101	METHOD AND SYSTEM FOR PROVIDING DATA INTEGRITY IN STORAGE SYSTEMS	Sep 30, 2003	10674943	United States of America	Jun 19, 2007	Sep 30, 2023	Mar 17, 2025
QN1151 US	7231480	METHOD AND SYSTEM FOR RECEIVER DETECTION IN PCI EXPRESS DEVICES	Apr 6, 2005	11100063	United States of America	Jun 12, 2007	Apr 6, 2025	Jan 6, 2026
23368-08538	7231419	REVISION CONTROL SYSTEM FOR LARGE-SCALE SYSTEMS MANAGEMENT	Mar 10, 2004	10797977	United States of America	Jun 12, 2007	Mar 10, 2024	Jun 26, 2025
QN1009A US	7230929	METHOD AND SYSTEM FOR DYNAMICALLY ASSIGNING DOMAIN IDENTIFICATION IN A MULTI-MODULE FIBRE CHANNEL SWITCH	Jul 22, 2002	10200393	United States of America	Jun 12, 2007	Jul 22, 2022	Apr 1, 2025
QN1152 US	7230549	METHOD AND SYSTEM FOR SYNCHRONIZING BIT STREAMS FOR PCI EXPRESS DEVICES	Sep 9, 2005	11222592	United States of America	Jun 12, 2007	Sep 9, 2025	Jan 3, 2026
QN1087 US	7219263	METHOD AND SYSTEM FOR MINIMIZING MEMORY CORRUPTION	Oct 29, 2003	10696471	United States of America	May 15, 2007	Oct 29, 2023	Aug 10, 2025
QT1192 US	7200144	ROUTER AND METHODS USING NETWORK ADDRESSES FOR VIRTUALIZATION	Oct 18, 2001	10120266	United States of America	Apr 3, 2007	Oct 18, 2021	May 13, 2024
QN1165 US	7168871	GASKET RETAINER	May 31, 2003	11140891	United States of America	Jan 30, 2007	May 31, 2025	Oct 1, 2025
QN1139 US	7164425	METHOD AND SYSTEM FOR HIGH SPEED NETWORK APPLICATION	Dec 21, 2004	11018055	United States of America	Jan 16, 2007	Dec 21, 2024	Sep 18, 2025
QN1009 US	7154886	METHOD AND SYSTEM FOR PRIMARY BLADE SELECTION IN A MULTI-MODULE FIBRE CHANNEL SWITCH	Jul 22, 2002	10200487	United States of America	Dec 26, 2006	Jul 22, 2022	Jun 28, 2025
QE1083 US	7152132	METHOD AND APPARATUS FOR IMPROVING BUFFER UTILIZATION IN COMMUNICATION NETWORKS	Jul 12, 2004	10888588	United States of America	Dec 19, 2006	Jul 12, 2024	Dec 19, 2024
QN1069 US	7103504	METHOD AND SYSTEM FOR MONITORING EVENTS IN STORAGE AREA NETWORKS	Nov 21, 2003	10719077	United States of America	Sep 5, 2006	Nov 21, 2023	Nov 21, 2023
QMFG1052 US	7009413	SYSTEM AND METHOD FOR TESTING BALL GRID ARRAYS	Oct 10, 2003	10683622	United States of America	Mar 7, 2006	Oct 10, 2023	Oct 10, 2023
UNM-102	6996785	ON-CHIP PACKET-BASED INTERCONNECTIONS USING REPEATERS/ROUTERS	Apr 25, 2003	10423499	United States of America	Feb 7, 2006	Apr 25, 2023	Aug 23, 2024
057040-5009	6988150	SYSTEM AND METHOD FOR EVENTLESS DETECTION OF NEWLY DELIVERED VARIABLE LENGTH MESSAGES FROM A SYSTEM AREA NETWORK	Jun 28, 2002	10186291	United States of America	Jan 17, 2006	Jun 28, 2022	Mar 14, 2023
QT1191 US	6976174	SECURE VIRTUAL INTERFACE	Feb 21, 2001	09792428	United States of America	Dec 13, 2005	Jan 4, 2021	Oct 16, 2022
QN1054 US	6961784	METHOD AND SYSTEM FOR PROCESSING NON-DATA FRAMES IN HOST BUS ADAPTERS	Apr 17, 2003	10417523	United States of America	Nov 1, 2005	Apr 17, 2023	Apr 17, 2023
