

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5992654

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
INTERNATIONAL BUSINESS MACHINES CORPORATION	06/11/2019
RECEIVING PARTY DATA	
Name:	PURE STORAGE, INC.
Street Address:	650 CASTRO STREET
Internal Address:	SUITE 400
City:	MOUNTAIN VIEW
State/Country:	CALIFORNIA
Postal Code:	94041
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16806123
CORRESPONDENCE DATA	
Fax Number:	(888)456-7824
<i>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.</i>	
Phone:	(512)480-2220
Email:	ktaylor@texaspatents.com
Correspondent Name:	GARLICK & MARKISON
Address Line 1:	100 CONGRESS AVENUE, SUITE 2000
Address Line 4:	AUSTIN, TEXAS 78701
ATTORNEY DOCKET NUMBER:	CS01254C1
NAME OF SUBMITTER:	KAREN TAYLOR
SIGNATURE:	/Karen Taylor/
DATE SIGNED:	03/03/2020
Total Attachments: 39	
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Form of Recordable Patent Assignment and Reservation

For good and valuable consideration, the receipt of which is hereby acknowledged, and subject to the reservations stated in the Patent Assignment Agreement Reference No. L190238 between the parties with an effective time and date of 11:59pm United States Eastern Time on June 11, 2019 ("Effective Time and Date") ("Patent Assignment Agreement"), International Business Machines Corporation, a New York corporation having a place of business at Armonk, New York (hereinafter "ASSIGNOR"), hereby grants and assigns to Pure Storage, Inc., a Delaware corporation having a place of business at Mountain View, California (hereinafter "ASSIGNEE"), all of IBM's right, title and interest in and to the patents and patent applications identified in Exhibits A-I, A-II, C-I and C-II, attached hereto, (hereinafter, collectively, "ASSIGNED PATENTS"), to have and to hold the same, unto ASSIGNEE for its own use and enjoyment and for the use and enjoyment of its successors and assigns, including all damages for infringement of any of the Assigned Patents and the sole right to sue therefore under such Assigned Patents, for the full term or terms of all such ASSIGNED PATENTS, subject to all rights granted under the ASSIGNED PATENTS to third parties prior to said Effective Time & Date.

ASSIGNOR hereby reserves and retains, for the benefit of itself and its subsidiaries and its and their successors and assigns, the rights and licenses set forth in the Patent Assignment Agreement.

IN WITNESS WHEREOF, ASSIGNOR has caused this Patent Assignment and Reservation to be duly signed on its behalf.

ASSIGNOR: INTERNATIONAL BUSINESS MACHINES CORPORATION

Signature: *Lisa M. Regan*
Date: June 13, 2019

Name: Lisa M. Regan
Title: Director, Research and Intellectual Property Finance

ASSIGNEE hereby accepts and acknowledges the assignment of ASSIGNED PATENTS as stated above.

ASSIGNEE: PURE STORAGE, INC.

DocuSigned by:
Signature: *Michael Moore*
Date: 6/19/2019

Name: Michael Moore
Title: VP & AGC

EXHIBIT A-I
LISTED PATENTS (United States)

