

CROSSROADS PATENT STATUS
(August 2, 2017)

CROSS1120 U.S. PATENTS

Title: Storage Router and Method for Providing Virtual Local Storage
Inventor(s): Hoese, Geoffrey B.
Russell, Jeffrey T.

SIPLG (CRDS) Reference No.	Country	Application No. Application Date	Patent No. Issue Date	Priority No. Priority Date	Expiration Date	Status/Remarks
CROSS1120 (CSI0002)	US	09/001,799 12/31/97	5,941,972 08/24/99		12/31/17	Granted 11.5 Year Tax Paid 01/13/11
CROSS1120-1 (CSI0002.1)	US	09/354,682 07/15/99	6,421,753 07/16/02	09/001,799 12/31/97	12/31/17	Granted 11.5 Year Tax Paid: 01/14/14
CROSS1120-2 (CSI0002.2)	US	09/965,339 9/27/01	6,425,036 7/23/02	09/001,799 12/31/97	12/31/17	Granted 11.5 Year Tax Paid: 01/14/14
CROSS1120-3 (CSI0002.3)	US	09/965,335 9/27/01	6,425,035 7/23/02	09/001,799 12/31/97	12/31/17	Granted 11.5 Year Tax Paid: 01/14/14
CROSS1120-4 (CSI0002.4) CROSS1120-11	US	10/023,786 12/18/01		09/001,799 12/31/97		Abandoned Per Client Instructions
CROSS1120-5 (CSI0002.5)	US	10/081,110 2/22/02	6,789,152 09/07/04	09/001,799 12/31/97	12/31/17	Granted: 11.5 Year Tax Paid: 01/14/16
CROSS1120-6 (CSI0002.6) CROSS1120-12	US	10/081,114 2/22/02		09/001,799 12/31/97		Abandoned Per Client Instructions
CROSS1120-7 (CSI0002.7)	US	10/081,082 02/22/02		09/001,799 12/31/97		Abandoned per client instructions.
CROSS1120-8 (CSI0002.8)	US	10/174,720 6/19/02	6,738,854 05/18/04	09/001,799 12/31/97	12/31/17	Granted: 11.5 Year Tax Paid: 09/23/15
CROSS1120-9 (CSI0002.9)	US	10/361,283 02/10/03	6,763,419 07/13/04	09/001,799 12/31/97	12/31/17	Granted: 11.5 Year Tax Paid 12/14/15
CROSS1120-10 (CSI0002.10)	US					Unfiled

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SIPLG (CRDS) Reference No.	Country	Application No. Application Date	Patent No. Issue Date	Priority No. Priority Date	Expiration Date	Status/Remarks
CROSS1120-11	US	10/638,955 08/11/03		09/001,799 12/31/97		Abandoned.
CROSS1120-12	US	10/640,468 08/13/07		09/001,799 12/31/97		Abandoned.
CROSS1120-13 (CSI0002.13)	US	10/658,163 09/09/03	7,051,147 05/23/06	09/001,799 12/31/97	12/31/17	Granted: 11.5 Year Tax Due: 11/23/17
CROSS1120-14 (CSI0002) Re-Exam of CROSS1120	US	90/007,113 07/14/04		09/001,799 12/31/97		Granted: 04/25/06: ExParte Reexam Cert.
CROSS1121-15 (CSI0002.1) Re-Exam of CROSS1120-1	US	90/007,124 07/14/04		09/001,799 12/31/97		Granted: 08/01/06: ExParte Reexam Cert.
CROSS1122-16 (CSI0002.2) Re-Exam of CROSS1120-2	US	90/007,126 07/14/04		09/001,799 12/31/97		Granted: 05/02/06: ExParte Reexam Cert.
CROSS1123-17 CROSS1123-19 (CSI0002.3) Re-Exams of CROSS1120-3	US	90/007,125 07/14/04 90/007,317 11/23/04		09/001,799 12/31/97		Granted: 08/08/06 ExParte Reexam Cert.
CROSS1128-18 (CSI0002.8) Re-Exam of CROSS1120-8	US	90/007,127 07/14/04		09/001,799 12/31/97		Granted: 06/13/06: Ex Parte Rexam Cert.
CROSS1123-19	US	90/007,317 11/23/04		09/001,799 12/31/97		Granted: Combined with CROSS1123-17.

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SIPLG (CRDS) Reference No.	Country	Application No. Application Date	Patent No. Issue Date	Priority No. Priority Date	Expiration Date	Status/Remarks
CROSS1120-20 Cont. of CROSS1120-13	US	11/191,254 07/27/05		09/001,799 12/31/97		Abandoned per client instr.
CROSS1120-21 (CSI0002.13) Cont. of CROSS1120-13	US	11/353,826 02/14/06	7,340,549 03/04/08	09/001,799 12/31/97	12/31/17	Granted: 7.5 Year Tax Due: 09/04/15
CROSS1120-22 (CSI0002.22) Cont. to CROSS1120-21	US	11/442,878 05/30/06		09/001,799 12/31/97		Closed per client instr.
CROSS1120-23 (CSI0002.23)	US	11/851,724 09/07/07	7,689,754 03/30/10	09/001,799 12/31/97	12/31/17	Granted: 7.5 Year Tax Due: 09/30/17
CROSS1120-24 (CSI0002.24)	US	11/851,775 09/07/07	7,552,266 06/23/09	09/001,799 12/31/97	12/31/17	Granted: 7.5 Year Tax Paid: 12/15/16
CROSS1120-25 (CSI0002.25)	US	11/851,837 09/07/07	7,694,058 04/06/10	09/001,799 12/31/97	12/31/17	Granted: 7.5 Year Tax Due: 10/06/17
CROSS1120-26 (CSI0002.26)	US	11/980,909 10/31/07	8,046,515 10/25/11	09/001,799 12/31/97	12/31/17	Granted: 3.5 Year Tax Paid: 04/01/15
CROSS1120-27 (CSI0002.27)	US	11/947,499 11/29/07	7,984,221 07/19/11	09/001,799 12/31/97	12/31/17	Granted: 3.5 Year Tax Paid: 01/05/15
CROSS1120-28 (CSI0002.28)	US	12/220,431 07/24/08	US RE42,761 12/27/11	09/001,799 12/31/97	12/13/17	Granted: Reissue of CROSS1120-21

