

TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

ETAS ID: TM632240

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST

CONVEYING PARTY DATA

Name	Formerly	Execution Date	Entity Type
ARCSERVE (USA) LLC		03/16/2021	Limited Liability Company: DELAWARE
STORAGECRAFT TECHNOLOGY LLC		03/16/2021	Limited Liability Company: DELAWARE
ZETTA, LLC		03/16/2021	Limited Liability Company: DELAWARE

RECEIVING PARTY DATA

Name:	Monroe Capital Management Advisors, LLC, as Collateral Agent
Street Address:	311 South Wacker Drive, Suite 6400
City:	Chicago
State/Country:	ILLINOIS
Postal Code:	60606
Entity Type:	Limited Liability Company: DELAWARE

PROPERTY NUMBERS Total: 33

Property Type	Number	Word Mark
Registration Number:	4299210	EXABLOX
Registration Number:	4299211	EXABLOX
Registration Number:	4302589	EXABLOX
Registration Number:	3850850	HEADSTART RESTORE
Registration Number:	4038001	HEADSTART RESTORE
Registration Number:	4259396	INTELLIGENTFTP
Registration Number:	4571706	ONEBLOX
Registration Number:	5254199	ONEBLOX
Registration Number:	5194552	ONESYSTEM
Registration Number:	4439733	ONESYSTEM
Registration Number:	5807996	ONEXAFE
Registration Number:	6130798	ONEXAFE
Registration Number:	4226900	SHADOWCONTROL
Registration Number:	3856613	SHADOWPROTECT
Registration Number:	3950931	SHADOWPROTECT

OP \$840.00 4299210

Property Type	Number	Word Mark
Registration Number:	5148055	SHADOWSAFE
Registration Number:	4702720	SHADOWSNAP
Registration Number:	4276348	SHADOWSTREAM
Registration Number:	6114045	SHADOWXAFE
Registration Number:	6119453	SHADOWXAFE
Registration Number:	4306211	SMARTONE
Registration Number:	4299053	SMARTONE
Registration Number:	3856611	STORAGECRAFT
Registration Number:	4382747	STORAGECRAFT
Registration Number:	4158705	STORAGECRAFT
Registration Number:	3950774	STORAGECRAFT
Registration Number:	5210392	S STORAGE CRAFT
Registration Number:	5168027	S STORAGECRAFT
Serial Number:	90460735	ARCSERVE
Serial Number:	87893452	SCT
Serial Number:	87893426	SCT
Serial Number:	87893480	SCT
Serial Number:	87893589	STRATOXAFE

CORRESPONDENCE DATA

Fax Number:

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: 212-381-6532

Email: alanagramer@paulhastings.com

Correspondent Name: Alana Gramer

Address Line 1: 200 Park Avenue

Address Line 2: Paul Hastings LLP

Address Line 4: New York, NEW YORK 10166

ATTORNEY DOCKET NUMBER:	1341144 TM IPSA
NAME OF SUBMITTER:	Alana Gramer
SIGNATURE:	/Alana Gramer/
DATE SIGNED:	03/16/2021

Total Attachments: 23

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INTELLECTUAL PROPERTY SECURITY AGREEMENT

This **INTELLECTUAL PROPERTY SECURITY AGREEMENT**, dated as of March 16, 2021 (as amended, restated, amended and restated, supplemented or otherwise modified or replaced from time to time, this “IP Security Agreement”), is made by each of the signatories hereto (collectively, the “Grantors”) in favor of **MONROE CAPITAL MANAGEMENT ADVISORS, LLC**, as collateral agent (together with its successors in such capacity, the “Collateral Agent”) for the Secured Parties (as defined in the Credit Agreement referred to below).

RECITALS:

WHEREAS, **ARCSTOR PARENT LLC**, a Delaware limited liability company (“Holdings”) and **ARCSTOR MIDCO LLC**, a Delaware limited liability company (the “Borrower”) have entered into the Credit Agreement dated as of March 16, 2021 (as amended, restated, amended and restated, supplemented or otherwise modified or replaced from time to time, the “Credit Agreement”), with the Lenders party thereto, **BANK HAPOALIM B.M.**, as RCF Agent, and the Administrative Agent. Capitalized terms used and not defined herein have the meanings given such terms in the Credit Agreement.

WHEREAS, it is a condition precedent to the obligation of the Lenders to make their respective extensions of credit to the Borrower under the Credit Agreement that the Grantors shall have executed and delivered that certain Guarantee and Collateral Agreement dated as of March 16, 2021 in favor of the Administrative Agent (as amended, restated, amended and restated, supplemented or otherwise modified or replaced from time to time, the “Guarantee and Collateral Agreement”).

WHEREAS, under the terms of the Guarantee and Collateral Agreement, the Grantors have granted to the Collateral Agent, for the benefit of the Secured Parties, a security interest in all of the Grantors’ right, title, and interest in and to certain Collateral, including certain of their Copyrights, Trademarks and Patents and have agreed as a condition thereof to execute this IP Security Agreement with respect to certain of their Copyrights, Trademarks and Patents in order to record the security interests granted therein with the United States Copyright Office or United States Patent and Trademark Office, as applicable (or any successor office or other applicable government registry).

NOW, THEREFORE, in consideration of the above premises, the Grantors hereby agree with the Collateral Agent, for the benefit of the Secured Parties, as follows:

SECTION 1 **Grant of Security.** Each Grantor hereby grants to the Collateral Agent, for the benefit of the Secured Parties, a security interest in all of such Grantor’s right, title and interest in and to the following (the “IP Collateral”), as collateral security for the prompt and complete payment and performance when due (whether at the stated maturity, by acceleration or otherwise) of such Grantor’s Obligations (as defined in the Guarantee and Collateral Agreement):

(a) (i) all United States and foreign copyrights, whether or not the underlying works of authorship have been published and whether as author, assignee, transferee or otherwise, including but not limited to copyrights in software and databases, all Mask Works (as defined in 17 U.S.C. 901 of the U.S. Copyright Act) and all works of authorship, all right, title and interest to make and exploit all derivative works based on or adopted from works covered by such copyrights, and all copyright registrations, copyright applications, mask works registrations and mask works applications, and any renewals or extensions thereof, including each registration and application identified in Schedule 1, and (ii) the rights to print, publish and distribute any of the foregoing (“Copyrights”);

(b) all Copyright Licenses (as defined in the Guarantee and Collateral Agreement), to the extent such Grantor is not the granting party, including any of the foregoing identified in Schedule 1;

(c) (i) the right to sue or otherwise recover for any and all past, present and future Infringements (as defined in the Guarantee and Collateral Agreement) and misappropriations of any of the property described in (a) and (b) above, and (ii) all income, royalties, damages and other payments now and hereafter due and/or payable with respect to any of the property described in (a) and (b) above (the items described in (a), (b) and (c), collectively, the “Copyright Collateral”);

(d) (i) all United States, state and foreign trademarks, service marks, trade names, corporate names, company names, business names, fictitious business names, trade dress, trade styles, logos, or other indicia of origin or source identification, Internet domain names, trademark and service mark registrations, designs and general intangibles of like nature and applications for trademark or service mark registrations and any renewals thereof, including each registration and application identified in Schedule 2 (but excluding in all cases all intent-to-use United States trademark applications for which an amendment to allege use or statement of use has not been filed under 15 U.S.C. § 1051(c) or 15 U.S.C. § 1051(d), respectively, or if filed, has not been deemed in conformance with 15 U.S.C. § 1051(a) or examined and accepted, respectively, by the United States Patent and Trademark Office provided, that upon such filing and acceptance, such intent-to-use applications shall be included in the definition of Trademarks) and (ii) the goodwill of the business connected with the use of, and symbolized by, each of the above (collectively, the “Trademarks”);

(e) all Trademark Licenses (as defined in the Guarantee and Collateral Agreement), to the extent such Grantor is not the granting party, including any of the foregoing identified in Schedule 2;

(f) (i) the right to sue or otherwise recover for any and all past, present and future Infringements (as defined in the Guarantee and Collateral Agreement) and misappropriations of any of the property described in (d) and (e) above, and (ii) all income, royalties, damages and other payments now and hereafter due and/or payable with respect to any of the property described in (d) and (e) above (items described in clauses (d), (e) and (f), collectively, the “Trademark Collateral”);

(g) (i) all United States and foreign patents, patent applications and patentable inventions, including each issued patent and patent application identified in Schedule 3, all certificates of invention or similar property rights and all registrations, recordings and pending applications thereof, (ii) all inventions and improvements described and claimed therein and (iii) all reissues, divisions, reexaminations, continuations, continuations-in-part, substitutes, renewals, and extensions thereof, all improvements thereon (collectively, the “Patents”);

(h) all Patent Licenses (as defined in the Guarantee and Collateral Agreement), to the extent such Grantor is not the granting party, including any of the foregoing identified in Schedule 3; and

(i) (i) the right to sue or otherwise recover for any and all past, present and future Infringements (as defined in the Guarantee and Collateral Agreement) and misappropriations of any of the property described in (g) and (h) above, and (ii) all income, royalties, damages and other payments now and hereafter due and/or payable with respect to any of the property described in (g) and (h) above (items described in (f), (g) and (h), collectively, the “Patent Collateral”).

SECTION 2 Excluded Assets. Notwithstanding anything to the contrary in this IP Security Agreement, none of the Excluded Assets shall constitute IP Collateral.

SECTION 3 Recordation. Each Grantor authorizes and requests that the Register of Copyrights and Commissioner of Patents and Trademarks, as applicable, and any other applicable United States government officer record this IP Security Agreement.