IBM Docket Number	Country	Patent Number	Application Number	Filing Date	Issue Date
END920165001US2	US	10078472	14/984024	12/30/2015	9/18/2018
END920165002US2	US	10079887	15/006735	1/26/2016	9/18/2018
END920165005US10	US	10168904	15/457408	3/13/2017	1/1/2019
END920165005US2	US	10037171	15/058408	3/2/2016	7/31/2018
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END920165008US10	US	10061648	15/195252	6/28/2016	8/8/2018
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END920165667US2	US	9606867	14/680459	4/7/2015	3/28/2017
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END920165669US3	US	9735967	14/637348	3/3/2015	8/15/2017
END920165669US4	US	10171243	15/612885	6/2/2017	1/1/2019
END920165670US06	US	10296263	15/902083	2/22/2018	5/21/2019
END920165670US2	US	9612882	14/638175	3/4/2015	4/4/2017
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END920165671US3	US	10015152	15/217242	7/22/2016	7/3/2018
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END920165672US2	US	10020826	14/613899	2/4/2015	7/10/2018
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END920165681US4	US	9661075	14/328861	7/11/2014	5/23/2017
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END920165683US2	US	9626125	14/292009	5/30/2014	4/18/2017
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END920165684US6	US	10180880	15/686980	8/25/2017	1/15/2019
END920165685US05	US	10303548	15/920843	3/14/2018	5/28/2019
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END920165691US2	US	9898373	14/215335	3/17/2014	2/20/2018
END920165693US2	US	10075523	14/172140	2/4/2014	9/11/2018
END920165694US2	US	9274908	14/153366	1/13/2014	3/1/2016
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END920165695US2	US	9774678	14/153319	1/13/2014	9/26/2017
END920165696US2	US	9043499	14/103141	12/11/2013	5/26/2015
END920165696US3	US	9223653	14/704069	5/5/2015	12/29/2015
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END920165699US2	US	9311187	14/088794	11/25/2013	4/12/2016
END920165699US3	US	10013203	15/095558	4/11/2016	7/3/2018
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END920165711US3	US	9547548	15/012555	2/1/2016	1/17/2017
END920165711US4	US	9141297	13/890510	5/9/2013	9/22/2015
END920165711US5	US	10108484	15/346486	11/8/2016	10/23/2018
END920165711US6	US	10157011	15/350904	11/14/2016	12/18/2018
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END920165712US2	US	9619487	13/921095	6/18/2013	4/11/2017
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END920165713US5	US	10169229	15/347132	11/9/2016	1/1/2019
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END920165720US7	US	8930375	13/775734	2/25/2013	1/6/2015
END920165720US8	US	8935256	13/775769	2/25/2013	1/13/2015
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END920165721US3	US	9203901	13/707118	12/6/2012	12/1/2015
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END920165722US4	US	9507786	13/718961	12/18/2012	11/29/2016
END920165722US5	US	9465861	13/943352	7/16/2013	10/11/2016