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SIPLG (CRDS) Reference No.	Country	Application No. Application Date	Patent No. Issue Date	Priority No. Priority Date	Expiration Date	Status/Remarks
CROSS1120-29 (CSI0002.29)	US	12/552,807 09/02/09	7,937,517 05/03/11	09/001,799 12/31/97	12/31/17	Granted: 3.5 Year Tax Paid: 11/03/14
CROSS1120-30 (CSI0002.30)	US	12/552,885 09/02/09	7,934,040 04/26/11	09/001,799 12/31/97	12/31/17	Granted: 3.5 Year Tax Paid: 10/21/14
CROSS1120-32 (CSI0002.32)	US	12/552,913 09/02/09	8,015,339 09/06/11	09/001,799 12/31/97	12/31/17	Granted: 3.5 Year Tax Paid: 03/13/15
CROSS1120-33 (CSI0002.33)	US	12/690,592 01/20/10	7,934,041 04/26/11	09/001,799 12/31/97	12/31/17	Granted: 3.5 Year Tax Paid: 10/21/14
CROSS1120-34 (CSI002.34)	US	12/910,431 10/22/10	7,984,224 07/19/11	09/001,799 12/31/97	12/13/17	Granted: 3.5 Year Tax Paid: 01/05/15
CROSS1120-35 (CSI002.35)	US	12/910,375 10/22/10	8,028,117 09/27/11	09/001,799 12/31/97	12/13/17	Granted: 3.5 Year Tax Paid: 03/06/15
CROSS1120-36 (CSI002.36)	US	12/910,476 10/22/10	8,402,193 03/19/13	09/001,799 12/31/97	12/13/17	Granted: 3.5 Year Tax Paid: 08/25/16
CROSS1120-37 (CSI002.37)	US	12/910,515 10/22/10	7,987,311 07/27/11	09/001,799 12/31/97	12/13/17	Granted: 3.5 Year Tax Paid 01/05/15
CROSS1120-38 (CSI002.38)	US	13/197,534 08/03/11	8,402,194 03/19/13	09/001,799 12/31/97	12/13/17	Granted: 3.5 Year Tax Paid: 08/25/16
CROSS1120-39 (CSI002.39)	US	13/766,301 02/13/13		09/001,799 12/31/97	12/13/17	Allowed: Issue Fee due: 10/28/17

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CROSS1120-FOREIGN

Attorney Dkt.	Country	Application No. FilingDate	Grant No Grant Date	Priority No. Priority Date	Expiration Date	Status
CROSS1120/PCT	PCT	US98/27689 12/28/98		09/001,799 12/31/97		Inactive
CROSS1120/CA	Canada	2,315,199 12/28/98	2,315,199 01/21/03	09/001,799 12/31/97	12/28/18	Granted: Annuity Due: 12/28/17
CROSS1120/EP	EPO	98966104.6 12/28/98	1044414 12/14/05	09/001,799 12/31/97	12/28/18	Granted: See DE, FR, GB, HK
CROSS1120/DE	Germany	98966104.6 12/28/98	69832818.3 12/14/05	09/001,799 12/31/97	12/28/18	Granted: Annuity Due: 12/28/17
CROSS1120/FR	France	98966104.6 12/28/98	1044414 12/14/05	09/001,799 12/31/97	12/28/18	Granted: Annuity Due: 12/28/17
CROSS1120/GB	United Kingdom	98966104.6 12/28/98	1044414 12/14/05	09/001,799 12/31/97	12/28/18	Granted: Annuity Due: 12/28/17
CROSS1120/JP	Japan	526873/2000 12/28/98	4691251 02/25/11	09/001,799 12/31/97	12/28/18	Granted: Annuity Due: 02/25/18
CROSS1120/HK	Hong Kong	01100975.8 02/12/01				Inactive
CROSS1121/EP	EPO	05027161.8 12/13/05				Inactive

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CROSS1123/EP	EPO	10012769.5 10/01/10				Inactive
CROSS1124/EP	EPO	10012770.3 10/01/10		09/001,799 12/31/97		Inactive
CROSS1125/EP	EPO	10012768.7 10/01/10		09/001,799 12/31/97		Inactive

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NEXQL PATENTS**Title:** Index Relational Processor**Inventor(s)** Jay Bruce Ross and Merle Thomas Prouix

SIPLG (CRDS) Reference No.	Country	Application No. Application Date	Patent No. Issue Date	Priority No. Priority Date	Expiration Date	Status/Remarks
CROSS2070 (CSI0____)	US	09/390,221 09/03/99	6,334,123 12/25/01		09/03/19	Granted: 11.5 Year Tax Paid 06/03/13

Title: Method and Apparatus for Implementing Run-Length Compression**Inventor(s)** Jay Bruce Ross

SIPLG (CRDS) Reference No.	Country	Application No. Application Date	Patent No. Issue Date	Priority No. Priority Date	Expiration Date	Status/Remarks
CROSS2080 (CSI0____)	US	09/389,542 09/03/99	6,535,150 03/18/03		09/03/19	Lapsed Per Client Instr.

Title: Asynchronous Concurrent Dual-Stream FIFO**Inventor(s)** Jay Bruce Ross

SIPLG (CRDS) Reference No.	Country	Application No. Application Date	Patent No. Issue Date	Priority No. Priority Date	Expiration Date	Status/Remarks
CROSS2090 (CSI0____)	US	09/390,499 09/03/99	6,507,877 01/14/03		09/03/19	Lapsed Per Client Instr.

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Title: Enhanced Boolean Processor with Parallel Input

Inventor(s) Jay Bruce Ross

SIPLG (CRDS) Reference No.	Country	Application No. Application Date	Patent No. Issue Date	Priority No. Priority Date	Expiration Date	Status/Remarks
CROSS2100-1 (CSI0_____)	US	09/684,761 10/06/00	6,829,695 12/07/04	09/684,761 09/03/99	01/22/23	Granted: 11.5 Year Tax Paid: 03/07/16

Title: Enhanced Boolean Processor with Parallel Input

Inventor(s) Jay Bruce Ross

SIPLG (CRDS) Reference No.	Country	Application No. Application Date	Patent No. Issue Date	Priority No. Priority Date	Expiration Date	Status/Remarks
CROSS2100-2 (CSI0_____)	US	11/005,666 12/07/04		09/684,761 09/03/99 09/389,567 09/03/99		Abandoned.