SECTION 4 Execution in Counterparts. This IP Security Agreement may be executed in any number of counterparts (including by telecopy or other electronic transmission), each of which when so executed shall be deemed to be an original and all of which taken together shall constitute one and the same agreement.

SECTION 5 GOVERNING LAW, THE PROVISIONS CONCERNING GOVERNING LAW, JURISDICTION, CONSENT TO JURISDICTION AND WAIVER OF JURY TRIAL SET FORTH IN

SECTION 9.11 OF THE GUARANTEE AND COLLATERAL AGREEMENT SHALL APPLY TO THIS IP SECURITY AGREEMENT ARE INCORPORATED HEREIN BY REFERENCE, MUTATIS MUTANDIS.

SECTION 6 Conflict Provision. This IP Security Agreement has been entered into in conjunction with the provisions of the Guarantee and Collateral Agreement and the Credit Agreement. The rights and remedies of each party hereto with respect to the security interest granted herein are without prejudice to, and are in addition to those set forth in the Guarantee and Collateral Agreement and the Credit Agreement, all terms and provisions of which are incorporated herein by reference. In the event that any provisions of this IP Security Agreement are in conflict with the Guarantee and Collateral Agreement or the Credit Agreement, the provisions of the Guarantee and Collateral Agreement or the Credit Agreement, as applicable, shall govern.

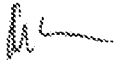
SECTION 7 Intercreditor Arrangements Governs. Notwithstanding anything herein to the contrary, the Liens and security interests granted to the Collateral Agent, for the benefit of the Secured Parties pursuant to this Agreement, and the exercise of any right or remedy by the Collateral Agent and the other Secured Parties hereunder, in each case, may be subject to intercreditor arrangements entered into in accordance with the Credit Agreement. In the event of any conflict or inconsistency between the provisions of such intercreditor arrangements and this Agreement, the terms of the definitive documentation governing any such intercreditor arrangements shall govern.

SECTION 8 Notice. Each party to this IP Security Agreement irrevocably consents to service of process in the manner provided for notices in Section 9.2 of the Guarantee and Collateral Agreement. Nothing in this IP Security Agreement or any other Loan Document will affect the right of any party to this Agreement to serve process in any other manner permitted by law.

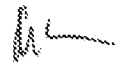
[Signature pages follow.]

IN WITNESS WHEREOF, each of the undersigned has caused this IP Security Agreement to be duly executed and delivered as of the date first above written.

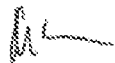
ARCSERVE (USA) LLC,
a Delaware limited liability company


By: _____
Name: Jason Kwon
Title: Vice President and Secretary

STORAGECRAFT TECHNOLOGY LLC,
a Delaware limited liability company
*(formerly known as STORAGECRAFT
TECHNOLOGY CORPORATION, a Delaware
corporation)*


By: _____
Name: Jason Kwon
Title: Vice President and Secretary

ZETTA, LLC,
a Delaware limited liability company


By: _____
Name: Jason Kwon
Title: Vice President and Secretary

**MONROE CAPITAL MANAGEMENT
ADVISORS, LLC, as Collateral Agent**

By: 
Name: Gerry Burrows
Title: Managing Director

[SIGNATURE PAGE TO INTELLECTUAL PROPERTY SECURITY AGREEMENT]

Schedule 1 to IP Security Agreement

COPYRIGHTS

Title	Registration No.	Registration Date	Owner
ARCserve/Solo : version 2.1.	TX0003542909	11-Feb-1993	ARCSERVE (USA) LLC
ARCserve for NetWare user guide, version 6.	TX0004276238	22-May-1996	ARCSERVE (USA) LLC
ARCserve fur NetWare Benutzerhandbuch, version 6.	TX0004329916	28-Jun-1996	ARCSERVE (USA) LLC
ARCserve fur Netware : version 6.	TX0005083866	21-Jun-1996	ARCSERVE (USA) LLC
ARCserve for netware, version 5, Windows edition : study guide.	TX0003720657	11-Jan-1994	ARCSERVE (USA) LLC
ARCserve for NetWare : version 6.0.	TX0004375044	28-Mar-1996	ARCSERVE (USA) LLC
ARCserve for Windows NT.	TX0004445374	08-Aug-1996	ARCSERVE (USA) LLC
ARCserve for Windows NT user guide : version 6 / [written by William Curtin and John Flagg]	TX0004359160	28-Aug-1996	ARCSERVE (USA) LLC
ARCserve pour NetWare manuel de l'utilisateur (version 6)	TX0004326484	28-Jun-1996	ARCSERVE (USA) LLC
ARCserve pour Netware : version 6.	TX0005083865	21-Jun-1996	ARCSERVE (USA) LLC
ARCserve/solo--la solution de sauvegarde.	TX0003580942	11-Feb-1993	ARCSERVE (USA) LLC
ARCserve/solo : the backup solution.	TX0003299721	10-Apr-1992	ARCSERVE (USA) LLC
ARCserve : the backup solution.	TX0002987308	30-Aug-1990	ARCSERVE (USA) LLC
ARCSERVEIT 6.6 backup agent for Microsoft exchange server for Windows NT workgroup edition Microsoft NT 4.0.	TXu000960085	11-Jul-2000	ARCSERVE (USA) LLC
ARCSERVEIT 6.6 backup agent for Microsoft SQL server for Windows NT workgroup edition Microsoft NT 4.0.	TXu000960086	11-Jul-2000	ARCSERVE (USA) LLC
Arcserveit 6.6 backup agent for open files netware.	TXu000975799	28-Aug-2000	ARCSERVE (USA) LLC
ARCSERVEIT 6.6 backup agent for Oracle server for Windows NT workgroup edition Microsoft NT 4.0.	TXu000960087	11-Jul-2000	ARCSERVE (USA) LLC
Arcserveit 6.6 client push agent Novell netware.	TXu000975800	28-Aug-2000	ARCSERVE (USA) LLC

Title	Registration No.	Registration Date	Owner
ARCSERVEIT 6.6 for image option for Windows NT workgroup edition Microsoft NT 4.0.	TXu000960092	11-Jul-2000	ARCSERVE (USA) LLC
Arcserveit 6.6 for Windows NT enterprise edition, international English UNIX.	TXu000975801	28-Aug-2000	ARCSERVE (USA) LLC
ARCSERVEIT 6.6 for Windows NT/UNIX enterprise edition Microsoft NT 4.0.	TXu000960091	11-Jul-2000	ARCSERVE (USA) LLC
ARCSERVEIT 6.6 for Windows NT workgroup edition-international English Microsoft NT 4.0.	TXu000960088	11-Jul-2000	ARCSERVE (USA) LLC
ARCSERVEIT 6.6 for Windows NT workgroup edition Microsoft NT 4.0.	TXu000960089	11-Jul-2000	ARCSERVE (USA) LLC
ARCSERVEIT 6.6 for Windows NT workgroup edition Microsoft NT 4.0.	TXu000960090	11-Jul-2000	ARCSERVE (USA) LLC
ARCSERVEIT 6.6 optical library option for Windows NT workgroup edition Microsoft NT 4.0.	TXu000960093	11-Jul-2000	ARCSERVE (USA) LLC
Arcserveit 6.6 tape library changer option Novell netware.	TXu000970973	28-Aug-2000	ARCSERVE (USA) LLC
ARCSERVEIT 6.6 workgroup edition NT, Win 95, Netware.	TXu000971828	28-Aug-2000	ARCSERVE (USA) LLC
ARCSERVEIT enterprise library option 6.6 Novell Netware.	TXu000946870	05-Apr-2000	ARCSERVE (USA) LLC
Java Script for WebSharpen_HTMLexample.	TX0008152775	26-Jan-2016	Zetta, LLC


Title	Registration No.	Registration Date	Current Owner of Record
SBMOUNTAPI Source Code	TX0007775829	December 2, 2013	StorageCraft Technology Corporation
SBMOUNTCMD Source Code	TX0007775821	December 2, 2013	StorageCraft Technology Corporation.
GRE Granular Recovery Exchange - Enumerator Software	TX0008031170	January 27, 2015	StorageCraft Technology Corporation
VSnap.sys	TX0006125380	April 12, 2005	StorageCraft Technology Corporation