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END920165722US7	US	9715504	15/213343	7/18/2016	7/25/2017
END920165722US8	US	9514132	13/718985	12/18/2012	12/6/2016
END920165722US9	US	9767109	15/215614	7/21/2016	9/19/2017
END920165723US10	US	9430286	13/865659	4/18/2013	8/30/2016
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END920165723US12	US	10120755	14/843092	9/2/2015	11/6/2018
END920165723US13	US	8898542	13/707502	12/6/2012	11/25/2014
END920165723US14	US	9304858	13/707525	12/6/2012	4/5/2016
END920165723US15	US	9015556	13/707542	12/6/2012	4/21/2015
END920165723US16	US	9292385	14/635178	3/2/2015	3/22/2016
END920165723US17	US	9740730	15/249800	8/29/2016	8/22/2017
END920165723US19	US	10104168	15/281430	9/30/2016	10/16/2018
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END920165723US20	US	10303521	15/341722	11/2/2016	5/28/2019
END920165723US22	US	9998540	15/403671	1/11/2017	6/12/2018
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END920165723US26	US	9817701	15/405203	1/12/2017	11/14/2017
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END920165723US8	US	9304857	13/707490	12/6/2012	4/5/2016
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END920165724US3	US	9495240	14/499570	9/29/2014	11/15/2016
END920165724US4	US	9842063	15/345262	11/7/2016	12/12/2017
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END920165726US3	US	9304843	13/611622	9/12/2012	4/5/2016
END920165726US4	US	8683286	13/611803	9/12/2012	3/25/2014
END920165726US5	US	9483337	14/223406	3/24/2014	11/1/2016
END920165726US6	US	8607122	13/611866	9/12/2012	12/10/2013
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END920165728US3	US	9104541	14/325604	7/8/2014	8/11/2015
END920165728US4	US	9785491	13/588286	8/17/2012	10/10/2017
END920165728US5	US	8782492	13/588350	8/17/2012	7/15/2014
END920165728US6	US	9262247	14/331596	7/15/2014	2/16/2016
END920165729US2	US	8677214	13/611962	9/12/2012	3/18/2014
END920165729US3	US	10216576	14/217662	3/18/2014	2/26/2019
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END920165729US6	US	9128870	14/480139	9/8/2014	9/8/2015
END920165729US7	US	9471426	14/819113	8/5/2015	10/18/2016
*END920165730US2	US	8930649	13/565562	8/2/2012	1/6/2015
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END920165730US6	US	10235237	15/629134	6/21/2017	3/19/2019
END920165731US2	US	9092385	13/587224	8/16/2012	7/28/2015
END920165731US3	US	9229823	13/587277	8/16/2012	1/5/2016
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END920165732US3	US	8914667	13/547887	7/12/2012	12/16/2014
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END920165735US10	US	10042709	15/414338	1/24/2017	8/7/2018
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END920165735US3	US	9400714	13/647528	10/9/2012	7/26/2016
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END920165735US5	US	9934091	15/190925	6/23/2016	4/3/2018
END920165735US6	US	9560133	13/464272	5/4/2012	1/31/2017
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END920165736US10	US	10255135	15/824340	11/28/2017	4/9/2019
END920165736US2	US	9842222	13/463991	5/4/2012	12/12/2017
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END920165736US6	US	8782439	13/464082	5/4/2012	7/15/2014
END920165736US7	US	9110593	14/331676	7/15/2014	8/18/2015
END920165736US8	US	10127402	15/341456	11/2/2016	11/13/2018
END920165736US9	US	9940195	15/718200	9/28/2017	4/10/2018
END920165737US3	US	9292682	13/450034	4/18/2012	3/22/2016
END920165737US4	US	8707393	13/450055	4/18/2012	4/22/2014
END920165738US2	US	9141458	13/450186	4/18/2012	9/22/2015
END920165738US3	US	9830222	14/844145	9/3/2015	11/28/2017
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END920165739US2	US	9219604	13/449950	4/18/2012	12/22/2015
END920165740US2	US	8627091	13/413232	3/6/2012	1/7/2014
END920165740US3	US	9894151	14/147982	1/6/2014	2/13/2018
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END920165742US06	US	10169129	16/047637	7/27/2018	1/1/2019
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END920165743US2	US	8868695	13/372611	2/14/2012	10/21/2014
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END920165744US3	US	8688949	13/343405	1/4/2012	4/1/2014
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END920165745US2	US	9081714	13/347140	1/10/2012	7/14/2015
END920165745US3	US	9081715	13/347204	1/10/2012	7/14/2015
END920165745US4	US	8726127	13/347266	1/10/2012	5/13/2014
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END920165746US2	US	8897443	13/309353	12/1/2011	11/25/2014
END920165746US3	US	8683231	13/309432	12/1/2011	3/25/2014
END920165746US4	US	9319463	13/309469	12/1/2011	4/19/2016