Title: Enhanced Boolean Processor with Parallel Input

Inventor(s) Jay Bruce Ross

SIPLG (CRDS) Reference No.	Country	Application No. Application Date	Patent No. Issue Date	Priority No. Priority Date	Expiration Date	Status/Remarks
CROSS2100-3 (CSI0_____)	US	10/871,858 06/18/04		09/684,761 09/03/99		Abandoned.

CROSSROADS-FORTRESS Status Report as of August 2, 2017

Docket #	Title	Application No	Application Date	Grant No	Grant Date	Inventors	Status
CROSS1100-1	Error Detection and Recovery for Sequential Access Devices in a Fibre Channel Protocol	09/087,684	05/29/98	6,148,421	11/14/00	Smith Brian R., Hoese Geoffrey B., Wanamaker Neil T., Reynolds Robert A.	Granted: 11.5 Year Tax Paid: 05/02/12
CROSS1100-AU	Error Detection and Recovery for Sequential Access Devices in a Fibre Channel Protocol	77088/98	05/29/98	737205	11/22/01	Smith Brian R., Hoese Geoffrey B., Wanamaker Neil T., Reynolds Robert A.	Granted 05/30/17: Instr. to FA to pay Annuity
CROSS1140	Fibre Channel to SCSI Addressing Method and System	09/019,448	02/05/98	6,041,381	03/21/00	Hoese Geoffrey	Granted 11.5 Year Tax Paid 09/12/11
CROSS1160	System for Segmenting a Fibre Channel Arbitrated Loop to a Plurality of Logical Sub-Loops Using Segmentation Router as a Master to Cause the Segmentation of Physical Addresses	09/076,244	05/12/98	6,314,488	11/06/01	Smith Brian R.	Granted 11.5 Year Tax Paid 05/01/13
CROSS1200	Method and System for Managing I/O Transmissions in a Fibre Channel Network After a Break in Communication	09/153,576	09/15/98	6,643,693	11/04/03	Arroyo Keith M., Reynolds Robert A.	Granted 11.5 Year Tax Paid 04/01/15
CROSS1220	Method and System for Maintaining Reserve Command Relationships in a Fibre Channel Network	09/251,759	02/18/99	6,138,161	10/24/00	Arroyo Keith M., Wilson Stephen K., Reynolds Robert A.	Granted 11.5 Year Tax Paid 04/04/12
CROSS1240-1	Method and System for Multi-Initiator Support to Streaming Devices in a Fibre Channel Network	10/794,975	03/05/04	7,254,329	08/07/07	Arroyo Keith M., Reynolds Robert A.	Granted: 11.5 Year Tax Due 02/07/19
CROSS1260	System and Method for Resolving Fibre Channel Device Addresses on a Network Using the Device's Fully Qualified Domain Name	09/158,991	09/23/98	6,199,112	03/06/01	Wilson Stephen K.	Granted 11.5 Year Tax Paid 08/30/12
CROSS1280	System and Method for Providing a Proxy FARP for Legacy Storage Devices	09/159,163	09/23/98	6,151,331	11/21/00	Wilson Stephen K.	Granted 11.5 Year Tax Paid 05/02/12
CROSS1290	Streaming Method and System for Fiber Channel Network Devices	09/259,160	02/26/99	6,341,315	01/22/02	Arroyo Keith M., Wilson Stephen K.	Granted 11.5 Year Tax Paid 07/08/13
CROSS1290-2	Streaming Method for Fibre Channel Network Devices	10/914,574	08/09/04	8,271,673	09/18/12	Arroyo Keith M., Wilson Stephen K.	Granted: 7.5 Year Tax Due: 03/18/20

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Docket #	Title	Application No	Application Date	Grant No	Grant Date	Inventors	Status
CROSS1290-3	Streaming Method and System for Fibre Channel Network Devices	13/312,068	12/06/11	8,904,023	12/02/14	Arroyo Keith M., Wilson Stephen K.	Granted: 3.5 Year Tax Due: 06/02/18
CROSS1290-4	Streaming Methods and Systems for Network Devices	14/519,977	10/21/14	9,455,938	09/27/16	Arroyo Keith M., Wilson Stephen K.	Granted: No Maint Fees will be due. Patent will expire before first maint fee due date due to priority claim.
CROSS1290-5	Streaming Methods and Systems for Network Devices	15/251,237	08/30/16			Arroyo Keith M., Wilson Stephen K.	Pending: Awaiting First OA
CROSS1300	Method and System for Persistent Unit Attention in a Fibre Channel Storage Router	09/725,353	11/29/00	6,718,402	04/06/04	Arroyo Keith	Granted: 11.5 Year Tax Paid 09/23/15
CROSS1310	Method and System for Un-tagged Command Queuing	09/345,153	06/30/99	6,205,141	03/20/01	Arroyo Keith M.	Granted 11.5 Year Tax Paid 09/04/12
CROSS1330-1	System for Mapping Addresses of SCSI Devices Between Plurality of SANS that can Dynamically Map SCSI Device Addresses Across a SAN Extender	09/710,213	11/10/00	6,848,007	01/25/05	Reynolds Robert, Haechten John B., Smeltzer Kenneth D.	Granted 11.5 Year Tax Paid: 07/18/16
CROSS1340-1	Encapsulation Protocol for Linking Storage Area Networks Over a Packet-Based Network	09/709,807	11/10/00	6,965,934	11/15/05	Reynolds Robert A., Haechten John B., Smeltzer Kenneth D.	Granted: 11.5 Year Tax Due: 11/15/17 w/surcharge
CROSS1350-1	Method and System for Decreasing Routing Latency for Switching Platforms with Variable Configuration	09/707,443	11/07/00	6,922,391	07/26/05	Mao Andy, King Steve, Bucht Tom	Granted: 11.5 Year Tax Paid: 01/23/17
CROSS1350-2	Method and System for Decreasing Routing Latency for Switching Platforms with Variable Configuration	11/091,151	03/28/05	7,508,756	03/24/09	Mao Andy, King Steve, Bucht Tom	Granted: 7.5 Year Tax Due: 09/24/16
CROSS1350-3	Method and System for Decreasing Routing Latency for Switching Platforms with Variable Configuration	12/409,331	03/23/09	7,912,053	03/22/11	Mao Andy, King Steve, Bucht Tom	Granted: 7.5 Year Tax Due: 09/22/18
CROSS1360-1	Method of Routing HTTP and FTP Services Across Heterogeneous Networks	09/707,428	11/07/00	6,970,942	11/29/05	King Steve, Stillwell Paul M., Mao Chiayin	Granted 11.5 Year Tax Due: 11/29/17 w/surcharge