QC1055 US	6959345	METHOD AND SYSTEM FOR CALIBRATING SCSI EXPANDERS	Apr 10, 2003	10410773	United States of America	Oct 25, 2005	Apr 10, 2023	Apr 17, 2024
QT1190 US	6883099	SECURE VIRTUAL INTERFACE	Jan 4, 2001	09755642	United States of America	Apr 19, 2005	Jan 4, 2021	May 4, 2023

GN1008.US	6864814	SYSTEM AND METHOD FOR IMPROVING DYNAMIC RANGE OF ANALOG TO DIGITAL CONVERTERS	Jun 20, 2003	10660779	United States of America	Mar 8, 2005	Jun 20, 2023	Jul 29, 2023
QLOGIC.007A-DIV	6810440	METHOD AND APPARATUS FOR AUTOMATICALLY TRANSFERRING I/O BLOCKS BETWEEN A HOST SYSTEM AND A HOST ADAPTER	Feb 27, 2003	10375643	United States of America	Oct 26, 2004	Jun 9, 2019	Jun 9, 2019
QMPG1033.US	6769586	METHOD AND SYSTEM FOR REWORKING BALL GRID ARRAYS	Nov 15, 2002	10295876	United States of America	Aug 3, 2004	Nov 15, 2022	Nov 15, 2022
130.045US1	6697359	HIGH PERFORMANCE SWITCH FABRIC ELEMENT AND SWITCH SYSTEMS	Jul 2, 1999	09346793	United States of America	Feb 24, 2004	Jul 2, 2019	Jul 2, 2019
130.038US1	6597691	HIGH PERFORMANCE SWITCHING	Aug 30, 1999	09386109	United States of America	Jul 22, 2003	Aug 30, 2019	Aug 30, 2019
QLOGIC.007A	6564271	METHOD AND APPARATUS FOR AUTOMATICALLY TRANSFERRING I/O BLOCKS BETWEEN A HOST SYSTEM AND A HOST ADAPTER	Jun 9, 1999	09328738	United States of America	May 13, 2003	Jun 9, 2019	Jun 9, 2019
QLOGIC.008A	6470397	SYSTEMS AND METHODS FOR NETWORK AND I/O DEVICE DRIVERS	Mar 30, 1999	09280506	United States of America	Oct 22, 2002	Mar 30, 2019	Mar 30, 2019
QLOGIC.008A	6434630	HOST ADAPTER FOR COMBINING I/O COMPLETION REPORTS AND METHODS OF USING THE SAME	Mar 31, 1999	09282341	United States of America	Aug 13, 2002	Mar 31, 2019	Mar 31, 2019
QLOGIC.010A	6327635	ADD-ON CARD WITH AUTOMATIC BUS POWER LINE SELECTION CIRCUIT	Mar 30, 1999	09281369	United States of America	Dec 4, 2001	Mar 30, 2019	Mar 30, 2019
QLOGICP.015A	6317842	METHOD AND CIRCUIT FOR RECEIVING DUAL EDGE CLOCKED DATA	Feb 16, 1999	09249873	United States of America	Nov 13, 2001	Feb 16, 2019	Feb 16, 2019
QLOGIC.002A	6229845	BUS DRIVER WITH DATA DEPENDENT DRIVE STRENGTH CONTROL LOGIC	Feb 25, 1999	09257803	United States of America	May 8, 2001	Feb 25, 2019	Feb 25, 2019
QLOGIC.001A	6167921	INTERFACE MODULE WITH PROTECTION CIRCUIT AND METHOD OF PROTECTING AN	Jun 25, 1998	09104731	United States of America	Dec 26, 2000	Jun 25, 2018	Jun 25, 2018
QLOGIC.001A	6163550	STATE DEPENDENT SYNCHRONIZATION CIRCUIT WHICH SYNCHRONIZES LEADING AND TRAILING EDGES OF ASYNCHRONOUS INPUT PULSES	Nov 17, 1997	08972117	United States of America	Dec 15, 2000	Nov 17, 2017	Nov 17, 2017
QLOGIC.002A	6055285	SYNCHRONIZATION CIRCUIT FOR TRANSFERRING POINTER BETWEEN TWO ASYNCHRONOUS	Nov 17, 1997	08971387	United States of America	Apr 25, 2000	Nov 17, 2017	Nov 17, 2017
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