Schedule 2 to IP Security Agreement

TRADEMARKS

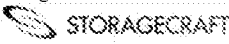
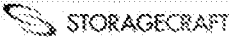
Mark	Jurisdiction	Serial No. Filing Date	Registration No. Registration Date	Class/es	Status	Owner
FAXSERVE	Canada	744163 23-Dec-1993	TMA474182 07-Apr-1997	09	Registered	Arcserve (USA) LLC
DBAGENT	Canada	741002 12-Nov-1993	TMA434347 07-Oct-1994	09	Registered	Arcserve (USA) LLC
ARCSERVE	Canada	740748 05-Nov-1993	TMA434161 30-Sep-1994	09	Registered	Arcserve (USA) LLC
ARCSERVE	Mexico	230082 20-Apr-1995	493985 09-Jun-1995	09, 28	Registered	Arcserve (USA) LLC
ARCSERVE	Argentina	3707514 9-May-2018	3033078 23-Sept-2019	09	Registered	Arcserve (USA) LLC
ARCSERVE	Brazil	818451599 18-Apr-1995	818451599 28-Oct-1997	09	Registered	Arcserve (USA) LLC
ARCSERVE	Chile	834898 27-Aug-2008	842570 02-Sep-2008	09	Registered	Arcserve (USA) LLC
ARCSERVE	Colombia	97074688 23-Dec-1997	210013 22-Jul-1998	09	Registered	Arcserve (USA) LLC
ARCSERVE	Venezuela	1998-000502 15-Jan-1998	P210505 26-Feb-1999	09	Registered	Arcserve (USA) LLC
ARCSERVE	Austria	997/95 21-Feb-1995	157548 07-Apr-1995	09	Registered	Arcserve (USA) LLC
ARCSERVE	Benelux	840229 09-Jan-1995	564275 01-Oct-1995	09	Registered	Arcserve (USA) LLC
ARCSERVE	Denmark	VA 000296 1995 12-Jan-1995	VR 004622 1995 14-Jul-1995	09	Registered	Arcserve (USA) LLC
ARCSERVE	Finland	199704874 17-Dec-1997	212215 15-Dec-1998	09	Registered	Arcserve (USA) LLC
ARC SERVE	France	92430663 13-Aug-1992	92430663 13-Aug-1992	09	Registered	Arcserve (USA) LLC
ARCSERVE	Germany	C42955 07-Jan-1992	2049656 16-Nov-1993	09, 16	Registered	Arcserve (USA) LLC
ARCSERVE	Hungary	M9704908 29-Dec-1997	153964 29-Sep-1998	09	Registered	Arcserve (USA) LLC
ARCSERVE	Italy	302005901279263 24-Jan-1995	0001129098 22-Jul-2008	09	Registered	Arcserve (USA) LLC
ARCSERVE	Norway	19950186 11-Jan-1995	177923 14-Nov-1996	09	Registered	Arcserve (USA) LLC
ARCSERVE	Poland	182064 09-Jan-1998	129440 10-May-2001	09	Registered	Arcserve (USA) LLC
ARCSERVE	Portugal	327945 30-Dec-1997	327945 12-May-2000	09	Registered	Arcserve (USA) LLC
ARCSERVE	Spain	1943312 25-Jan-1995	1943312 05-Sep-1995	09	Registered	Arcserve (USA) LLC
ARCSERVE	Switzerland	229/1995 13-Jan-1995	2P-438785 26-Mar-1997	09, 16, 42	Registered	Arcserve (USA) LLC
ARCSERVE	Turkey	97/020475 31-Dec-1997	194285 18-May-1999	09	Registered	Arcserve (USA) LLC
ARCSERVE	Israel	98360 01-May-1995	98360 05-Jan-1997	09	Registered	Arcserve (USA) LLC

Mark	Jurisdiction	Serial No. Filing Date	Registration No. Registration Date	Class/es	Status	Owner
ARCSERVE	South Africa	1995/04500 10-Apr-1995	1995/04500 05-Sep-2005	09	Registered	Arcserve (USA) LLC
ARCSERVE	India	4662284 17-Apr-1995	662284 31-Dec-2003	09	Registered	Arcserve (USA) LLC
ARCSERVE	Indonesia	R992005002392 26-Apr-2005	IDM000045245 10-Aug-2005	09	Registered	Arcserve (USA) LLC
ARCSERVE	Japan	1993-060365 21-Jun-1993	3168099 28-Jun-1996	09	Registered	Arcserve (USA) LLC
ARCSERVE	Malaysia	95010847 12-Oct-1995	95010847 07-Jul-1997	09	Registered	Arcserve (USA) LLC
ARCSERVE	Pakistan	129632 10-Apr-1995	129632 26-Mar-2005	09	Registered	Arcserve (USA) LLC
ARCSERVE	Korea (South)	4019950015178 19-Apr-1995	4003594560000 09-Apr-1997	09	Registered	Arcserve (USA) LLC
ARCSERVE	Taiwan	84019318 25-Apr-1995	719258 16-Jun-1996	09	Registered	Arcserve (USA) LLC
ARCSERVE	Australia	658285 11-Apr-1995	658285 11-Apr-1995	09	Registered	Arcserve (USA) LLC
ARCSERVE	New Zealand	247745 10-Apr-1995	247745 24-Feb-1997	09	Registered	Arcserve (USA) LLC
ARCSERVE	China	41732045 18-Oct-2019	41732045 28-Jun-2020	09	Pending	Expected to be registered with Arcserve (USA) LLC
ARCSERVE	China	41716388 18-Oct-2019	41716388 28-Jun-2020	42	Pending	Expected to be registered with Arcserve (USA) LLC
ARCSERVE	USA	90460735 12-Jan-2021	—	09, 42	Pending	Arcserve (USA) LLC
ARCSERVE	UK	00003579100 14-Jan-2021	—	09, 42	Pending	Arcserve (USA) LLC
ARCSERVE	EU	018374934 14-Jan-2021	—	09, 42	Pending	Arcserve (USA) LLC

Mark	Jurisdiction	Appl. No./ Filing Date	Reg. No./ Reg. Date	Status	Owner
SHADOWPROTECT 1	Argentina	3227491 19-Feb-2013	2646297 05-May-2014	Registered	StorageCraft Technology Corporation
STORAGECRAFT 2	Argentina	3227492 19-Feb-2013	2646298 05-May-2014	Registered	StorageCraft Technology Corporation
ONEXAFE	Australia (WIPO)	--	1429305 26-Jun-2018	Registered	StorageCraft Technology Corporation
SHADOWCONTROL	Australia (WIPO)	1474759 12-Dec-2011	1105339 12-Dec-2011	Registered	StorageCraft Technology Corporation
SHADOWPROTECT	Australia (WIPO)	1,371,902 04-Jun-2010	1042253 04-Jun-2010	Registered	StorageCraft Technology Corporation
SHADOWPROTECT	Australia (WIPO)	--	1071181 23-Feb-2011	Registered	StorageCraft Technology Corporation
SHADOWSTREAM	Australia (WIPO)	--	1092041 22-Aug-2011	Registered	StorageCraft Technology Corporation
SHADOWXAFE	Australia (WIPO)	--	1421388 26-Jun-2018	Registered	StorageCraft Technology Corporation
STORAGECRAFT	Australia (WIPO)	1,052,038 04-Jun-2010	1052038 04-Jun-2010	Registered	StorageCraft Technology Corporation
STORAGECRAFT	Australia (WIPO)	--	1073293 23-Feb-2011	Registered	StorageCraft Technology Corporation
STORAGECRAFT and Design 	Australia (WIPO)	--	1219647 12-Jun-2014	Registered	StorageCraft Technology Corporation
STRATOXAFE	Australia (WIPO)	--	1422051 26-Jun-2018	Registered	StorageCraft Technology Corporation
SHADOWPROTECT	Brazil	830929720 30-Mar-2011	830929720 22-Jul-2014	Registered	StorageCraft Technology Corporation
STORAGECRAFT	Brazil	830929711 30-Mar-2011	830929711 22-Jul-2014	Registered	StorageCraft Technology Corporation
SHADOWCONTROL	Canada	1556600 16-Dec-2011	TMA890154 17-Nov-2014	Registered	StorageCraft Technology Corporation
SHADOWPROTECT	Canada	1486409 25-Jun-2010	TMA815674 18-Jan-2012	Registered	StorageCraft Technology Corporation
SHADOWPROTECT	Canada	1517173 01-Mar-2011	TMA832675 25-Sep-2012	Registered	StorageCraft Technology Corporation
SHADOWSTREAM	Canada	1540941 24-Aug-2011	TMA880375 18-Jun-2014	Registered	StorageCraft Technology Corporation
STORAGECRAFT	Canada	1486408 25-Jun-2010	TMA815673 18-Jan-2012	Registered	StorageCraft Technology Corporation
STORAGECRAFT	Canada	1516615 24-Feb-2011	TMA833566 03-Oct-2012	Registered	StorageCraft Technology Corporation
SHADOWCONTROL	China (WIPO)	--	1105339 12-Dec-2011	Registered	StorageCraft Technology Corporation
SHADOWPROTECT	China (WIPO)	--	1042253 04-Jun-2010	Registered	StorageCraft Technology Corporation


1 While this trademark registration is still active, a use statement was not filed last year so it is vulnerable to cancellation and the StorageCraft Company Group considers it to have been abandoned.


2 While this trademark registration is still active, a use statement was not filed last year so it is vulnerable to cancellation and the StorageCraft Company Group considers it to have been abandoned.