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Docket #	Title	Application No	Application Date	Grant No	Grant Date	Inventors	Status
CROSS1370-1	A Method and System for Decoding 8-Bit/10-Bit Data Using Limited Width Decoders	09/662,075	09/14/00	6,392,570	05/21/02	Bueht Tom	Granted 11.5 Year Tax Paid 09/26/13
CROSS1390-1	System and Method for Controlling Readout of Frame Data From Buffer	09/695,758	10/24/00	6,668,290	12/23/03	Nelson Michael A.	Granted 11.5 Year Tax Paid: 04/01/15
CROSS1400-1	System and Method for Storing Frame Header Data	09/695,755	10/24/00	7,333,489	02/19/08	Nelson Michael A., Bucht Tom	Granted: 11.5 Year Tax Due: 08/19/19
CROSS1410-1	System and Method for Jitter Compensation in Data Transfers	09/695,754	10/24/00	6,977,897	12/20/05	Nelson Michael A., Bucht Tom	Granted: 11.5 Year Tax Due: 12/20/17 w/surcharge
CROSS1420-1	High Speed Dynamic Multi-Lane Deskwer	09/682,665	10/03/01	6,654,824	11/25/03	Vila Diego Fernando, Mateus Marcus Sebastian, Umberhocker Richard B.	Granted 11.5 Year Tax Paid: 04/01/15
CROSS1430-1	HHigh Speed Coordinated Multi-Channel Elastic Buffer	09/682,673	10/04/01	6,757,348	06/29/04	Vila Diego Fernando, Mateus Marcus Sebastian, Umberhocker Richard B.	Granted: 11.5 Year Tax Paid: 09/23/15
CROSS1450	Network Analyzer/Sniffer with Multiple Protocol Capabilities	09/681,535	04/24/01	6,894,979	05/17/05	LEE DAVID G.	Granted: 11.5 Year Tax Paid 09/29/16
CROSS1470-1	Method and System for Reconciling Extended Copy Command Target Descriptor Lengths	10/085,962	02/28/02	6,650,656	11/18/03	Tyndall John	Granted 11.5 Year Tax Paid: 04/01/15
CROSS1470-2	Method and System for Overlapping Data Flow within a SCSI Extended Copy Command	10/085,918	02/28/02	6,704,809	03/09/04	Tyndall John	Granted: 11.5 Year Tax Paid: 09/04/15
CROSS1490	System and Method for Inquiry Caching	10/064,080	06/10/02	7,603,449	10/13/09	CULP Bradfred W., Dale Stephen G.	Granted: 7.5 Year Tax Due: 10/13/17 w/surcharge
CROSS1490-1	System and Method for Inquiry Caching in a Storage Area Network	11/855,348	09/14/07	8,341,211	12/25/12	CULP Bradfred W., Dale Stephen G.	Granted: 7.5 Year Tax Due: 06/25/20
CROSS1490-2	System and Method for Servicing Inquiry Commands about Target Devices in Storage Area Network	12/403,971	03/13/09	7,904,539	03/08/11	CULP Bradfred W., Dale Stephen G.	Granted: 7.5 Year Tax Due: 09/08/18
CROSS1490-3	System and Method for Inquiry Caching in a Storage Area Network	13/042,209	03/07/11	8,543,643	09/24/13	CULP Bradfred W., Dale Stephen G.	Granted: 7.5 Year Tax Due: 03/24/21

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Docket #	Title	Application No	Application Date	Grant No	Grant Date	Inventors	Status
CROSS1490-4	System and Method for Caching Inquiry Data About Sequential Access Devices	13/685,539	11/26/12	8,655,977	02/18/14	CULP Bradfred W., Dale Stephen G.	Granted: 3.5 Year Tax Due: 02/18/18 w/surcharge
CROSS1520	Pseudorandom Data Pattern Verifier with Automatic Synchronization	10/631,173	07/31/03	7,424,075	09/09/08	Vila Diego F., Mateus Marcus S.	Granted: 11.5 Year Tax Due: 03/09/20
CROSS1530	Mechanism for Enabling Enhanced Fibre Channel Error Recovery Across Redundant Paths Using SCSI Level Commands	10/064,436	07/12/02	7,024,591	04/04/06	Tyndall John F., Moody II William H.	Granted: 11.5 Year Tax Due: 04/04/18 w/surcharge
CROSS1530-1	Mechanism for Enabling Enhanced Fibre Channel Error Recovery Across Redundant Paths Using SCSI Level Commands	11/218,134	09/01/05	7,350,114	03/25/08	Moody Bill, Tyndall John F.	Granted: 11.5 Year Tax Due: 09/25/19
CROSS1540	Partitioned Library	10/065,329	10/04/02	6,804,753	10/12/04	Tyndall John F., Moody II William H.	Granted: 11.5 Year Tax Paid 03/07/16
CROSS1550	Method for Dynamic Control of Concurrent Extended Copy Tasks	10/293,431	11/13/02	6,704,836	03/09/04	Griswold Robert M., Justiss Steven A.	Granted: 11.5 Year Tax Paid: 09/04/15
CROSS1560	System and Method for Maintaining and Reporting a Log of Multi-Threaded Backups	10/636,042	08/07/03	7,251,708	07/31/07	Sims Robert C., Justiss Steven A.	Granted: 11.5 Year Tax Due: 01/31/19
CROSS1560-1	System and Method for Processing Multiple Concurrent Extended Copy Commands	11/020,960	12/22/04	7,552,294	06/23/09	Justiss Steven A.	Granted: 11.5 Year Tax Due: 12/23/20
CROSS1560-2	System and Method for Message and Error Reporting for Multiple Concurrent Extended Copy Commands to a Single Destination Device	11/020,971	12/22/04	7,447,852	11/04/08	Justiss Steven A.	Granted: 11.5 Year Tax Due: 05/04/20
CROSS1570-1	System and Method of Supporting Kernel Functionality	10/647,050	08/22/03	7,448,049	11/04/08	Xing Lisheng "Lee"	Granted 11.5 Year Tax Due: 05/04/20
CROSS1580-1	System and Method for Controlling Access to Multiple Physical Media Libraries	10/704,265	11/07/03	7,505,980	03/17/09	Tyndall John F., Moody II William H.	Granted: 11.5 Year Tax Due: 09/17/20

