

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5870525

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT

**CONVEYING PARTY DATA**

Name	Execution Date
INGERSOLL-RAND COMPANY	11/30/2019

**RECEIVING PARTY DATA**

<b>Name:</b>	INGERSOLL-RAND INDUSTRIAL U.S., INC.
<b>Street Address:</b>	800-E BEATY STREET
<b>City:</b>	DAVIDSON
<b>State/Country:</b>	NORTH CAROLINA
<b>Postal Code:</b>	28036

**PROPERTY NUMBERS Total: 75**

Property Type	Number
Patent Number:	9447763
Patent Number:	9702358
Patent Number:	9117348
Patent Number:	10161271
Patent Number:	9284956
Application Number:	15069184
Patent Number:	9555532
Patent Number:	9486908
Patent Number:	9597784
Patent Number:	9871427
Patent Number:	9621013
Patent Number:	9680351
Application Number:	15156728
Patent Number:	9849413
Patent Number:	9724631
Patent Number:	9669535
Patent Number:	9796073
Patent Number:	9434013
Patent Number:	9701006
Application Number:	14957965

PATENT

<b>Property Type</b>	<b>Number</b>
<b>Patent Number:</b>	9289878
<b>Application Number:</b>	14213952
<b>Application Number:</b>	14084221
<b>Patent Number:</b>	10253649
<b>Application Number:</b>	16377950
<b>Application Number:</b>	14973955
<b>Application Number:</b>	15958046
<b>Patent Number:</b>	9669526
<b>Patent Number:</b>	9341003
<b>Application Number:</b>	14964125
<b>Patent Number:</b>	9926159
<b>Patent Number:</b>	9846149
<b>Patent Number:</b>	10359240
<b>Patent Number:</b>	9017209
<b>Patent Number:</b>	9222528
<b>Application Number:</b>	14242770
<b>Patent Number:</b>	9890023
<b>Patent Number:</b>	10427921
<b>Application Number:</b>	14242353
<b>Patent Number:</b>	9592591
<b>Patent Number:</b>	9573254
<b>Patent Number:</b>	9463557
<b>Patent Number:</b>	9469017
<b>Patent Number:</b>	9605664
<b>Patent Number:</b>	9221656
<b>Application Number:</b>	15620459
<b>Patent Number:</b>	9550283
<b>Patent Number:</b>	9915265
<b>Patent Number:</b>	9845794
<b>Patent Number:</b>	9272400
<b>Patent Number:</b>	10042371
<b>Patent Number:</b>	10208754
<b>Application Number:</b>	16272381
<b>Patent Number:</b>	9546660
<b>Patent Number:</b>	10030694
<b>Patent Number:</b>	9539715
<b>Patent Number:</b>	9434056
<b>Patent Number:</b>	9831746

Property Type	Number
Patent Number:	9737978
Patent Number:	10180147
Patent Number:	9669346
Patent Number:	9915237
Patent Number:	8333574
Patent Number:	8758146
Patent Number:	9901980
Application Number:	14941895
Patent Number:	9682336
Application Number:	15162243
Application Number:	14530177
Patent Number:	9566826
Patent Number:	9592600
Application Number:	14539093
Application Number:	14959673
Application Number:	14870607
Patent Number:	9677551

**CORRESPONDENCE DATA**

**Fax Number:** (202)416-7212

*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:** 2028356212

**Email:** nhia.lee@bakermckenzie.com

**Correspondent Name:** BAKER & MCKENZIE LLP

**Address Line 1:** 815 CONNECTICUT AVENUE, NW

**Address Line 2:** ATTN: NHIA LEE

**Address Line 4:** WASHINGTON, D.C. 20006

**ATTORNEY DOCKET NUMBER:** 50639022-0000

**NAME OF SUBMITTER:** NHIA LEE

**SIGNATURE:** /Nhia Lee/

**DATE SIGNED:** 12/16/2019

**Total Attachments: 63**

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## PATENT ASSIGNMENT AGREEMENT

This PATENT ASSIGNMENT AGREEMENT (this “Agreement”), dated as of **November 30, 2019**, is made by and between **Ingersoll-Rand Company**, a company organized under the laws of the state of New Jersey in the United States of America (USA) having an address at 800-E Beaty Street, Davidson, NC 28036, United States (the “Assignor”) and **Ingersoll-Rand Industrial U.S., Inc.**, a Delaware corporation having an address at 800-E Beaty Street, Davidson, NC 28036, United States (the “Assignee”).