Mark	Jurisdiction	Appl. No./ Filing Date	Reg. No./ Reg. Date	Status	Owner
SHADOWPROTECT	China (WIPO)	--	1071181 23-Feb-2011	Registered	StorageCraft Technology Corporation
STORAGECRAFT and Design 	China (WIPO)	--	1219647 12-Jun-2014	Registered	StorageCraft Technology Corporation
ONEXAFE	European Union (WIPO)	--	1429305 26-Jun-2018	Registered	StorageCraft Technology Corporation
SHADOWCONTROL	European Union (WIPO)	--	1105339 12-Dec-2011	Registered	StorageCraft Technology Corporation
SHADOWPROTECT	European Union (WIPO)	--	1042253 04-Jun-2010	Registered	StorageCraft Technology Corporation
SHADOWPROTECT	European Union (WIPO)	--	1071181 23-Feb-2011	Registered	StorageCraft Technology Corporation
SHADOWSTREAM	European Union (WIPO)	--	1092041 22-Aug-2011	Registered	StorageCraft Technology Corporation
SHADOWXAFE	European Union (WIPO)	--	1421388 26-Jun-2018	Registered	StorageCraft Technology Corporation
STORAGECRAFT	European Union (WIPO)	--	1052038 04-Jun-2010	Registered	StorageCraft Technology Corporation
STORAGECRAFT	European Union (WIPO)	--	1073293 23-Feb-2011	Registered	StorageCraft Technology Corporation
STORAGECRAFT and Design 	European Union (WIPO)	--	1219647 12-Jun-2014	Registered	StorageCraft Technology Corporation
STRATOXAFE	European Union (WIPO)	--	1422051 26-Jun-2018	Registered	StorageCraft Technology Corporation
SHADOWPROTECT	Hong Kong	301994068 04-Aug-2011	301994068 04-Aug-2011	Registered	StorageCraft Technology Corporation
STORAGECRAFT	Hong Kong	301994059 04-Aug-2011	301994059 04-Aug-2011	Registered	StorageCraft Technology Corporation
SHADOWPROTECT	India	2372290 30-Jul-2012	2372290 24-Sep-2015	Registered	StorageCraft Technology Corporation
STORAGECRAFT	India	2372289 30-Jul-2012	2372289 23-Aug-2016	Registered	StorageCraft Technology Corporation
SHADOWPROTECT	Israel	236241 07-Mar-2011	236241 04-Dec-2012	Registered	StorageCraft Technology Corporation
STORAGECRAFT	Israel	236242 07-Mar-2011	236242 02-May-2012	Registered	StorageCraft Technology Corporation
ONEXAFE	Japan (WIPO)	--	1429305 26-Jun-2018	Registered	StorageCraft Technology Corporation
SHADOWCONTROL	Japan (WIPO)	--	1105339 12-Dec-2011	Registered	StorageCraft Technology Corporation
SHADOWPROTECT	Japan (WIPO)	--	1042253 04-Jun-2010	Registered	StorageCraft Technology Corporation
SHADOWPROTECT	Japan (WIPO)	--	1071181 23-Feb-2011	Registered	StorageCraft Technology Corporation
SHADOWSTREAM	Japan (WIPO)	--	1092041 22-Aug-2011	Registered	StorageCraft Technology Corporation
SHADOWXAFE	Japan (WIPO)	--	1421388 26-Jun-2018	Registered	StorageCraft Technology Corporation
STORAGECRAFT	Japan (WIPO)	--	1052038 04-Jun-2010	Registered	StorageCraft Technology Corporation

Mark	Jurisdiction	Appl. No./ Filing Date	Reg. No./ Reg. Date	Status	Owner
STORAGECRAFT	Japan (WIPO)	--	1073293 23-Feb-2011	Registered	StorageCraft Technology Corporation
STRATOXAFE	Japan (WIPO)	--	1422051 26-Jun-2018	Registered	StorageCraft Technology Corporation
SHADOWPROTECT	Malaysia	2011050271 14-Mar-2011	2011050271 14-Mar-2011	Registered	StorageCraft Technology Corporation
STORAGECRAFT	Malaysia	2011050274 14-Mar-2011	2011050274 14-Mar-2011	Registered	StorageCraft Technology Corporation
SHADOWPROTECT	Mexico	1371491 08-May-2013	1387514 31-Jul-2013	Registered	StorageCraft Technology Corporation
STORAGECRAFT	Mexico	1371492 08-May-2013	1387515 31-Jul-2013	Registered	StorageCraft Technology Corporation
SHADOWCONTROL	New Zealand	853872 13-Dec-2011	853872 14-Jun-2012	Registered	StorageCraft Technology Corporation
SHADOWPROTECT	New Zealand	825363 08-Jun-2010	825363 08-Dec-2010	Registered	StorageCraft Technology Corporation
SHADOWPROTECT	New Zealand	837748 25-Feb-2011	837748 10-Oct-2011	Registered	StorageCraft Technology Corporation
STORAGECRAFT	New Zealand	825365 08-Jun-2010	825365 08-Dec-2010	Registered	StorageCraft Technology Corporation
STORAGECRAFT	New Zealand	837750 25-Feb-2011	837750 25-Aug-2011	Registered	StorageCraft Technology Corporation
SHADOWPROTECT	Norway (WIPO)	--	1042253 04-Jun-2010	Registered	StorageCraft Technology Corporation
STORAGECRAFT	Norway (WIPO)	--	1052038 04-Jun-2010	Registered	StorageCraft Technology Corporation
SHADOWCONTROL	Republic of Korea (WIPO)	--	1105339 12-Dec-2011	Registered	StorageCraft Technology Corporation
SHADOWPROTECT	Republic of Korea (WIPO)	--	1042253 04-Jun-2010	Registered	StorageCraft Technology Corporation
SHADOWPROTECT	Republic of Korea (WIPO)	--	1071181 23-Feb-2011	Registered	StorageCraft Technology Corporation
STORAGECRAFT	Republic of Korea (WIPO)	--	1052038 04-Jun-2010	Registered	StorageCraft Technology Corporation
STORAGECRAFT	Republic of Korea (WIPO)	--	1073293 23-Feb-2011	Registered	StorageCraft Technology Corporation
SHADOWPROTECT	Russian Federation (WIPO)	--	1042253 04-Jun-2010	Registered	StorageCraft Technology Corporation
STORAGECRAFT	Russian Federation (WIPO)	--	1052038 04-Jun-2010	Registered	StorageCraft Technology Corporation
SHADOWCONTROL	Singapore (WIPO)	--	1105339 12-Dec-2011	Registered	StorageCraft Technology Corporation
SHADOWPROTECT	Singapore (WIPO)	--	1042253 04-Jun-2010	Registered	StorageCraft Technology Corporation
SHADOWPROTECT	Singapore (WIPO)	--	1071181 23-Feb-2011	Registered	StorageCraft Technology Corporation
STORAGECRAFT	Singapore (WIPO)	--	1052038 04-Jun-2010	Registered	StorageCraft Technology Corporation
STORAGECRAFT	Singapore (WIPO)	--	1073293 23-Feb-2011	Registered	StorageCraft Technology Corporation
SHADOWPROTECT	South Africa	2011/04920 04-Mar-2011	2011/04920 14-Jan-2013	Registered	StorageCraft Technology Corporation

Mark	Jurisdiction	Appl. No./ Filing Date	Reg. No./ Reg. Date	Status	Owner
STORAGECRAFT	South Africa	2011/04921 04-Mar-2011	2011/04921 21-Nov-2012	Registered	StorageCraft Technology Corporation
SHADOWCONTROL	Switzerland (WIPO)	--	1105339 12-Dec-2011	Registered	StorageCraft Technology Corporation
SHADOWPROTECT	Switzerland	52397/2011 01-Mar-2011	615825 27-May-2011	Registered	StorageCraft Technology Corporation
STORAGECRAFT	Switzerland	58970/2010 25-Aug-2010	608749 02-Dec-2010	Registered	StorageCraft Technology Corporation
SHADOWPROTECT	Taiwan	100034976 12-Jul-2011	01550165 01-Dec-2012	Registered	StorageCraft Technology Corporation
STORAGECRAFT	Taiwan	100034978 12-Jul-2011	01550166 01-Dec-2012	Registered	StorageCraft Technology Corporation
SHADOWPROTECT	Turkey (WIPO)	--	1071181 23-Feb-2011	Registered	StorageCraft Technology Corporation
STORAGECRAFT	Turkey (WIPO)	--	1052038 04-Jun-2010	Registered	StorageCraft Technology Corporation
STORAGECRAFT	Turkey (WIPO)	--	1073293 23-Feb-2011	Registered	StorageCraft Technology Corporation
SHADOWPROTECT	Ukraine (WIPO)	--	1042253 04-Jun-2010	Registered	StorageCraft Technology Corporation
STORAGECRAFT	Ukraine (WIPO)	--	1052038 04-Jun-2010	Registered	StorageCraft Technology Corporation
EXABLOX	United States of America	85527587 27-Jan-2012	4299210 05-Mar-2013	Registered	StorageCraft Technology Corporation
EXABLOX	United States of America	85527596 27-Jan-2012	4299211 05-Mar-2013	Registered	StorageCraft Technology Corporation
EXABLOX	United States of America	85527603 27-Jan-2012	4302589 12-Mar-2013	Registered	StorageCraft Technology Corporation
HEADSTART RESTORE	United States of America	77642303 31-Dec-2008	3850850 21-Sep-2010	Registered	StorageCraft Technology Corporation
HEADSTART RESTORE	United States of America	85254960 01-Mar-2011	4038001 11-Oct-2011	Registered	StorageCraft Technology Corporation
INTELLIGENTFTP	United States of America	85358517 28-Jun-2011	4259396 11-Dec-2012	Registered Supplemental Register	StorageCraft Technology Corporation
ONEBLOX	United States of America	86139675 10-Dec-2013	4571706 22-Jul-2014	Registered	StorageCraft Technology Corporation
ONEBLOX	United States of America	87085148 27-Jun-2016	5254199 01-Aug-2017	Registered	StorageCraft Technology Corporation
ONESYSTEM	United States of America	87085138 27-Jun-2016	5194552 02-May-2017	Registered	StorageCraft Technology Corporation
ONESYSTEM	United States of America	85899577 09-Apr-2013	4439733 26-Nov-2013	Registered	StorageCraft Technology Corporation
ONEXAFE	United States of America	87893553 25-Apr-2018	5807996 16-Jul-2019	Registered	StorageCraft Technology Corporation
ONEXAFE	United States of America	87893577 25-Apr-2018	6130798 18-Aug-2020	Registered	StorageCraft Technology Corporation
SCT	United States of America	87893426 25-Apr-2018	--	Pending (Allowed) Intent To Use	StorageCraft Technology Corporation
SCT	United States of America	87893452 25-Apr-2018	--	Pending (Allowed) Intent To Use	StorageCraft Technology Corporation