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Docket #	Title	Application No	Application Date	Grant No	Grant Date	Inventors	Status
CROSS1580-2	Logical Media Library Robotics Controller While Actually Operating Multiple Physical Media Library Robotics Controllers in an Aggregated Media Library	10/703,965	11/07/03	7,752,384	07/06/10	Moody II William H., Sims Robert C.	Granted: 7.5 Year Tax Due: 01/06/18
CROSS1580-3	System and Method for Controlling Access to Multiple Physical Media Libraries	12/391,034	02/23/09	7,971,019	06/28/11	Tyndall John F., Moody II William H.	Granted: 7.5 Year Tax Due: 12/28/18
CROSS1580-4	System and Method for Controlling Access to Media Libraries	12/795,497	06/07/10	7,941,597	05/10/11	Moody II William H., Sims Robert C.	Granted: 7.5 Year Tax Due: 11/10/18
CROSS1620	System and Method for Device Management	11/021,932	12/22/04	7,827,261	11/02/10	Hill III Joseph M., Griswold Robert M.	Granted: 7.5 Year Tax Due: 05/02/18
CROSS1620-1	System and Method for Device Management	12/915,977	10/29/10	8,156,215	04/10/12	Hill III Joseph M., Griswold Robert M.	Granted: 7.5 Year Tax Due: 10/10/19
CROSS1630	Interface Device and Method for Command Processing	10/929,220	08/30/04	7,711,871	05/04/10	Haechten John B., Tyndall John F.	Granted: 7.5 Year Tax Due: 05/04/18 w/surcharge
CROSS1630-1	Interface Device and Method for Command Processing	12/771,403	04/30/10	7,899,945	03/01/11	Haechten John B., Tyndall John F.	Granted: 7.5 Year Tax Due: 09/01/18
CROSS1640	Consolidation of Unit Attentions	10/782,136	02/19/04	7,127,572	10/24/06	Whittington Daniel, Tyndall John, Gao LinLin	Granted: 11.5 Year Tax Due: 04/24/18
CROSS1670-1	Method and System for Persistent Reservation Handling in a Multi-Initiator Environment	11/365,399	03/01/06	7,716,406	05/11/10	Tyndall John F.	Granted: 7.5 Year Tax Due: 05/11/18 w/surcharge
CROSS1680	System and Method for Processing Commands	11/004,297	12/03/04	7,500,047	03/03/09	Tyndall John, Gao LinLin	Granted: 11.5 Year Tax Due: 09/03/20
CROSS1710	System and Method for Centralized Partitioned Library Mapping	10/880,360	06/29/04	7,428,613	09/23/08	Justiss Steven A., Gao LinLin, Tyndall John F.	Granted: 11.5 Year Tax Due: 03/23/20
CROSS1720	System and Method for Distributed Partitioned Library Mapping	10/880,162	06/29/04	7,454,565	11/18/08	Justiss Steven A., Gao LinLin, Tyndall John F.	Granted: 11.5 Year Tax Due: 05/18/20
CROSS1720-1	System and Method for Distributed Partitioned Library Mapping	12/237,969	09/25/08	7,752,416	07/06/10	Gao Lin, Justiss Steven A., Gao LinLin, Tyndall John F.	Granted: 7.5 Year Tax Due: 01/06/18
CROSS1720-2	System and Method for Distributed Partitioned Library Mapping	12/762,066	04/16/10	7,975,124	07/05/11	Gao Lin, Justiss Steven A., Gao LinLin, Tyndall John F.	Granted: 7.5 Year Tax Due: 01/05/19

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CROSS1760	Method and System for Distributing Management Information Over Power Networks	11/043,327	01/26/05	7,327,223	02/05/08	Schlinger Bryan	Granted: 11.5 Year Tax Due: 08/05/19
CROSS1760-1	Method and System for Distributing Management Information Over Power Networks	11/820,265	06/18/07	7,453,348	11/18/08	Schlinger Bryan	Granted: 11.5 Year Tax Due: 05/18/20
CROSS1770-1	Method and System for Coordinating Interoperability Between Devices of Varying Capabilities in a Network	11/044,525	01/27/05	7,310,696	12/18/07	Haechten John B., Dale Stephen G., Tyndall John F.	Granted: 11.5 Year Tax Due: 06/18/19
CROSS1770-2	Method and System for Coordinating Interoperability Between Devices of Varying Functionality in a Network	11/893,285	08/15/07	7,415,564	08/19/08	Haechten John B., Dale Stephen G., Tyndall John F.	Granted: 11.5 Year Tax Due: 02/19/20
CROSS1770-3	Apparatus for Coordinating Interoperability Between Devices of Varying Capabilities in a Network	11/934,446	11/02/07	7,584,318	09/01/09	Haechten John B., Dale Stephen G., Tyndall John F.	Granted: 11.5 Year Tax Due: 03/01/21
CROSS1790-1	System and Method for Command Tracking	11/021,544	12/22/04	7,711,805	05/04/10	Dale Stephen G.	Granted: 7.5 Year Tax Due: 05/04/18 w/surcharge
CROSS1800	Method and System for Presenting Contiguous Element Addresses for a Partitioned Media Library	11/045,443	01/28/05	7,370,173	05/06/08	Justiss Steven A., Gao LinLin, Kramer Alexander	Granted: 11.5 Year Tax Due: 11/06/19
CROSS1810	System and Method for Handling Status Commands Director to a Partitioned Media Library	11/046,019	01/28/05	7,971,006	06/28/11	Justiss Steven A., Gao LinLin	Granted: 7.5 Year Tax Due: 12/28/18
CROSS1820	System and Method for Mode Select Handling for a Partitioned Media Library	11/046,066	01/28/05	7,451,291	11/11/08	Justiss Steven A., Gao LinLin	Granted: 11.5 Year Tax Due: 05/11/20
CROSS1860-1	System and Method for Providing Service Management in a Distributed Database System	11/153,873	06/15/05	7,984,073	07/19/11	Ewing David B., Walker Richard S., Basiago Jack	Granted: 7.5 Year Tax Due: 01/19/19
CROSS1880	Application-Layer Monitoring of Communication Between One or More Database Clients and One or More Database Servers	10/934,887	09/03/04	7,509,330	03/24/09	Ewing David B., Martindale Rick A.	Granted: 11.5 Year Tax Due: 09/24/20