### WITNESSETH:

WHEREAS, Ingersoll-Rand plc and Ingersoll-Rand U.S. HoldCo, Inc. entered into that certain Separation and Distribution Agreement dated as of April 30, 2019 (the “Separation and Distribution Agreement”), and plan to enter into that certain Intellectual Property Matters Agreement (together with the Separation and Distribution Agreement, in each case as such agreements are amended, restated, supplemented or otherwise modified from time to time, the “Separation Agreements”);

WHEREAS, pursuant to the Separation and Distribution Agreement, Assignor and Assignee entered into that certain Business Contribution Agreement dated as of November 30, 2019 (as amended, restated, supplemented or otherwise modified from time to time, the “BCA”); and

WHEREAS, pursuant to the Separation Agreements and the BCA, the Assignor hereby agrees to sell, assign, transfer and deliver to the Assignee, and the Assignee hereby agrees to purchase and acquire from the Assignor, all of the Assignor’s right, title and interest in, to and under the Patents listed in Schedule 1 hereto (the “Assigned Patents”).

NOW, THEREFORE, in consideration of the mutual agreements, provisions and covenants contained herein and in the BCA and the Separation Agreements, the parties hereto, intending to be legally bound, hereby agree as follows:

Section 1. Definitions. Capitalized terms used herein and not defined herein have the meanings set forth in the Separation Agreements.

Section 2. Assignment. Assignor hereby sells, transfers, conveys, assigns and delivers to the Assignee, and the Assignee hereby purchases, assumes and accepts from the Assignor, all of the Assignor’s right, title and interest in, to and under the Assigned Patents, including without limitation, (a) all income, royalties, profits, and damages related thereto; (b) the right, if any, to register, prosecute, maintain and defend the Assigned Patents before any public or private agency or registrar; (c) the right to bring actions, defend against or otherwise recover damages or other compensation for past, present or future infringements, dilutions, misappropriations, or other violations of the Assigned Patents, including the right to sue and obtain equitable relief in respect of such infringements, dilutions, misappropriations and other violations; and (d) the right to fully and entirely stand in the place of the Assignor in all matters related thereto.

Section 3. Governing Law. Any disputes arising out of or relating to this Agreement, including, without limitation, to its execution, performance or enforcement, shall be governed by, and construed in

accordance with, the Laws of the State of Delaware, regardless of the Laws that might otherwise govern under applicable principles of conflicts of Laws thereof.

Section 4. Entire Agreement. This Agreement, together with the Separation Agreements, the BCA, and the Exhibits and Schedules hereto and thereto, contain the entire agreement between the parties hereto with respect to the subject matter hereof and supersede all previous agreements, negotiations, discussions, writings, understandings, commitments and conversations with respect to such subject matter, and there are no agreements or understandings between the parties hereto with respect to the subject matter hereof other than those set forth or referred to herein or therein. No provisions of this Agreement shall be deemed waived, amended, supplemented or modified by any party hereto, unless such waiver, amendment, supplement or modification is in writing and signed by the authorized representative of each party hereto. The parties hereto intend that this Agreement is for recordation purposes only and its terms shall not modify and shall be subject to the applicable terms and conditions of the Separation Agreements and the BCA, which govern the parties' rights and interests in the Assigned Patents. In the event of a conflict between this Agreement and the Separation Agreements, the terms of the Separation Agreements shall govern.

Section 5. Further Assurances. Each Party covenants and agrees that, without any additional consideration, it shall execute and deliver any further legal instruments and perform any acts that are or may become necessary to effectuate this Agreement.

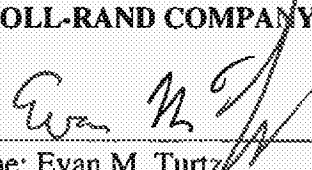
Section 6. Counterparts. This Agreement may be executed in one or more counterparts, all of which counterparts shall be considered one and the same agreement, and shall become effective when one or more counterparts have been signed by each party hereto and delivered to the other party. This Agreement may be executed by facsimile or PDF signature and scanned and exchanged by electronic mail, and such facsimile or PDF signature or scanned and exchanged copies shall constitute an original for all purposes.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed by their duly authorized representatives.

ASSIGNOR:

**INGERSOLL-RAND COMPANY**


By: \_\_\_\_\_

  
Name: Evan M. Turtz  
Title: Senior Vice President,  
General Counsel and Secretary

ASSIGNEE:

**INGERSOLL-RAND INDUSTRIAL U.S., INC.**

By: \_\_\_\_\_

  
Name: Richard E. Daudelin  
Title: Treasurer



SCHEDULE 1

Patent Ref.	Country	Type	App. No.	Int. Specific App. No.	Filed Date	Patent No.	Int. Specific Pat. No.	Grant Date
030351BE01	Belgium	Utility	07718005.7		2007-01-11	1974146		2018-10-31
030950BE01	Belgium	Utility	08744960.9		2008-04-02	2150704		2017-08-09
031072BE01	Belgium	Utility	09767192.9		2009-04-29	2310688		2017-06-07
031495BE01	Belgium	Utility	10787231.9		2010-11-30	2531732		2019-03-06
10118BE01	Belgium	Utility	12764811.1		2012-04-02	2694899		2017-08-02
10929BE01	Belgium	Utility	10844108.0		2010-01-22	2526297		2016-04-20
10932BE01	Belgium	Utility	11733423.5		2012-07-04	2524143		2017-08-09
17815BE01	Belgium	Utility	14181567.0		2014-08-20	2860401		2016-06-01
17903BE01	Belgium	Utility	14163017.8		2014-04-01	2787216		2017-07-26
18335BE01	Belgium	Utility	15170228.9		2015-06-02	2952747		2018-03-21
4146	Belgium	Utility	06250854.4		2006-02-17	1693582		2009-04-08
11308BR01	Brazil	Design	DI5901656-6		1999-08-24	DI5901656-6		2000-03-08
4103	Brazil	Utility	PI0706601-5		2007-01-11			
5246	Brazil	Utility	PI0707952-4		2007-02-15			
5631	Brazil	Utility	PI0916340-9		2009-04-29			
10074CA01	Canada	Utility	2413392		2002-12-03	2413392		2010-11-02
10077CA01	Canada	Utility	2459130		2004-02-26	2459130		2011-05-31
10079CA01	Canada	Utility	2440520		2003-09-10	2440520		2009-12-29
10080CA01	Canada	Utility	2439670		2003-09-05	2439670		2011-03-01
10089CA01	Canada	Utility	2574324		2007-01-18	2574324		2013-11-12
10932CA01	Canada	Utility	2786559		2012-07-05	2786559		2017-05-02
11796CA01	Canada	Utility	2450396		2003-11-24	2450396		2009-01-20
11895CA01	Canada	Utility	2516504		2005-08-19	2516504		2013-03-12
11895CA02	Canada	Utility	2804677		2005-08-19	2804677		2015-01-06
11903CA01	Canada	Utility	2460103		2004-03-03	2460103		2012-12-04
11907CA01	Canada	Utility	2459512		2004-03-04	2459512		2012-05-15
11908CA01	Canada	Utility	2459679		2004-03-04	2459679		2011-09-13
12473CA01	Canada	Utility	2586754		2007-04-30	2586754		2014-07-08
12475CA01	Canada	Utility	2607667		2007-10-25	2607667		2014-06-17
32118CA01	Canada	Utility	2973008		2017-07-11			
32307CA01	Canada	Utility	2975819		2017-08-10			
5632	Canada	Utility	2726294		2009-04-29	2726294		2017-06-13
8018	Canada	Utility	2837293		2012-03-02	2837293		2019-06-25
10104CN01	China	Design	201130241095.		2011-07-21	301877464		2012-04-04
11025CN01	China	Design	201230024229.		2012-02-08	302042883		2012-08-22
11026CN01	China	Design	201230024255.		2012-02-08	302325850		2013-02-20
11027CN01	China	Design	201230024240.		2012-02-08	302199083		2012-11-28
11030CN01	China	Design	201230571819.		2012-11-23	302533073		2013-08-14

PATENT

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Patent Ref	Country	Type	App. No.	Int. Specific App. No.	Filed Date	Patent No.	Int. Specific Pat. No.	Grant Date
11031US03	China	Design	201230571820.		2012-11-23	302617577		2013-10-30
11948CN01	China	Design	201030125843.		2010-02-23	301426405		2010-12-19
11949CN01	China	Design	201030125835.		2010-02-23	301391090		2010-11-24
11950CN01	China	Design	200930286449.		2009-12-04	301334618		2009-12-04
13513CN01	China	Design	201330610865.		2013-12-10	302854688		2014-06-25
14002CN01	China	Design	201330054853. X		2013-03-06	302734122		2014-02-12
14085CN01	China	Design	201330611355. 0		2013-12-10	ZL201330611355.0		2014-07-16
14086CN01	China	Design	201330611040. 6		2013-12-10	302879595		2014-07-16
14097CN01	China	Design	201330610873. 0		2013-12-10	302901664		2014-08-06
17666CN01	China	Design	201330611063. 7		2013-12-10	302914891		2014-08-20
17670CN01	China	Design	201330323108. 0		2013-07-11	302748686		2014-02-26
18175CN01	China	Design	201330612045. 0		2013-12-10	302879596		2014-07-16
18500CN01	China	Design	201430140771. 1		2014-05-20	302999174		2014-11-12
18699CN01	China	Design	201530049500. X		2015-02-26	ZL201530049500.X		2015-09-16
32122CN01	China	Design	201530501368. 1		2015-12-04	ZL201530501368.1		2016-05-25
031974CN01	China	Utility	201480043113. 8		2014-04-28	ZL201480043113.8		2018-04-06
031975CN01	China	Utility	201480043125. 0		2014-04-28	ZL201480043125.0		2019-02-22
031976CN01	China	Utility	201480043084. 5		2014-04-28	ZL201480043084.5		2019-07-16
031977CN01	China	Utility	201480043157. 0		2014-04-28	ZL201480043157.0		2017-11-14
10098CN01	China	Utility	201080006115. 1		2010-02-02	102301125		2015-07-29
10102CN01	China	Utility	201180016766. 3		2011-01-28	102812246		2015-01-28