END920165746US5	US	10169146	15/131488	4/18/2016	1/1/2019
END920165747US2	US	8832493	13/308724	2/1/2011	9/9/2014
END920165747US3	US	9037904	14/479905	9/8/2014	5/19/2015
END920165747US4	US	9170882	13/308777	12/1/2011	10/27/2015
END920165747US5	US	9606869	14/875079	10/5/2015	3/28/2017
END920165747US6	US	8892845	13/308889	12/1/2011	11/18/2014
END920165747US8	US	9927977	15/426698	2/7/2017	3/27/2018
END920165748US2	US	8914669	13/291009	11/7/2011	12/16/2014
END920165748US3	US	9483398	13/291030	11/7/2011	11/1/2016
END920165748US4	US	9336139	13/291042	11/7/2011	5/10/2016
END920165748US5	US	9454431	14/035433	9/24/2013	9/27/2016
END920165749US4	US	10084770	13/289200	11/4/2011	9/25/2018
END920165749US5	US	9590838	14/029347	9/17/2013	3/7/2017
END920165750US4	US	9274977	13/270654	10/11/2011	3/1/2016
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END920165750US9	US	10289318	15/238165	8/16/2016	5/14/2019
END920165751US2	US	8707105	13/252410	10/4/2011	4/22/2014
END920165751US3	US	9122596	14/257398	4/21/2014	9/1/2015
END920165752US10	US	10298957	15/817104	11/17/2017	5/21/2019
END920165752US2	US	9112535	13/251566	10/3/2011	8/18/2015
END920165752US3	US	8612821	13/251587	10/3/2011	12/17/2013
END920165752US4	US	8839068	14/107204	12/16/2013	9/16/2014
END920165752US5	US	9037937	13/251603	10/3/2011	5/19/2015
END920165752US6	US	9843412	14/615655	2/6/2015	12/12/2017
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END920165752US8	US	8918693	13/251618	10/3/2011	12/23/2014
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END920165753US3	US	8656138	13/231375	9/13/2011	2/18/2014
END920165753US4	US	9141307	14/182755	2/18/2014	9/22/2015
END920165753US5	US	9424130	14/843049	9/2/2015	8/23/2016
END920165754US2	US	8621271	13/204039	8/5/2011	12/31/2013
END920165754US3	US	8762793	13/204050	8/5/2011	6/24/2014
END920165754US5	US	8904226	13/204057	8/5/2011	12/2/2014
END920165754US6	US	10157002	13/204061	8/5/2011	12/18/2018
END920165756US2	US	8627114	13/180675	7/12/2011	1/7/2014
END920165756US3	US	9063968	13/943520	7/16/2013	6/23/2015
END920165756US4	US	9143499	14/148198	1/6/2014	9/22/2015
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END920165756US8	US	10162524	15/427860	2/8/2017	12/25/2018
END920165758US10	US	9231768	13/154740	6/7/2011	1/5/2016
END920165758US11	US	8892598	13/154744	6/7/2011	11/18/2014
END920165758US2	US	8782227	13/154708	6/7/2011	7/15/2014
END920165758US3	US	9300477	14/331526	7/15/2014	3/29/2016
END920165758US4	US	10289688	13/154725	6/7/2011	5/14/2019
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END920165761US3	US	9009575	13/920766	6/18/2013	4/14/2015
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END920165761US9	US	8861727	13/097396	4/29/2011	10/14/2014
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END920165762US11	US	9235549	14/312163	6/23/2014	1/12/2016
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END920165762US16	US	9495117	14/454942	8/8/2014	11/15/2016
END920165762US17	US	9077734	13/180673	7/12/2011	7/7/2015
END920165762US18	US	8649399	13/080446	4/5/2011	2/11/2014
END920165762US19	US	9524267	14/176807	2/10/2014	12/20/2016
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END920165762US23	US	10146620	15/345309	11/7/2016	12/4/2018
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END920165762US4	US	9582459	14/223138	3/24/2014	2/28/2017
END920165762US5	US	8625636	13/080200	4/5/2011	1/7/2014
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END920165762US8	US	8625637	13/080286	4/5/2011	1/7/2014
END920165762US9	US	9514090	14/148380	1/6/2014	12/6/2016
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END920165764US12	US	8495466	12/983214	12/31/2010	7/23/2013
END920165764US13	US	8627178	13/946136	7/19/2013	1/7/2014
END920165764US14	US	9110819	14/148652	1/6/2014	8/18/2015
END920165764US15	US	9229824	14/453176	8/6/2014	1/5/2016
END920165764US16	US	9170884	14/453241	8/6/2014	10/27/2015
END920165764US17	US	8527705	12/983221	12/31/2010	9/3/2013
END920165764US18	US	10268374	15/276903	9/27/2016	4/23/2019
END920165764US2	US	9311184	12/983226	12/31/2010	4/12/2016
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END920165768US17	US	10044807	15/839457	12/12/2017	8/7/2018
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END920165768US25	US	10270858	16/024669	6/29/2018	4/23/2019
END920165768US26	US	10305989	16/170817	10/25/2018	5/28/2019
END920165768US27	US	10305990	16/205780	11/30/2018	5/28/2019
END920165768US3	US	8826067	14/062478	10/24/2013	9/2/2014
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END920165768US5	US	8549351	12/954137	11/24/2010	10/1/2013