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CROSS1880-1	Application-Layer Monitoring of Communication Between One or More Database Clients and One or More Database Servers	12/359,379	01/26/09	7,895,160	02/22/11	Ewing David B., Martindale Rick A.	Granted: 7.5 Year Tax Due: 08/22/18
CROSS1890	Providing Application-Layer Functionality Between One or More Database Clients and One or More Database Servers	10/933,790	09/03/04	7,529,753	05/05/09	Ewing David B.	Granted: 11.5 Year Tax Due: 11/05/20
CROSS1900	Method and System for Handling Commands Requesting Movement of a Data Storage Medium Between Physical Media Libraries	11/118,167	04/29/05	7,788,413	08/31/10	Justiss Steven A., Kramer Alexander	Granted: 7.5 Year Tax Due: 02/28/18
CROSS1910-1	System and Method for Performing Backup Using Extended Copy Functionality	11/788,650	04/20/07	7,711,913	05/04/10	Moody II William H., Sims Robert C.	Granted: 7.5 Year Tax Due: 05/04/18 w/surcharge
CROSS1920-1	System and Method for Defining and Implementing Policies in a Database System	11/589,333	10/30/06	7,962,513	06/14/11	Boles David A., Young H. Bret, Basiago Jack	Granted: 7.5 Year Tax Due: 12/14/18
CROSS1940	System and Method for Summarizing and Reporting Impact of Database Statements	11/904,605	09/27/07	7,831,621	11/09/10	Banks Kevin R., Kolbly Donovan, Blackmon Matt	Granted: 7.5 Year Tax Due: 05/09/18
CROSS1950	Method and System for Non-Intrusive Monitoring of Library Components	11/801,809	05/11/07	8,832,495	09/09/14	Foster Michael R., Rohner Allen, Tou Patrick S.	Granted: 3.5 Year Tax Due: 03/09/18
CROSS1950-1	Method and System for Non-Intrusive Monitoring of Library Components	14/324,980	07/07/14	8,949,667	02/03/15	Foster Michael R., Rohner Allen, Tou Patrick S.	Granted: 3.5 Year Tax Due: 08/03/18
CROSS1950-2	Method and System for Non-Intrusive Monitoring of Library Components	14/574,077	12/17/14	9,280,410	03/08/16	Foster Michael R., Rohner Allen, Tou Patrick S.	Granted: 3.5 Year Tax Due: 09/08/19
CROSS1950-3	Method and System for Monitoring of Library Components	15/010,954	01/29/16	9,501,348	11/22/16	Foster Michael R., Rohner Allen, Tou Patrick S.	Granted: 3.5 Year Tax Due: 05/22/20
CROSS1950-4	Method and System for Monitoring of Library Components	15/297,907	10/19/16			Foster Michael R., Rohner Allen, Tou Patrick S.	Closed per client instr of 07/12/17
CROSS1960	System and Method for Enabling Encryption	12/025,181	02/04/08	8,250,378	08/21/12	Sims Robert C.	Granted: 7.5 Year Tax Due: 02/21/20
CROSS1980	System and Method for Verifying Paths to a Database	12/051,555	03/19/08	7,908,252	03/15/11	Landt Matthew Eugene, Basiago Jack	Granted: 7.5 Year Tax Due: 09/15/18

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CROSS1990	Media Library Monitoring System and Method	12/024,755	02/01/08	7,908,366	03/15/11	Sims Robert C.	Granted: 7.5 Year Tax Due: 09/15/18
CROSS1990-1	Media Library Monitoring System and Method	13/430,429	03/26/12	8,639,807	01/28/14	Sims Robert C.	Granted: 3.5 Year Tax Due: 01/28/18 w/surcharge
CROSS1990-2	Media Library Monitoring System and Method	13/459,720	04/30/12	8,631,127	01/14/14	Sims Robert C.	Granted: 3.5 Year Tax Due: 01/14/18 w/surcharge
CROSS1990-3	Media Library Monitoring System and Method	14/099,591	12/06/13	9,092,138	07/28/15	Sims Robert C.	Granted: 3.5 Year Tax Due: 01/28/19
CROSS2010	System and Method for Archive Verification	12/025,436	02/04/08	8,645,328	02/04/14	Sims Robert C.	Granted: 3.5 Year Tax Due: 02/04/18 w/surcharge
CROSS2010-1	System and Method for Archive Verification	14/144,067	12/30/13			Sims Robert C.	Closed per client instr of 06/07/17
CROSS2020	System and Method of Network Diagnosis	12/025,322	02/04/08	7,974,215	07/05/11	Sims Robert C.	Granted: 7.5 Year Tax Due: 01/05/19
CROSS2020-1	System and Method of Network Diagnosis	13/091,877	04/21/11	8,644,185	02/04/14	Sims Robert C.	Granted: 3.5 Year Tax Due: 02/04/18 w/surcharge
CROSS2020-2	System and Method of Network Diagnosis	14/144,077	12/30/13	9,699,056	07/04/17	Sims Robert C.	Granted: 3.5 Year Tax Due: 01/04/21
CROSS2020-3	System and Method of Network Diagnosis	15/000,888	01/19/16			Sims Robert C.	Closed per client instr of 07/12/17
CROSS2030	Data Files Systems with Hierarchical Ranking for Different Activity Groups	10/387,120	03/11/03	7,185,028	02/27/07	Lechner Ulrich	Granted: 11.5 Year Tax Due: 08/27/18
CROSS2030-1	Data Files Systems with Hierarchical Ranking for Different Activity Groups	11/675,780	02/16/07	7,584,190	09/01/09	Lechner Ulrich	Granted: 11.5 Year Tax Due: 03/01/21
CROSS2030/DE	Data Files Systems with Hierarchical Ranking for Different Activity Groups	102 11 606	03/12/02	102 11 606 B4	06/08/17	Lechner Ulrich	Granted Annuity Due: 03/12/18
CROSS2040	Method for Configuring Centralized Encryption Policies for Devices	12/115,218	05/05/08	8,601,258	12/03/13	Tou Patrick S., DeLine Peter Anthony	Granted: 3.5 Year Tax Due: 12/03/17 w/surcharge
CROSS2050	Determining, Displaying and Using Tape Drive Session Information	12/025,300	02/04/08	9,015,005	04/21/15	Stripling Jeffrey Ricks	Granted: 3.5 Year Tax Due: 10/21/18