Mark	Jurisdiction	Appl. No./ Filing Date	Reg. No./ Reg. Date	Status	Owner
SCT	United States of America	87893480 25-Apr-2018	--	Pending (Allowed) Intent To Use	StorageCraft Technology Corporation
SHADOWCONTROL	United States of America	85358538 28-Jun-2011	4226900 16-Oct-2012	Registered	StorageCraft Technology Corporation
SHADOWPROTECT	United States of America	77945130 25-Feb-2010	3856613 05-Oct-2010	Registered	StorageCraft Technology Corporation
SHADOWPROTECT	United States of America	85124859 08-Sep-2010	3950931 26-Apr-2011	Registered	StorageCraft Technology Corporation
SHADOWSAFE	United States of America	86908939 16-Feb-2016	5148055 21-Feb-2017	Registered	StorageCraft Technology Corporation
SHADOWSNAP	United States of America	86269241 01-May-2014	4702720 17-Mar-2015	Registered	StorageCraft Technology Corporation
SHADOWSTREAM	United States of America	85258350 04-Mar-2011	4276348 15-Jan-2013	Registered	StorageCraft Technology Corporation
SHADOWXAFE	United States of America	87893498 25-Apr-2018	6114045 28-Jul-2020	Registered	StorageCraft Technology Corporation
SHADOWXAFE	United States of America	87893533 25-Apr-2018	6119453 04-Aug-2020	Registered	StorageCraft Technology Corporation
SMARTONE	United States of America	85474118 16-Nov-2011	4306211 19-Mar-2013	Registered	StorageCraft Technology Corporation
SMARTONE	United States of America	85474125 16-Nov-2011	4299053 05-Mar-2013	Registered	StorageCraft Technology Corporation
STORAGECRAFT	United States of America	77945117 25-Feb-2010	3856611 05-Oct-2010	Registered	StorageCraft Technology Corporation
STORAGECRAFT	United States of America	85724678 10-Sep-2012	4382747 13-Aug-2013	Registered	StorageCraft Technology Corporation
STORAGECRAFT	United States of America	85254977 01-Mar-2011	4158705 12-Jun-2012	Registered	StorageCraft Technology Corporation
STORAGECRAFT	United States of America	85115975 25-Aug-2010	3950774 26-Apr-2011	Registered	StorageCraft Technology Corporation
S STORAGECRAFT and Design 	United States of America	86917056 23-Feb-2016	5210392 23-May-2017	Registered	StorageCraft Technology Corporation
STORAGECRAFT S and Design 	United States of America	86917093 23-Feb-2016	5168027 21-Mar-2017	Registered	StorageCraft Technology Corporation
STRATOXAFE	United States of America	87893589 25-Apr-2018	--	Pending (Allowed) Intent To Use	StorageCraft Technology Corporation
ONEXAFE	WIPO Australia European Union Japan	--	1429305 26-Jun-2018	Registered	StorageCraft Technology Corporation
SHADOWCONTROL	WIPO Australia Switzerland China European Union Japan South Korea Singapore	--	1105339 12-Dec-2011	Registered	StorageCraft Technology Corporation

Mark	Jurisdiction	Appl. No./ Filing Date	Reg. No./ Reg. Date	Status	Owner
SHADOWPROTECT	WIPO Australia China European Union Japan South Korea Norway Russian Federation Singapore Ukraine	--	1042253 04-Jun-2010	Registered	StorageCraft Technology Corporation
SHADOWPROTECT	WIPO Australia China European Union Japan South Korea Singapore Turkey	--	1071181 23-Feb-2011	Registered	StorageCraft Technology Corporation
SHADOWSTREAM	WIPO Australia European Union Japan	--	1092041 22-Aug-2011	Registered	StorageCraft Technology Corporation
SHADOWXAFE	WIPO Australia European Union Japan	--	1421388 26-Jun-2018	Registered	StorageCraft Technology Corporation
STORAGECRAFT	WIPO Australia China European Union Japan South Korea Norway Russian Federation Singapore Turkey Ukraine	--	1052038 04-Jun-2010	Registered	StorageCraft Technology Corporation
STORAGECRAFT	WIPO Australia China European Union Japan South Korea Singapore Turkey	--	1073293 23-Feb-2011	Registered	StorageCraft Technology Corporation
STORAGECRAFT and Design 	WIPO Australia China European Union	--	1219647 12-Jun-2014	Registered	StorageCraft Technology Corporation
STRATOXAFE	WIPO Australia European Union Japan	--	1422051 26-Jun-2018	Registered	StorageCraft Technology Corporation
EXABLOX	Japan (WIPO)	--	1295311 25-Nov-2015	Registered	StorageCraft Technology Corporation
EXABLOX	WIPO Japan	--	1295311 25-Nov-2015	Registered	StorageCraft Technology Corporation
ONEBLOX	Japan (WIPO)	--	1290208 25-Nov-2015	Registered	StorageCraft Technology Corporation

Mark	Jurisdiction	Appl. No./ Filing Date	Reg. No./ Reg. Date	Status	Owner
ONEBLOX	Japan	2016-044444 19-Apr-2016	5890165 21-Oct-2016	Registered	StorageCraft Technology Corporation
ONEBLOX	(WIPO) Japan	--	1290208 25-Nov-2015	Registered	StorageCraft Technology Corporation
ONESYSTEM	European Union (WIPO)	--	1179632 25-Sep-2013	Registered	StorageCraft Technology Corporation
ONESYSTEM	Hong Kong	304002975 23-Dec-2016	304002975 23-Dec-2016	Registered	StorageCraft Technology Corporation
ONESYSTEM	India (WIPO)	--	1179632 25-Sep-2013	Registered	StorageCraft Technology Corporation
ONESYSTEM	India (WIPO)	--	1337288 22-Dec-2016	Registered	StorageCraft Technology Corporation
ONESYSTEM	Japan (WIPO)	--	1179632 25-Sep-2013	Registered	StorageCraft Technology Corporation
ONESYSTEM	Japan (WIPO)	--	1337288 22-Dec-2016	Registered	StorageCraft Technology Corporation
ONESYSTEM	WIPO China European Union India Japan	--	1179632 25-Sep-2013	Registered	StorageCraft Technology Corporation
ONESYSTEM	WIPO China European Union India Japan	--	1337288 22-Dec-2016	Registered	StorageCraft Technology Corporation
STRATOXAFE	United Kingdom		UK00801422051	Registered	

Schedule 3 to IP Security Agreement

PATENTS

Title	Jurisdiction	Application No. Filing Date	Patent No. Issue Date	Status	Owner
Systems and methods for state consistent replication	USA	14/604614 23-Jan-15	9547559 17-Jan-17	Granted	Zetta, LLC
Systems and methods for minimizing network bandwidth for replication/back up	USA	14/664407 20-Mar-15	9501367* 22-Nov-16	Granted	Zetta, LLC
Systems and methods for on-line backup and disaster recovery with local copy	USA	14/604599 23-Jan-15	9483359* 1-Nov-16	Granted	Zetta, LLC
Asynchronous replication correctness validation	USA	14/836924 26-Aug-15	9448893* 20-Sep-16	Granted	Zetta, LLC
Back up using locally distributed change detection	USA	14/608120 28-Jan-15	9348830* 24-May-16	Granted	Zetta, LLC
Systems and methods for on-line backup and disaster recovery	USA	13/725841 21-Dec-12	9268797* 23-Feb-16	Granted	Zetta, LLC
Asynchronous replication correctness validation	USA	13/725,521 12-21-2012	9152686* 10-06-2015	Granted	Zetta, LLC
Distributed data store	USA	13/844847 16-Mar-13	9152643 6-Oct-15	Granted	Zetta, LLC
System and Methods for On-Demand Data Storage	USA	13/725,711 12-21-2012	9152642* 10-06-2015	Granted	Zetta, LLC
Systems and methods for minimizing network bandwidth for replication/back up	USA	13/725597 21-Dec-12	9015122 21-Apr-15	Granted	Zetta, LLC
Systems and methods for on-line backup and disaster recovery with local copy	USA	13/725657 21-Dec-12	8977598 10-Mar-15	Granted	Zetta, LLC
Back up using locally distributed change detection	USA	13/725440 21-Dec-12	8977596 10-Mar-15	Granted	Zetta, LLC
Systems and methods for state consistent replication	USA	13/725756 21-Dec-12	8977594 10-Mar-15	Granted	Zetta, LLC
Snapshot Space Reduction Method and Apparatus	USA	15/964977 27-Apr-18	10698633 30-June-2020	Granted	Arcserve (USA) LLC
Method of detecting source change for file level incremental backup	USA	15/714366 25-Sep-17	10503605 10-Dec-19	Granted	Arcserve (USA) LLC
Snapshot management	USA	14/555262 26-Nov-14	10140188 27-Nov-18	Granted	Zetta, LLC
Method of detecting source change for file level incremental backup	USA	16/692350 22-Nov-19	—	Pending	Arcserve (USA) LLC
Snapshot Space Reduction Method and Apparatus	WIPO	PCT/US19/29309 26-Apr-19	—	Pending	Arcserve (USA) LLC
Snapshot management	USA	16/163935 18-Oct-18	—	Pending	Zetta, LLC
Snapshot Space Reduction Method And Apparatus for Instant Operating System Recovery and Whole Volume Restore	USA	16-841,852 07-Apr-20	—	Pending	Arcserve (USA) LLC

All of the following are registered in the name of StorageCraft Technology Corporation (to be named StorageCraft Technology LLC in connection with the Transactions):