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Patent Ref	Country	Type	App. No.	Int. Specific App. No.	Filed Date	Patent No.	Int. Specific Pat. No.	Grant Date
10103CN01	China	Utility	201180016910.3		2011-01-28	102859194		2015-10-07
10108CN01	China	Utility	200510125375.1		2005-11-16	1815022		2012-01-11
10115CN01	China	Utility	201080065661.2		2010-10-28	ZL201080065661.2		2016-03-02
10116CN01	China	Utility	201180067405.1		2011-02-10	ZL201180067405.1		2016-04-13
10117CN01	China	Utility	201080070296.4		2010-09-23			
10118CN01	China	Utility	201280026346.8		2012-04-02	ZL201280026346.8		2015-11-25
10254CN01	China	Utility	201080066080.0		2010-04-09	ZL201080066080.0		2015-09-30
10483CN01	China	Utility	200580025432.7		2005-07-27	100538248		2009-09-09
10484CN01	China	Utility	200580028542.9		2005-06-29	100582489		2010-01-20
10485CN01	China	Utility	200680019878.3		2006-06-05	101189054		2011-01-19
10486CN01	China	Utility	200680019767.2		2006-06-05	101189415		2012-06-13
10490CN01	China	Utility	200680034426.2		2006-09-19	101297118		2011-09-28
10495CN01	China	Utility	200680033335.7		2006-09-13	101263306		2013-06-19
10496CN01	China	Utility	200680033334.2		2006-09-13	101365883		2013-06-19
10501CN01	China	Utility	200780013365.6		2007-02-13	101421519		2012-07-04
10502CN01	China	Utility	200680049928.2		2006-12-28	101351647		2011-05-18
10831CN01	China	Utility	200202821242.8		2002-10-22	1320278		2007-06-06
10838CN01	China	Utility	200210033333.1		2002-01-31	1283925		2006-11-08
10839CN01	China	Utility	200210033332.3		2002-01-31	100402861		2008-07-16

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Patent Ref	Country	Type	App. No.	Int. Specific App. No.	Filed Date	Patent No.	Int. Specific Pat. No.	Grant Date
10874CN01	China	Utility	200580017094.2		2005-01-24	100429447		2008-10-29
10894CN01	China	Utility	200710005348.X		2007-02-14	101025310		2010-10-20
10906CN01	China	Utility	200680013284.1		2006-02-24	101163887		2013-05-22
10908CN01	China	Utility	200710103571.8		2007-02-17	101042141		2013-04-24
10913CN01	China	Utility	200810175439.2		2008-11-12	101435426		2013-05-29
10914CN01	China	Utility	200710169133.1		2007-11-14	101244348		2011-04-20
10915CN01	China	Utility	200810099587.0		2008-05-15	101307965		2011-07-20
10926CN01	China	Utility	200980163248.7		2012-07-03	ZL200980163248.7		2015-01-28
10927CN01	China	Utility	201080047000.7		2010-02-12	ZL201080047000.7		2016-03-09
10929CN01	China	Utility	201080065672.0		2010-01-22	ZL201080065672.0		2015-11-25
10932CN01	China	Utility	201180006205.5		2011-01-14	ZL201180006205.5		2016-01-20
11012CN01	China	Utility	201280016835.5		2012-04-04	ZL_201280016835.5		2016-01-27
11014CN01	China	Utility	201180069729.9		2011-03-31	ZL201180069729.9		2016-10-19
11016CN01	China	Utility	201180069727.X		2011-03-31	ZL201180069727.X		2016-08-24
11018CN01	China	Utility	201180064130.6		2011-11-04	ZL201180064130.6		2015-12-09
11020CN01	China	Utility	201190001136.4		2011-06-29	204094755		2015-01-14
11021CN01	China	Utility	201180073917.9		2011-08-01	ZL201180073917.9		2016-07-06
11023CN01	China	Utility	201180073918.3		2011-08-01	ZL200180073918.3		2017-02-08
11024CN01	China	Utility	201280025879.4		2012-08-01	ZL201280025879.4		2016-07-27