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CROSS2050-1	Determining, Displaying and Using Tape Drive Session Information	14/640,072	03/06/15			Stripling Jeffrey Ricks	Closed per client instr of 07/12/17
CROSS2060	System and Method for Adjusting to Drive Specific Criteria	12/201,956	08/29/08	8,555,053	10/08/13	Vitalo Michael, Gosha Michael	Granted: 3.5 Year Tax Due: 10/08/17 w/surcharge
CROSS2110-1	System and Method for Eliminating Performance Impact of Information Collection from Media Drives	12/888,954	09/23/10			Bianchi Brian J., Justiss Steven A.	Pending: Resp to Final OA Filed 05/22/17 as an RCE.
CROSS2120	System and Method for Identifying Failing Drives or Media in Media Library	12/692,403	01/22/10	8,650,241	02/11/14	Bianchi Brian J., Sims Robert C., Moody II William H.	Granted: 3.5 Year Tax Due: 02/11/18 w/surcharge
CROSS2120-1	System and Method for Identifying Failing Drives or Media in Media Library	14/143,046	12/30/13	9,058,109	06/16/15	Bianchi Brian J., Sims Robert C., Moody II William H.	Granted: 3.5. Year Tax Due: 12/16/18
CROSS2130-1	System and Method for Archive Verification According to Policies	12/861,609	08/23/10	8,843,787	09/23/14	Stripling Jeffrey Ricks, Foster Michael R.	Granted: 3.5 Year Tax Due: 03/23/18
CROSS2130-2	System and Method for Archive Verification According to Policies	14/464,034	08/20/14	9,081,730	07/14/15	Stripling Jeffrey Ricks, Foster Michael R.	Granted: 3.5 Year Tax Due: 01/14/19
CROSS2130-3	System and Method for Archive Verification According to Policies	14/737,007	06/11/15	9,317,358	04/19/16	Stripling Jeffrey Ricks, Foster Michael R.	Granted: 3.5 Year Tax Due: 10/19/19
CROSS2130-4	System and Method for Archive Verification According to Policies	15/067,004	03/10/16			Stripling Jeffrey Ricks, Foster Michael R.	Pending: Awaiting First OA
CROSS2140	System and Method for Archive Verification Using Multiple Attempts	12/861,612	08/23/10	8,631,281	01/14/14	Stripling Jeffrey Ricks, Sims Robert C.	Granted: 3.5 Year Tax Due: 01/14/18 w/surcharge
CROSS2140-1	System and Method for Archive Verification Using Multiple Attempts	14/092,729	11/27/13	9,442,795	09/13/16	Stripling Jeffrey Ricks, Sims Robert C.	Granted: 3.5 Year Tax Due: 03/13/2020
CROSS2140-2	System and Method for Archive Verification Using Multiple Attempts	15/050,121	02/22/16			Stripling Jeffrey Ricks, Sims Robert C.	Pending: Awaiting First OA
CROSS2150	System and Method for Implementing a Networked File System Utilizing a Media Library	13/109,192	05/17/11	8,527,561	09/03/13	Sims Robert C., Moody II William H.	Granted: 7.5 Year Tax Due: 03/03/21
CROSS2150-1	System and Method for Implementing a Networked File System Utilizing a Media Library	13/950,075	07/24/13			Sims Robert C., Moody II William H.	Pending: Resp to OA filed: 06/02/17

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CROSS2160	System, Method and Computer Program Product for Optimization of Tape Performance	13/267,758	10/06/11	8,817,411	08/26/14	Sims Robert C., Moody II William H., Bianchi Brian J.	Granted: 3.5 Year Tax Due: 02/26/18
CROSS2160-1	System, Method and Computer Program Product for Optimization of Tape Performance	14/448,647	07/31/14	9,013,823	04/21/15	Sims Robert C., Moody II William H., Bianchi Brian J.	Granted: 3.5 Year Tax Due: 10/21/18
CROSS2160-2	System, Method and Computer Program Product for Optimization of Tape Performance	14/671,849	03/27/15	9,128,619	09/08/15	Sims Robert C., Moody II William H., Bianchi Brian J.	Granted: 3.5 Year Tax Due: 03/08/19
CROSS2170	System, Method and Computer Program Product for Optimization of Tape Performance Using Distributed File Copies	13/267,763	10/06/11	8,566,517	10/22/13	Sims Robert C., Moody II William H.	Granted: 3.5 Year Tax Due: 10/22/17 w/surcharge
CROSS2170-1	System, Method and Computer Program Product for Optimization of Tape Performance Using Distributed File Copies	14/031,924	09/19/13	8,856,437	10/07/14	Sims Robert C., Moody II William H.	Granted: 3.5 Year Tax Due: 04/07/18
CROSS2180	System, Method and Computer Program Product for Trickleing Data to a Host	13/267,665	10/06/11			Sims Robert C., Moody II William H., Bianchi Brian J.	Pending: Resp to OA Due: 10/25/17
CROSS2190	System, Method and Computer Program Product for Retrieving a File After an Error	13/267,743	10/06/11			Bianchi Brian J.	Closed per client instr of 06/07/17
CROSS2200	System, Method and Computer Program Product for a Self-Describing Tape that Maintains Metadata of a Non-Tape File System	13/451,812	04/20/12	8,832,365	09/09/14	Sims Robert C., Moody II William H., Bianchi Brian J., Young Charles, McElroy Gary, Stripling Jeffrey Ricks	Granted: 3.5 Year Tax Due: 03/09/18
CROSS2200-1	System, Method and Computer Program Product for a Self-Describing Tape that Maintains Metadata of a Non-Tape File System	14/444,614	07/28/14	9,323,776	04/26/14	Sims Robert C., Moody II William H., Bianchi Brian J., Young Charles, McElroy Gary, Stripling Jeffrey Ricks	Granted: 3.5 Year Tax Due: 10/26/19