MB Ref. No.	SC Ref. No.	Title	Inventor(s)	Application Number	Filed Date	Patent Number	Granted Date	Status
SI430.10001US01	STC56	SYSTEMS, METHODS, AND COMPUTER READABLE MEDIA FOR COMPUTER DATA PROTECTION	James Kirby, Scott Barnes, Maxim Shatskih	11/112,758	4/22/2005	9,152,823	10/6/2015	Granted
SI430.10002US01	STC57	SYSTEMS, METHODS, AND COMPUTER-READABLE MEDIA FOR BACKUP AND RESTORATION OF COMPUTER INFORMATION	Scott Barnes, Nathan S. Bushman, Maxim Shatskih	12/716,043	3/2/2010	8,190,574	5/29/2012	Granted
SI430.10002US03	STC10	MIGRATION OF COMPUTER DATA	Nathan S. Bushman	13/872,001	4/26/2013	9,606,875	3/28/2017	Granted
SI430.10002US04	STC91	RESTORATION OF A BACKUP OF A FIRST VOLUME TO A SECOND VOLUME ON PHYSICAL MEDIA	Scott Barnes, Nathan S. Bushman	14/555,348	11/26/2014	9,152,508	10/6/2015	Granted
SI430.10002US05		HEADSTART RESTORE OF FIRST VOLUME TO A SECOND VOLUME	Scott Barnes, Nathan S. Bushman, Maxim Shatskih	15/420,437	1/31/2017	10,241,873	3/26/2019	Granted
SI430.10003US01	STC3	RESTORING A BACKUP FROM A DUPLICATION VAULT STORAGE	Andrew L. Gardner	13/782,822	3/1/2013	8,732,135	5/20/2014	Granted
SI430.10005US01	STC12	HASH COLLISION RECOVERY IN A DUPLICATION VAULT	Andrew L. Gardner	14/492,993	9/22/2014	9,152,500	10/6/2015	Granted
SI430.10007US01	STC5	CHANGE TRACKING FOR MULTIPHASE DUPLICATION	Andrew L. Gardner	13/782,807	3/1/2013	8,738,577	5/27/2014	Granted
SI430.10007US02	STC92	CHANGE TRACKING FOR MULTIPHASE DUPLICATION	Andrew L. Gardner	14/260,044	4/23/2014	8,914,325	12/16/2014	Granted
SI430.10010US01	STC29	PRUNING PREVIOUSLY-ALLOCATED FREE BLOCKS FROM A SYNTHETIC BACKUP	Scott Barnes, Nathan S. Bushman, Maxim Shatskih	13/712,065	12/12/2012	8,782,005	7/15/2014	Granted
SI430.10011US01	STC2	CRASH-TOLERANT INCREMENTAL CHANGE TRACKING BETWEEN BACKUPS OF A SOURCE STORAGE	Scott Barnes, Nathan S. Bushman, Maxim Shatskih	14/063,046	10/25/2013	8,719,521	5/6/2014	Granted
SI430.10013US01	STC8	DEFRAGMENTATION DURING MULTIPHASE DUPLICATION	Nathan S. Bushman, Andrew L. Gardner	13/782,986	3/1/2013	8,682,870	3/25/2014	Granted
SI430.10014US01	STC9	LOCAL SEEDING OF A RESTORE STORAGE FOR RESTORING A BACKUP FROM A REMOTE DUPLICATION VAULT STORAGE	Nathan S. Bushman, Andrew L. Gardner	13/782,957	3/1/2013	8,874,527	10/28/2014	Granted
SI430.10015US01	STC11	VIRTUAL DEFRAGMENTATION IN A DUPLICATION VAULT	Nathan S. Bushman, Andrew L. Gardner	14/166,569	1/28/2014	8,751,454	6/10/2014	Granted
SI430.10016US01	STC13	AVOIDING ENCRYPTION OF CERTAIN BLOCKS IN A DUPLICATION VAULT	Andrew L. Gardner	14/493,028	9/22/2014	9,003,200	4/7/2015	Granted
SI430.10016US03		AVOIDING ENCRYPTION IN A DUPLICATION STORAGE	Andrew L. Gardner	14/966,406	12/11/2015	9,626,518	4/18/2017	Granted
SI430.10017AU01	STC93	GRAPHICAL USER INTERFACE TIMELINE GRAPH FOR NAVIGATING EVENTS OF A BACKUP JOB	Nathan A. Patrick, Stuart B. Fordham, Jeffrey L. Harris	2014203099	6/6/2014	2014203099	10/15/2015	Granted
SI430.10017DE01		GRAPHICAL USER INTERFACE TIMELINE GRAPH FOR NAVIGATING EVENTS OF A BACKUP JOB	Nathan A. Patrick, Stuart B. Fordham, Jeffrey L. Harris	14171665.4	6/9/2014	2824574	12/27/2017	Granted
SI430.10017EP01	STC94	GRAPHICAL USER INTERFACE TIMELINE GRAPH FOR NAVIGATING EVENTS OF A BACKUP JOB	Nathan A. Patrick, Stuart B. Fordham, Jeffrey L. Harris	14171665.4	6/9/2014	2824574	12/27/2017	Granted
SI430.10017FR01		GRAPHICAL USER INTERFACE TIMELINE GRAPH FOR NAVIGATING EVENTS OF A BACKUP JOB	Nathan A. Patrick, Stuart B. Fordham, Jeffrey L. Harris	14171665.4	6/9/2014	2824574	12/27/2017	Granted
SI430.10017GB01		GRAPHICAL USER INTERFACE TIMELINE GRAPH	Nathan A. Patrick, Stuart B.	14171665.4	6/9/2014	2824574	12/27/2017	Granted

MIB Ref. No.	SC Ref. No.	Title	Inventor(s)	Application Number	Filed Date	Patent Number	Granted Date	Status
SI430.10017JP01	STC95	FOR NAVIGATING EVENTS OF A BACKUP JOB METHOD FOR NAVIGATING EVENTS OF A BACKUP JOB AND COMPUTER-READABLE STORAGE MEDIUM	Fordham, Jeffrey L. Harris Nathan A. Patrick, Stuart B. Fordham, Jeffrey L. Harris	2014-117821	6/6/2014	5736491	4/24/2015	Granted
SI430.10017US01	STC2	GRAPHICAL USER INTERFACE GRAPH FOR NAVIGATING EVENTS OF A BACKUP JOB	Nathan A. Patrick, Stuart B. Fordham, Jeffrey L. Harris	13/914,390	6/10/2013	8,665,275	3/4/2014	Granted
SI430.10021JP01	STC100	GRAPHICAL USER INTERFACE RELATIONSHIP GRAPH FOR DISPLAYING RELATIONSHIPS BETWEEN IMAGE BACKUP FILES IN A BACKUP JOB	Nathan A. Patrick, Stuart B. Fordham	2015-010211	1/22/2015	6517517	4/26/2019	Granted
SI430.10021US01	STC16	GRAPHICAL USER INTERFACE RELATIONSHIP GRAPH FOR DISPLAYING RELATIONSHIPS BETWEEN IMAGE BACKUP FILES IN A BACKUP JOB	Nathan A. Patrick, Stuart B. Fordham	14/163,892	1/24/2014	8,943,441	1/27/2015	Granted
SI430.10021US02	STC106	GRAPHICAL USER INTERFACE RELATIONSHIP GRAPH FOR DISPLAYING RELATIONSHIPS BETWEEN IMAGE BACKUP FILES IN A BACKUP JOB	Nathan A. Patrick, Stuart B. Fordham	14/569,360	12/12/2014	9,934,101	4/3/2018	Granted
SI430.10022AU01	STC123	EXPOSING PROPRIETARY DATA TO A HYPERVISOR AS NATIVE HYPERVISOR DATA	Nathan S. Bushman, Maxim Shatskiikh	2015202965	6/1/2015	2015202965	9/6/2018	Granted
SI430.10022JP02		EXPOSING PROPRIETARY DATA TO A HYPERVISOR AS NATIVE HYPERVISOR DATA	Nathan S. Bushman, Maxim Shatskiikh	2018-157134	6/2/2015	6568277	8/9/2019	Granted
SI430.10022US01	STC17	EXPOSING A PROPRIETARY DISK FILE TO A HYPERVISOR AS A NATIVE HYPERVISOR DISK FILE	Nathan S. Bushman, Maxim Shatskiikh	14/293,122	6/2/2014	8,943,105	1/27/2015	Granted
SI430.10022US02	STC101	EXPOSING PROPRIETARY DATA TO A HYPERVISOR AS NATIVE HYPERVISOR DATA	Nathan S. Bushman, Maxim Shatskiikh	14/569,330	12/12/2014	9,311,003	4/12/2016	Granted
SI430.10022US03		EXPOSING PROPRIETARY DATA TO A HYPERVISOR AS NATIVE HYPERVISOR DATA	Nathan S. Bushman, Maxim Shatskiikh	14/966,388	12/11/2015	9,489,140	11/8/2016	Granted
SI430.10022US04		EXPOSING PROPRIETARY DATA TO A HYPERVISOR AS NATIVE HYPERVISOR DATA	Nathan S. Bushman, Maxim Shatskiikh	15/284,331	10/3/2016	9,684,458	6/20/2017	Granted
SI430.10023US01	STC18	PRUNING UNWANTED FILE CONTENT FROM AN IMAGE BACKUP	Nathan S. Bushman	14/477,984	9/5/2014	9,152,507	10/6/2015	Granted
SI430.10024US01	STC19	OPTIMIZING BACKUP OF WHITELISTED FILES	Nathan S. Bushman, Stephen Williams	14/577,152	12/19/2014	9,081,792	7/14/2015	Granted
SI430.10024US02	STC126	OPTIMIZING BACKUP OF WHITELISTED FILES	Nathan S. Bushman, Stephen Williams	14/710,328	5/12/2015	10,120,595	11/6/2018	Granted
SI430.10025US02	STC31	CHANGE TRACKING BETWEEN SNAPSHOTS OF A SOURCE STORAGE	Nathan S. Bushman	14/290,363	5/29/2014	8,832,027	9/9/2014	Granted
SI430.10026US01	STC25	VIRTUAL DEFRAGMENTATION OF A STORAGE	Nathan S. Bushman	14/460,926	8/15/2014	8,966,207	2/24/2015	Granted
SI430.10027US01	STC23	SOFTWARE ACTIVATION AND REVALIDATION	Nathan S. Bushman, Douglas M. Lee	14/308,302	6/18/2014	8,997,249	3/31/2015	Granted
SI430.10027US02	STC115	SOFTWARE ACTIVATION AND REVALIDATION	Nathan S. Bushman, Douglas M. Lee	14/611,504	2/2/2015	9,171,138	10/27/2015	Granted
SI430.10027US03	STC133	SOFTWARE REVALIDATION	Nathan S. Bushman, Douglas M. Lee	14/868,087	9/28/2015	9,424,404	8/23/2016	Granted