PATENT

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SCHEDULE 1

Patent Ref	Country	Type	App. No.	Int. Specific App. No.	Filed Date	Patent No.	Int. Specific Pat. No.	Grant Date
11028CN02	China	Utility	201310028215.X		2013-01-25	ZL201310028215.X		2017-04-12
11029CN02	China	Utility	201310338465.3		2013-03-05	ZL201310338465.3		2017-06-13
11033CN01	China	Utility	201380051684.1		2013-08-02	ZL201380051684.1		2018-12-25
11938CN01	China	Utility	200810210259.3		2008-08-11	101362319		2013-03-13
11940CN01	China	Utility	200810188483.7		2008-12-22	101575987		2014-04-30
11941CN01	China	Utility	200910118442.5		2009-02-27	101644348		2013-06-12
11943CN01	China	Utility	200980150095.2		2009-12-04	102239031		2014-08-27
11944CN01	China	Utility	201080014852.6		2010-03-09	102378660		2013-11-27
11951CN01	China	Utility	201080023932.8		2010-05-05	102448675		2015-08-26
11952CN01	China	Utility	200980161610.7		2009-10-15	102741149		2015-03-11
11953CN01	China	Utility	201280010271.4		2012-02-21	ZL201280010271.4		2016-08-24
11953CN02	China	Utility	201610580589.6		2012-02-21	ZL201610580589.6		2019-06-07
13017CN01	China	Utility	201811131717.4		2018-09-27			
13023CN01	China	Utility	201380048657.9		2013-09-18	ZL201380048657.9		2018-02-13
13026CN01	China	Utility	201410085220.9		2014-03-10	ZL201410085220.9		2016-09-07
13032CN01	China	Utility	201410084320.X		2014-03-10	ZL201410084320.X		2016-08-17
13040CN01	China	Utility	201510043163.2		2015-01-16	ZL201510043163.2		2018-10-23
13051CN01	China	Utility	201380059570.1		2013-09-14	ZL201380059570.1		2018-03-23
13059CN01	China	Utility	201510043188.2		2015-01-16	ZL201510043188.2		2018-10-19

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Patent Ref	Country	Type	App. No.	Int. Specific App. No.	Filed Date	Patent No.	Int. Specific Pat. No.	Grant Date
13071CN01	China	Utility	201380059339.2		2013-09-14	ZL201380059339.2		2017-03-22
13362CN01	China	Utility	201310721934.X		2013-12-24	ZL201310721934.X		2016-09-07
13453CN01	China	Utility	201410212538.9		2014-05-20	ZL201410212538.9		2016-08-24
14001CN01	China	Utility	201380052987.5		2013-10-10	ZL201380052987.5		2016-12-07
14001CN02	China	Utility	201380052832.1		2013-10-10	ZL201380052832.1		2017-03-29
14001CN03	China	Utility	201380052960.6		2013-10-10	ZL201380052960.6		2017-05-31
14003CN01	China	Utility	201380056262.3		2013-08-27	ZL201380056262.3		2017-05-31
14008CN01	China	Utility	201310671983.7		2013-12-11	ZL201310671983.7		2016-09-07
14078CN01	China	Utility	201510086863.X		2015-02-17	ZL201510086863.X		2017-08-04
14091CN01	China	Utility	201410327803.8		2014-07-11	201410327803.8		2018-11-02
17665CN01	China	Utility	201410548732.4		2014-10-16	ZL201410548732.4		2017-06-09
17672CN01	China	Utility	201511010786.6		2015-12-30			
17683CN01	China	Utility	201910316521.0		2019-04-19			
17745CN01	China	Utility	201511036119.5		2015-12-30			
17761CN01	China	Utility	201610407405.6		2016-06-12	ZL201610407405.6		2019-05-10
17815CN01	China	Utility	201410557670.3		2014-08-20	ZL201410557670.3		2018-11-06
17917CN01	China	Utility	201510253282.0		2015-05-18	ZL201510253282.0		2019-02-15
18155CN01	China	Utility	201510006898.8		2015-01-07	ZL201510006898.8		2017-04-12
18158CN01	China	Utility	201480051484.0		2016-03-18	ZL201480051484.0		2017-04-26