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END920165769US2	US	8885821	12/954875	11/28/2010	11/11/2014
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END920165770US07	US	9900387	15/681026	8/18/2017	2/20/2018
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END920165770US3	US	9201732	14/446703	7/30/2014	12/1/2015
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END920165775US4	US	10097518	13/919210	6/17/2013	10/9/2018
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END920165776US2	US	8762343	12/902684	10/12/2010	6/24/2014
END920165776US3	US	9679153	14/312532	6/23/2014	6/13/2017
END920165776US4	US	9489533	14/312550	6/23/2014	11/8/2016
END920165777US10	US	9760286	15/451906	3/7/2017	9/12/2017
END920165777US11	US	9823845	15/612750	6/2/2017	11/21/2017
END920165777US2	US	8819452	12/885124	9/17/2010	8/26/2014
*END920165777US3	US	9021273	14/316336	6/26/2014	4/28/2015
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END920165777US5	US	9043616	14/336189	7/21/2014	5/26/2015
END920165777US6	US	9747457	14/705752	5/6/2015	8/29/2017
END920165777US7	US	8458233	12/885244	9/17/2010	6/4/2013
END920165777US8	US	8762346	13/908516	6/3/2013	6/24/2014
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END920165779US3	US	9268641	14/230253	3/31/2014	2/23/2016
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END920165783US12	US	9965354	15/089943	4/4/2016	5/8/2018
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END920165783US15	US	9858143	15/230108	8/5/2016	1/2/2018
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END920165783US7	US	8631303	13/932320	7/1/2013	1/14/2014
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END920165783US9	US	9063658	14/288453	5/28/2014	6/23/2015
END920165784US2	US	8589637	12/817171	6/16/2010	11/19/2013
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END920165784US4	US	8522022	12/817201	6/17/2010	8/27/2013
END920165785US2	US	8351600	12/814467	6/13/2010	1/8/2013
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END920165785US9	US	9819484	15/230145	8/5/2016	11/14/2017
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END920165786US3	US	9195408	14/290549	5/29/2014	11/24/2015
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END920165787US2	US	10142115	12/837961	7/16/2010	11/27/2018
END920165787US3	US	9501355	14/302974	6/12/2014	11/22/2016
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END920165788US2	US	8402344	12/797208	6/9/2010	3/19/2013
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END920165789US2	US	8281181	12/778647	5/12/2010	10/2/2012
END920165789US3	US	8381025	12/778663	5/12/2010	2/19/2013
END920165789US4	US	8448020	13/524346	6/15/2012	5/21/2013
END920165789US5	US	8478937	12/778680	5/12/2010	7/2/2013
END920165789US6	US	10209903	13/779469	2/27/2013	2/19/2019
END920165789US7	US	9448730	12/778701	5/12/2010	9/20/2016
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END920165790US4	US	8918534	12/777864	5/11/2010	12/23/2014
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END920165790US6	US	8473677	12/777904	5/11/2010	6/25/2013
END920165790US7	US	9274890	13/925270	6/24/2013	3/1/2016
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END920165791US3	US	9313293	14/540305	11/13/2014	4/12/2016
END920165791US4	US	10031804	15/095402	4/11/2016	7/24/2018
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END920165792US5	US	9076138	12/817165	6/16/2010	7/7/2015
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END920165797US3	US	9690513	12/749606	3/30/2010	6/27/2017
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END920165799US14	US	9405607	14/014692	8/30/2013	8/2/2016
END920165799US15	US	10007574	15/224784	8/1/2016	6/26/2018
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END920165907US2	US	9424326	13/959702	8/5/2013	8/23/2016
END920165907US3	US	10013471	15/223707	7/29/2016	7/3/2018
END920165907US4	US	9483539	13/959727	8/5/2013	11/1/2016
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END920165668US4	US	10152601	14/675360	3/31/2015	12/11/2018
END920165674US04	US	10140182	15/841759	12/14/2017	11/27/2018
END920165675US2	US	9778987	14/570366	12/15/2014	10/3/2017
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END920165736US7	US	9110593	14/331676	7/15/2014	8/18/2015
END920165738US3	US	9830222	14/844145	9/3/2015	11/28/2017
END920165740US5	US	9137303	14/524037	10/27/2014	9/15/2015
END920165741US3	US	9110834	14/480945	9/9/2014	8/18/2015
END920165741US5	US	9135114	14/481245	9/9/2014	9/15/2015
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END920165744US4	US	8914609	14/230446	3/31/2014	12/16/2014
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