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Docket #	Title	Application No	Application Date	Grant No	Grant Date	Inventors	Status
CROSS2210-1	System and Method for Enhancing Data Reliability and Recovering from Media Errors	13/847,965	03/20/13			Moody II William H., Sims Robert C., Bianchi Brian J., DeLine Peter Anthony, Roychowdhury Debasmita, Mosely Patrick E., Matchefts Marco James, Little Christopher Brian, Hubbard Amanda T.	Pending: Resp to OA Filed 05/02/17
CROSS2220	System, Method and Computer Program Product for Host System LTFs Auto-Adaptation	13/531,310	06/22/12	9,141,542	09/22/15	Justiss Steven A., DeLine Peter Anthony, Moody II William H.	Granted: 3.5 Year Tax Due: 03/22/19
CROSS2230	System, Method and Computer Program Product for Controlling File Migration in Archiving Systems	13/532,512	06/25/12	9,031,912	05/12/15	Rogers Austin, Moody II William H., DeLine Peter Anthony	Granted: 3.5 Year Tax Due: 11/12/18
CROSS2230-1	System, Method and Computer Program Product for Controlling File Migration in Archiving Systems	14/687,492	04/15/15			Rogers Austin, Moody II William H., DeLine Peter Anthony	Closed Per Client Instr. 07/26/17
CROSS2240	System, Method and Computer Program Product for Synchronizing Data Written to Tape Including Writing an Index into a Data Partition so that Data can be Recovered in Case of Failure	13/532,518	06/25/12	8,954,663	02/10/15	Sims Robert C., Moody II William H., Klein Andrew Glen	Granted: 3.5 Year Tax Due: 08/10/18
CROSS2240-1	System, Method and Computer Program Product for Synchronizing Data Written to Tape Including Writing an Index into a Data Partition	14/591,136	01/07/15	9,235,347	01/12/16	Sims Robert C., Moody II William H., Klein Andrew Glen	Granted: 3.5 Year Tax Due: 07/12/19
CROSS2240-2	System, Method and Computer Program Product for Synchronizing Data Written to Tape Including Writing an Index into a Data Partition	14/964,942	12/10/15	9,606,740	03/28/17	Sims Robert C., Moody II William H., Klein Andrew Glen	Granted: 3.5 Year Tax Due: 09/28/20
CROSS2250	System, Method and Computer Program Product for Recovering Stub Files	13/485,060	05/31/12	8,977,827	03/10/15	Sims Robert C., Moody II William H., Bianchi Brian J.	Granted: 3.5 Year Tax Due: 09/10/18

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CROSS2250-1	System, Method and Computer Program Product for Recovering Stub Files	14/593,657	01/09/15			Sims Robert C., Moody II William H., Bianchi Brian J.	Allowed: Issue Fee Paid 08/01/17
CROSS2250-2	System, Method and Computer Program Product for Recovering Stub Files	15/299,210	10/20/16			Sims Robert C., Moody II William H., Bianchi Brian J.	Pending: Resp to First OA Due: 09/29/17
CROSS2260	System, Method and Computer Program Product for Partially Synchronous and Partially Asynchronous Mounts/Unmounts in a Media Library	13/614,857	09/13/12	8,762,330	06/24/14	Kick Damien	Granted: 3.5 Year Tax Due: 12/24/17
CROSS2260-1	System, Method and Computer Program Product for Partially Synchronous and Partially Asynchronous Mounts/Unmounts in a Media Library	14/271,130	05/06/14	9,087,073	07/21/15	Kick Damien	Granted: 3.5 Year Tax Due: 01/21/19
CROSS2260-2	System, Method and Computer Program Product for Partially Synchronous and Partially Asynchronous Mounts/Unmounts in a Media Library	14/741,220	06/16/15			Kick Damien	Pending Resp to Final OA Due: 08/15/17
CROSS2270	System and Method for Using a Memory Buffer to Stream Data from a Tape to Multiple Clients	13/459,531	04/30/12	9,563,365	02/07/17	Lenox Michael Eric	Granted: 3.5 Year Tax Due: 08/07/20
CROSS2270-1	System and Method for Using a Memory Buffer to Stream Data from a Tape to Multiple Clients	15/386,258	12/21/16			Lenox Michael Eric	Pending: Awaiting First OA
CROSS2280	System, Method and Computer Program Product for Tamper Protection in a Data Storage System	13/480,781	05/25/12	8,756,687	06/17/14	Klein Andrew Glen, DeLine Peter Anthony, Moody II William H.	Granted: 3.5 Year Tax Due: 06/17/18 w/surcharge
CROSS2280-1	System, Method and Computer Program Product for Tamper Protection in a Data Storage System	14/271,207	05/06/14	9,170,745	10/27/15	Klein Andrew Glen, DeLine Peter Anthony, Moody II William H.	Granted: 3.5 Year Tax Due: 04/27/19

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CROSS2280-2	System, Method and Computer Program Product for Tamper Protection in a Data Storage System	14/861,879	09/22/15			Klein Andrew Glen, DeLine Peter Anthony, Moody II William H.	Pending: Awaiting First OA