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18162CN01	China	Utility	201810593439.8		2018-06-11			
18165CN01	China	Utility	201410024958.4		2014-01-20	ZL201410024958.4		2017-10-27
18222CN01	China	Utility	201511011159.4		2015-12-30			
18223CN01	China	Utility	201410499408.8		2014-09-25	ZL201410499408.8		2018-01-19
18225CN01	China	Utility	201310681033.2		2013-12-12	ZL201310681033.2		2017-04-12
18335CN01	China	Utility	201510433561.5		2015-06-02			
18410CN01	China	Utility	201510924927.9		2015-10-27			
18450CN01	China	Utility	201510405897.0		2015-05-27	ZL201510405897.0		2018-08-10
18504CN01	China	Utility	20148003161.4		2014-11-10	104871412		2019-10-18
18512CN01	China	Utility	201510510398.5		2015-05-27			
18569CN01	China	Utility	201710363340.4		2017-05-22			
18573CN01	China	Utility	201511036012.0		2015-10-30			
18584CN01	China	Utility	201510173007.8		2015-04-13			
18591CN01	China	Utility	201510762293.1		2015-11-10			
18617CN01	China	Utility	201580018970.7		2015-02-04			
18629CN01	China	Utility	201610479855.6		2016-06-27			
18685CN01	China	Utility	201510398703.9		2015-05-13	ZL201510398703.9		2019-02-12
18691CN02	China	Utility	201680031739.6		2016-06-03			
18758CN01	China	Utility	201510379335.3		2015-07-01			

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18759CN01	China	Utility	201680031740. 9		2016-06-03			
18760CN02	China	Utility	201680031397. 8		2016-06-03			
18761CN02	China	Utility	201680031488. 1		2016-06-03			
18820CN01	China	Utility	201180073307. 9		2011-09-09	ZL201180073307.9		2017-02-15
18848CN01	China	Utility	201680046853. 6		2016-06-16			
18891CN01	China	Utility	201680031710. 8		2016-06-03			
18894CN01	China	Utility	201610730438. 4		2016-08-26			
18894CN02	China	Utility	201610730742. 9		2016-08-26			
18905CN01	China	Utility	201702675708. 3		2017-04-21			
18921CN01	China	Utility	201611029105. 5		2016-11-22			
18946CN01	China	Utility	201710317137. 3		2017-05-08			
18986CN01	China	Utility	201811569396. 6		2018-12-21			
19033CN01	China	Utility	201680031738. 1		2016-06-03			
32118CN01	China	Utility	201710580521. 2		2017-07-17			
32142CN01	China	Utility	201910129296. X		2019-02-21			
32173CN01	China	Utility	201510294579. 1		2015-06-02			
32263CN02	China	Utility	201710254244. 6		2017-04-18			
32263CN03	China	Utility	201710253735. 9		2017-04-18	ZL201710253735.9		2019-05-10
32277CN01	China	Utility	201710880509. 3		2017-09-26			



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32279CN01	China	Utility	201710325397.5		2017-03-20			
32282CN01	China	Utility	201710834904.8		2017-09-15			
32488CN01	China	Utility	201780062409.8		2017-10-10			
32509CN01	China	Utility	201711444346.0		2017-12-27			
32517CN01	China	Utility	201810816883.1		2018-07-24			
32558CN01	China	Utility	201710701638.1		2017-08-16			
32560CN01	China	Utility	201710701664.4		2017-08-16			
32561CN01	China	Utility	201710703251.X		2017-08-16			
32647CN01	China	Utility	201780065547.1		2017-10-24			
32648CN01	China	Utility	201780065195.X		2017-10-24			
32663CN01	China	Utility	201810967318.5		2018-08-23			
32671CN01	China	Utility	201810843208.8		2018-07-27			
32825CN01	China	Utility	201811122704.0		2018-09-26			
32880CN01	China	Utility	201811142874.5		2018-09-28			
32994CN01	China	Utility	201811339958.8		2018-11-12			
33008CN01	China	Utility	201810826577.6		2018-07-25			
33015CN01	China	Utility	201910411448.5		2019-05-17			
33072CN01	China	Utility	201811324063.7		2018-11-08			
33080CN01	China	Utility	201811324254.3		2018-11-08			

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33123CN01	China	Utility	20190312729.5		2019-04-18			
33174CN01	China	Utility	201910156630.0		2019-03-01			
33340CN01	China	Utility	201810978705.9		2018-08-24			
33344CN01	China	Utility	201910526535.5		2019-06-18			
6472	China	Utility	201080041658.7		2010-07-19	ZL201080041658.7		2015-11-25
6492	China	Utility	201080041887.9		2010-07-19	ZL201080041887.9		2016-01-13
7220	China	Utility	201080063194.X		2010-11-30	ZL 201080063194.X		2016-11-23
7459	China	Utility	201180035469.3		2011-04-19	ZL201180035469.3		2016-12-28
7462	China	Utility	201180035467.4		2011-04-19	ZL201180035467.4		2016-08-17
8017	China	Utility	201280025426.1		2012-03-02	ZL201280025426.1		2017-11-17
11015CN01	China	Utility Model	201320722626.4		2013-09-30	203712650		2014-07-16
11028CN01	China	Utility Model	201320040591.6		2013-01-25	203317386		2013-12-04
11029CN01	China	Utility Model	201320476978.6		2013-03-05	203557353		2014-04-23
11032CN02	China	Utility Model	201320289445.7		2013-05-24	203579367		2014-05-07
10932CZ01	Czechia	Utility	11733423.5		2012-07-04	2524143		2017-08-09
11943CZ01	Czechia	Utility	09831192.1		2009-12-04	2352622		2018-05-02
030377EP01	EPO	Utility	06250854.4		2006-02-17	1693582		2015-08-26
031092EP02	EPO	Utility	08858602.9		2008-11-13	2235464		2019-05-08
031974EP01	EPO	Utility	14727137.3		2014-04-28			
031975EP01	EPO	Utility	14727136.5		2014-04-28			