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SI430.10027US04		SOFTWARE REVALIDATION AND INVALIDATION	Nathan S. Bushman, Douglas M. Lee	15/095,977	4/11/2016	9,536,062	1/3/2017	Granted
SI430.10027US05		SOFTWARE REVALIDATION AND INVALIDATION	Nathan S. Bushman, Douglas M. Lee	15/284,294	10/3/2016	9,830,432	11/28/2017	Granted
SI430.10028US01	STC28	HYBRID IMAGE BACKUP OF A SOURCE STORAGE	Scott Barnes, Nathan S. Bushman, Thomas R. Shreve	15/074,712	3/18/2016	9,501,364	11/22/2016	Granted
SI430.10028US02		HYBRID IMAGE BACKUP OF A SOURCE STORAGE	Scott Barnes, Nathan S. Bushman, Thomas R. Shreve	15/284,310	10/3/2016	9,886,351	2/6/2018	Granted
SI430.10031US02		HEAD START POPULATION OF AN IMAGE BACKUP	Nathan S. Bushman	14/966,433	12/11/2015	9,740,569	8/22/2017	Granted
SI430.10031US03		HEAD START POPULATION OF AN IMAGE BACKUP	Nathan S. Bushman	15/492,955	4/20/2017	9,811,422	11/7/2017	Granted
SI430.10032US01	STC22	HASH VALUE COMPARISON DURING CRASH-TOLERANT INCREMENTAL CHANGE TRACKING BETWEEN BACKUPS OF A SOURCE STORAGE	Scott Barnes, Nathan S. Bushman	14/266,568	4/30/2014	9,003,143	4/7/2015	Granted
SI430.10035US01	STC34	UTILIZING AN INCREMENTAL BACKUP IN A DECREMENTAL BACKUP SYSTEM	Nathan S. Bushman	14/501,766	9/30/2014	9,367,401	6/14/2016	Granted
SI430.10035US02		UTILIZING AN INCREMENTAL BACKUP IN A DECREMENTAL BACKUP SYSTEM	Nathan S. Bushman	15/048,687	2/19/2016	10,474,537	11/12/2019	Granted
SI430.10036US01	STC35	STAGED RESTORE OF A DECREMENTAL BACKUP CHAIN	Nathan S. Bushman, Douglas M. Lee	14/501,795	9/30/2014	9,152,504	10/6/2015	Granted
SI430.10037US01	STC36	CONSOLIDATING DECREMENTAL BACKUPS IN A DECREMENTAL BACKUP CHAIN	Nathan S. Bushman	14/501,823	9/30/2014	9,208,033	12/8/2015	Granted
SI430.10038US01	STC37	PRUNING FREE BLOCKS OUT OF A DECREMENTAL BACKUP CHAIN	Nathan S. Bushman	14/501,846	9/30/2014	8,966,200	2/24/2015	Granted
SI430.10039US01	STC33	CLIENT-SIDE ENCRYPTION IN A DEPLICATION BACKUP SYSTEM	Nathan S. Bushman, Dudley M. Irish, Jeffrey D. Blair, Adam J. Mensel	14/508,654	10/7/2014	9,372,998	6/21/2016	Granted
SI430.10040US01	STC75	CATALOGING FILE SYSTEM-LEVEL CHANGES TO A SOURCE STORAGE BETWEEN IMAGE BACKUPS OF THE SOURCE STORAGE	Scott Barnes, Nathan S. Bushman, Scott Robison	15/097,140	4/12/2016	9,804,926	10/31/2017	Granted
SI430.10042US01	STC42	FILTERING A DIRECTORY ENUMERATION OF A DIRECTORY TO EXCLUDE FILES WITH MISSING FILE CONTENT FROM AN IMAGE BACKUP	Nathan S. Bushman	15/068,162	3/11/2016	9,619,335	4/11/2017	Granted
SI430.10042US02		FILTERING A DIRECTORY ENUMERATION OF A DIRECTORY OF AN IMAGE BACKUP	Nathan S. Bushman	15/362,323	11/28/2016	10,437,687	10/8/2019	Granted
SI430.10043US01	STC47	TRACKING CONTENT BLOCKS IN A SOURCE STORAGE FOR INCLUSION IN AN IMAGE BACKUP OF THE SOURCE STORAGE	Nathan S. Bushman	15/182,282	6/14/2016	9,727,264	8/8/2017	Granted
SI430.10045AU01	STC127	EXPOSING A PROPRIETARY IMAGE BACKUP TO A HYPERVISOR AS A DISK FILE THAT IS BOOTABLE BY THE HYPERVISOR	Nathan S. Bushman, Lee C. Bender, Jr.	2015203231	6/15/2015	2015203231	7/7/2016	Granted
SI430.10045JP01	STC129	EXPOSING A PROPRIETARY IMAGE BACKUP TO A HYPERVISOR AS A DISK FILE THAT IS BOOTABLE BY THE HYPERVISOR	Nathan S. Bushman, Lee C. Bender, Jr.	2015-121234	6/16/2015	5819561	10/9/2015	Granted
SI430.10045US01	STC45	EXPOSING A PROPRIETARY IMAGE BACKUP TO A HYPERVISOR AS A DISK FILE THAT IS BOOTABLE	Nathan S. Bushman, Lee C. Bender, Jr.	14/605,699	1/26/2015	9,075,649	7/7/2015	Granted

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SI430.10045US02	STC130	BY THE HYPERVISOR EXPOSING A PROPRIETARY IMAGE BACKUP TO A HYPERVISOR AS A DISK FILE THAT IS BOOTABLE BY THE HYPERVISOR	Nathan S. Bushman, Lee C. Bender, Jr.	14/710,357	5/12/2015	10,078,525	9/18/2018	Granted
SI430.10045US03		EXPOSING A PROPRIETARY IMAGE BACKUP TO A HYPERVISOR AS A DISK FILE THAT IS BOOTABLE BY THE HYPERVISOR	Nathan S. Bushman, Lee C. Bender, Jr.	16/127,168	9/10/2018	10,628,208	4/21/2020	Granted
SI430.10046US01	STC44	CONSOLIDATING ENCRYPTED IMAGE BACKUPS WITHOUT DECRYPTION	Nathan S. Bushman	15/182,293	6/14/2016	9,794,061	10/17/2017	Granted
SI430.10046US02		CONSOLIDATING ENCRYPTED IMAGE BACKUPS WITHOUT DECRYPTION	Nathan S. Bushman	15/605,681	5/25/2017	9,917,688	3/13/2018	Granted
SI430.10051US01	STC48	AVOIDING COMPRESSION OF HIGH-ENTROPY DATA DURING CREATION OF A BACKUP OF A SOURCE STORAGE	Nathan S. Bushman, Stephen Williams	15/182,303	6/14/2016	9,626,249	4/18/2017	Granted
SI430.10052AU01		VIRTUALIZING MULTIPLE NETWORKED MACHINES USING A PREDETERMINED NETWORK RECOVERY POLICY	Thomas F. Christensen, Christopher G. Derrick, David M. McConkie Jr.	2016200242	1/15/2016	2016200242	9/15/2016	Granted
SI430.10052JP01		VIRTUALIZING MULTIPLE NETWORKED MACHINES USING A PREDETERMINED NETWORK RECOVERY POLICY	Thomas F. Christensen, Christopher G. Derrick, David M. McConkie Jr.	2016-006206	1/15/2016	6122159	4/7/2017	Granted
SI430.10052US01	STC50	VIRTUALIZING MULTIPLE NETWORKED MACHINES USING A PREDETERMINED NETWORK RECOVERY POLICY	Thomas F. Christensen, Christopher G. Derrick, David M. McConkie Jr.	14/599,273	1/16/2015	9,087,001	7/21/2015	Granted
SI430.10054US01	STC53	TRIMMING UNUSED BLOCKS FROM A VERSIONED IMAGE BACKUP OF A SOURCE STORAGE THAT IS STORED IN A SPARSE STORAGE	Nathan S. Bushman, Thomas F. Christensen, David M. McConkie Jr.	15/085,743	3/30/2016	9,563,633	2/7/2017	Granted
SI430.10054US02		TRIMMING UNUSED BLOCKS FROM A VERSIONED IMAGE BACKUP OF A SOURCE STORAGE THAT IS STORED IN A SPARSE STORAGE	Nathan S. Bushman, Thomas F. Christensen, David M. McConkie Jr.	15/284,306	10/3/2016	10,423,494	9/24/2019	Granted
SI430.10056AU01		CAPTURING POST-SNAPSHOT QUIESCENCE WRITES IN AN IMAGE BACKUP	Nathan S. Bushman	2016203772	6/7/2016	2016203772	12/8/2016	Granted
SI430.10056JP01		CAPTURING POST-SNAPSHOT QUIESCENCE WRITES IN AN IMAGE BACKUP	Nathan S. Bushman	2016-112637	6/6/2016	6031629	10/28/2016	Granted
SI430.10056US01	STC87	CAPTURING POST-SNAPSHOT QUIESCENCE WRITES IN AN IMAGE BACKUP	Nathan S. Bushman	14/733,505	6/8/2015	9,304,864	4/5/2016	Granted
SI430.10057US01	STC113	CAPTURING POST-SNAPSHOT QUIESCENCE WRITES IN A LINEAR IMAGE BACKUP CHAIN	Scott Barnes, Nathan S. Bushman	14/733,611	6/8/2015	9,311,190	4/12/2016	Granted
SI430.10058US01	STC114	CAPTURING POST-SNAPSHOT QUIESCENCE WRITES IN A BRANCHING IMAGE BACKUP CHAIN	Nathan S. Bushman	14/733,628	6/8/2015	9,361,185	6/7/2016	Granted
SI430.10059US01	STC89	DETECTING MODIFICATIONS TO A STORAGE THAT OCCUR IN AN ALTERNATE OPERATING ENVIRONMENT	Nathan S. Bushman	14/706,654	5/7/2015	9,361,301	6/7/2016	Granted
SI430.10060US01	STC131	LIVE UPDATING OF A CHANGED BLOCK TRACKING DRIVER	Charles Coffing, Kai Meyer	15/074,598	3/18/2016	9,678,685	6/13/2017	Granted
SI430.10060US02		LIVE UPDATING OF A CHANGED BLOCK TRACKING DRIVER	Charles Coffing, Kai Meyer	15/492,974	4/20/2017	9,886,265	2/6/2018	Granted
SI430.10061US01		CONSISTENT RING NAMESPACES FACILITATING	Charles Hardin, Sridhar	13/441,592	4/6/2012	9,628,438	4/18/2017	Granted