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031976EP01	EPO	Utility	14727135.7		2014-04-28			
031977EP01	EPO	Utility	14727138.1		2014-04-28			
10072EP01	EPO	Utility	02251990.4		2002-03-20	1253288		2007-09-12
10075EP01	EPO	Utility	02251991.2		2002-03-20	1249607		2006-05-31
10077EP01	EPO	Utility	04250883.8		2004-02-19	1460270		2008-06-11
10077EP02	EPO	Utility	08008812.3		2004-02-19	1956242		2011-04-20
10080EP01	EPO	Utility	03255549.2		2003-09-05	1396637		2011-06-01
10089EP01	EPO	Utility	07250171.1		2007-01-17	1813810		2009-09-23
10091EP01	EPO	Utility	05010865.3		2005-05-19	1607632		2009-02-18
10091EP02	EPO	Utility	08167111.7		2005-05-19	2012012		2010-10-20
10094EP01	EPO	Utility	08153032.1		2008-03-19	1983188		2013-07-03
10095EP01	EPO	Utility	08153039.6		2008-03-19	1992814		2011-11-23
10096EP01	EPO	Utility	08153037.0		2008-03-19	1990534		2016-10-19
10098EP01	EPO	Utility	10762012.2		2010-02-02			
10102EP01	EPO	Utility	11737771.3		2011-01-28	2529115		2016-12-28
10108EP01	EPO	Utility	05255584.4		2005-09-12	1650437		2012-08-29
10115EP01	EPO	Utility	10844145.2		2010-10-28	2526298		2019-04-24
10116EP01	EPO	Utility	11858285.7		2011-02-10	2673511		2019-06-05
10117EP01	EPO	Utility	10857612.5		2010-09-23	2635814		2017-11-22

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10118EP01	EPO	Utility	12764811.1		2012-04-02	2694899		2017-08-02
10254EP01	EPO	Utility	10715385.0		2010-04-09	2556320		2016-12-21
10255EP01	EPO	Utility	10701173.6		2010-01-15	2523743		2018-03-07
10469EP01	EPO	Utility	00953806.7		2000-08-03	1222397		2003-11-12
10484EP01	EPO	Utility	05764124.3		2005-06-29	1761708		2012-03-21
10490EP01	EPO	Utility	06803834.8		2006-09-19	1926915		2016-12-28
10495EP01	EPO	Utility	06803543.5		2006-09-13	1963683		2010-04-14
10501EP01	EPO	Utility	07756926.7		2007-02-13	1984628		2014-12-17
10502EP01	EPO	Utility	06846233.0		2006-12-28	2024645		2010-10-20
10831EP01	EPO	Utility	02784261.6		2002-10-22	1438509		2007-03-07
10838EP01	EPO	Utility	01309643.3		2001-11-15	1229249		2007-08-22
10839EP01	EPO	Utility	01309540.9		2001-11-15	1229248		2008-12-17
10839EP02	EPO	Utility	08004551.1		2001-11-15	1936201		2014-01-08
10858EP01	EPO	Utility	02720939.4		2002-02-05	1366293		2009-05-27
10874EP01	EPO	Utility	05712002.4		2005-01-24	1728020		2010-06-23
10892EP01	EPO	Utility	05254750.2		2005-07-29	1649921		2012-09-05
10894EP01	EPO	Utility	07250507.6		2007-02-08	1818629		2016-12-21
10904EP01	EPO	Utility	05257628.7		2005-12-13	1669607		2010-04-21
10906EP01	EPO	Utility	06735991.9		2006-02-24	1851438		2015-04-22