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SI430.10061US02		DATA STORAGE AND ORGANIZATION IN NETWORK INFRASTRUCTURES	Subramaniam, Tad Hunt, Frank E. Barrus	15/488,303	4/14/2017	10,496,627	12/3/2019	Granted
SI430.10062DE01		CONSISTENT RING NAMESPACES FACILITATING DATA STORAGE AND ORGANIZATION IN NETWORK INFRASTRUCTURES	Charles Hardin, Sridhar Subramaniam, Tad Hunt, Frank E. Barrus	15743017.4	1/29/2015	3103023	3/6/2019	Granted
SI430.10062EP01		PRIVATE CLOUD CONNECTED DEVICE CLUSTER ARCHITECTURE	Tad Hunt, Anthony J. Tartano	15743017.4	1/29/2015	3103023	3/6/2019	Granted
SI430.10062FR01		PRIVATE CLOUD CONNECTED DEVICE CLUSTER ARCHITECTURE	Tad Hunt, Anthony J. Tartano	15743017.4	1/29/2015	3103023	3/6/2019	Granted
SI430.10062GB01		PRIVATE CLOUD CONNECTED DEVICE CLUSTER ARCHITECTURE	Tad Hunt, Anthony J. Tartano	15743017.4	1/29/2015	3103023	3/6/2019	Granted
SI430.10062US01		PRIVATE CLOUD CONNECTED DEVICE CLUSTER ARCHITECTURE	Tad Hunt, Anthony J. Tartano	14/171,651	2/3/2014	9,774,582	9/26/2017	Granted
SI430.10063US01		FORWARD-ONLY PAGED DATA STORAGE MANAGEMENT WHERE VIRTUAL CURSOR MOVES IN ONLY ONE DIRECTION FROM HEADER OF A SESSION TO DATA FIELD OF THE SESSION	Frank E. Barrus	14/055,662	10/16/2013	10,248,556	4/2/2019	Granted
SI430.10064US01		MANAGEMENT AND PROVISIONING OF CLOUD CONNECTED DEVICES	Tad Hunt, Anthony J. Tartano	14/105,099	12/12/2013	9,985,829	5/29/2018	Granted
SI430.10065US01		REPLICATION OF DATA BETWEEN MIRRORRED DATA SITES	Tad Hunt, John Howe	13/939,106	7/10/2013	9,934,242	4/3/2018	Granted
SI430.10066DE01		CONTENT BASED ORGANIZATION OF FILE SYSTEMS	Tad Hunt, Frank E. Barrus	15746801.8	2/4/2015	3103025	7/10/2019	Granted
SI430.10066EP01		CONTENT BASED ORGANIZATION OF FILE SYSTEMS	Tad Hunt, Frank E. Barrus	15746801.8	2/4/2015	3103025	7/10/2019	Granted
SI430.10066FR01		CONTENT BASED ORGANIZATION OF FILE SYSTEMS	Tad Hunt, Frank E. Barrus	15746801.8	2/4/2015	3103025	7/10/2019	Granted
SI430.10066GB01		CONTENT BASED ORGANIZATION OF FILE SYSTEMS	Tad Hunt, Frank E. Barrus	15746801.8	2/4/2015	3103025	7/10/2019	Granted
SI430.10066IE01		CONTENT BASED ORGANIZATION OF FILE SYSTEMS	Tad Hunt, Frank E. Barrus	15746801.8	2/4/2015	3103025	7/10/2019	Granted
SI430.10066US02		CONTENT BASED ORGANIZATION OF FILE SYSTEMS	Tad Hunt, Frank E. Barrus	14/614,266	2/4/2015	9,830,324	11/28/2017	Granted
SI430.10069US02		DATA SCRUBBING IN CLUSTER-BASED STORAGE SYSTEMS	Tad Hunt, Frank E. Barrus	14/309,796	6/19/2014	9,715,521	7/25/2017	Granted
SI430.10070US02		CONCURRENT, INCREMENTAL, AND GENERATIONAL MARK AND SWEEP GARBAGE COLLECTION	Jeremy Fitzhardinge	15/240,809	8/18/2016	10,379,779	8/13/2019	Granted
SI430.10071US02		STRUCTURAL DATA TRANSFER OVER A NETWORK	Jeremy Fitzhardinge	15/084,399	3/29/2016	10,474,654	11/12/2019	Granted
SI430.10072JP01		REFERENCE COUNT INTEGRITY CHECKING	Frank E. Barrus	2016-510740	4/22/2014	6110020	3/17/2017	Granted
SI430.10072US02		REFERENCE COUNTER INTEGRITY CHECKING	Frank E. Barrus	14/257,905	4/21/2014	9,552,382	1/24/2017	Granted
SI430.10073EM01		MODULAR ELECTRONICS CHASSIS	Tad Hunt, Peter Privitera, Jon Carner, Joshua Drucker, Douglas Brockett, Ramesh	002382549-0001	1/10/2014	002382549-0001	1/10/2014	Granted

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SI430.10073EM02		MODULAR ELECTRONICS CHASSIS	Balan Tad Hunt, Peter Privitera, Jon Carver, Joshua Druker, Douglas Brockett, Ramesh Balan	002382549-0002	1/10/2014	002382549-0002	1/10/2014	Granted
SI430.10073EM03		MODULAR ELECTRONICS CHASSIS	Balan Tad Hunt, Peter Privitera, Jon Carver, Joshua Druker, Douglas Brockett, Ramesh Balan	002382549-0003	1/10/2014	002382549-0003	1/10/2014	Granted
SI430.10073EM04		MODULAR ELECTRONICS CHASSIS	Balan Tad Hunt, Peter Privitera, Jon Carver, Joshua Druker, Douglas Brockett, Ramesh Balan	002382549-0004	1/10/2014	002382549-0004	1/10/2014	Granted
SI430.10073JP01		MODULAR ELECTRONICS CHASSIS	Balan Tad Hunt, Peter Privitera, Jon Carver, Joshua Druker, Douglas Brockett, Ramesh Balan	2014-000342	1/10/2014	1510699	10/3/2014	Granted
SI430.10073US01		MODULAR ELECTRONICS CHASSIS	Balan Tad Hunt, Peter Privitera, Jon Carver, Joshua Druker, Douglas Brockett, Ramesh Balan	29/460,435	7/10/2013	D750,033	2/23/2016	Granted
SI430.10074JP01		CRYPTOGRAPHIC HASH DATABASE	Balan Tad Hunt, Frank E. Barrus	2015-504768	4/8/2013	5996088	9/2/2016	Granted
SI430.10074US01		CRYPTOGRAPHIC HASH DATABASE	Balan Tad Hunt, Frank E. Barrus	13/441,715	4/6/2012	8,868,926	10/21/2014	Granted
SI430.10075US01		MODULAR ELECTRONICS CHASSIS	Balan Tad Hunt, Peter Privitera, Jon Carver, Joshua Druker, Douglas Brockett, Ramesh Balan	13/939,027	7/10/2013	8,991,950	3/31/2015	Granted
SI430.10076US02		HYBRID GARBAGE COLLECTION	Balan Tad Hunt, Frank E. Barrus	14/303,329	6/12/2014	9,514,137	12/6/2016	Granted
SI430.10077US01		MODULAR ELECTRONICS CHASSIS	Balan Tad Hunt, Peter Privitera, Jon Carver, Joshua Druker, Douglas Brockett, Ramesh Balan	13/900,358	5/22/2013	9,389,651	7/12/2016	Granted
SI430.10078US01		ORGANIZATION AND MANAGEMENT OF KEY-VALUE STORES	Balan Siddhar Subramaniam, Dong Cai	15/146,767	5/4/2016	9,846,553	12/19/2017	Granted

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