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10907EP01	EPO	Utility	06251515.0		2006-03-22	1715238		2009-02-11
10911EP01	EPO	Utility	07254982.7		2007-12-20	1946819		2010-11-10
10913EP01	EPO	Utility	08253331.6		2008-10-14	2058522		2012-06-27
10916EP01	EPO	Utility	09250029.7		2009-01-07	2213357		2012-09-19
10921EP01	EPO	Utility	09739827.5		2009-04-30			
10926EP01	EPO	Utility	09748653.4		2009-11-03	2496839		2017-01-04
10927EP01	EPO	Utility	10706418.0		2010-02-12	2475892		2017-01-15
10929EP01	EPO	Utility	10844108.0		2010-01-22	2526297		2016-04-20
10932EP01	EPO	Utility	11733423.5		2012-07-04	2524143		2017-08-09
11012EP01	EPO	Utility	12767994.2		2012-04-04	2694253		2019-06-05
11014EP01	EPO	Utility	11862178.8		2011-03-31	2691211		2017-06-28
11015EP01	EPO	Utility	11861984.0		2011-03-31	2691215		2016-11-23
11016EP01	EPO	Utility	11862703.3		2011-03-31	2691213		2016-08-17
11017EP01	EPO	Utility	11862292.7		2011-03-31	2691212		2016-12-14
11018EP01	EPO	Utility	11838851.1		2011-11-04	2635411		2017-03-22
11020EP01	EPO	Utility	11868785.4		2011-06-29	2726255		2018-09-19
11021EP01	EPO	Utility	11870463.4		2011-08-01	2739439		2016-10-05
11023EP01	EPO	Utility	11870377.6		2011-08-01	2740171		2016-12-07
11024EP01	EPO	Utility	12819972.6		2012-08-01	2739440		2016-10-05

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11028EP01	EPO	Utility	13741300.1		2013-01-22			
11033EP01	EPO	Utility	13824748.1		2013-08-02	2879826		2018-10-03
11766EP01	EPO	Utility	99961689.9		1999-11-17	1051285		2003-03-12
11796EP01	EPO	Utility	03257505.2		2003-11-28	1473120		2007-02-21
11895EP01	EPO	Utility	05255148.8		2005-08-19	1627709		2012-12-19
11903EP01	EPO	Utility	04251122.0		2004-02-27	1454713		2016-07-13
11907EP01	EPO	Utility	04251124.6		2004-02-27	1454714		2009-05-06
11908EP01	EPO	Utility	04251123.8		2004-02-27	1454715		2009-08-19
11938EP01	EPO	Utility	08162034.6		2008-08-07	2025473		2013-10-16
11943EP01	EPO	Utility	09831192.1		2009-12-04	2352622		2018-05-02
11943EP02	EPO	Utility	18169167.6		2018-04-25			
11944EP01	EPO	Utility	10759184.4		2010-03-09	2414121		2013-07-31
11947EP01	EPO	Utility	10730014.7		2010-06-30	2448714		2013-12-04
11953EP01	EPO	Utility	12749794.9		2012-02-21			
11953EP02	EPO	Utility	17152448.1		2012-02-21			
12473EP01	EPO	Utility	07107020.5		2007-04-26	1863107		2011-10-26
12474EP01	EPO	Utility	07109228.2		2007-05-30	1862268		2012-05-02
12474EP03	EPO	Utility	12154262.5		2007-05-30	2452788		2013-07-24
12474EP04	EPO	Utility	12154256.7		2007-05-30	2452787		2014-07-02

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12475EP01	EPO	Utility	07119385.8		2007-10-26	1918071		2009-12-16
12476EP01	EPO	Utility	07109337.1		2007-05-31	1863108		2013-11-13
12476EP02	EPO	Utility	7120111.5		2007-05-31	1906470		2011-12-14
13017EP01	EPO	Utility	18197323.1		2018-09-27			
13023EP01	EPO	Utility	13838798.0		2013-09-18	2897766		2017-08-23
13025EP01	EPO	Utility	16161608.1		2016-03-22	3073062		2018-09-12
13026EP01	EPO	Utility	14155539.1		2014-02-18			
13032EP01	EPO	Utility	14155542.5		2014-02-18	2777882		2018-12-05
13032EP02	EPO	Utility	18210287.1		2014-02-18			
13051EP01	EPO	Utility	13836412.0		2013-09-14			
13071EP01	EPO	Utility	13836729.7		2013-09-14			
13354EP01	EPO	Utility	14160294.6		2014-03-17			
13357EP01	EPO	Utility	14160304.3		2014-03-17			
13362EP01	EPO	Utility	13196420.7		2013-12-10	2754894		2016-04-27
13480EP01	EPO	Utility	14160279.7		2014-03-17			
13481EP01	EPO	Utility	14160299.5		2014-03-17	2779373		2019-05-01
13482EP01	EPO	Utility	14160302.7		2014-03-17			
14001EP01	EPO	Utility	13780286.4		2013-10-10	2906325		2019-05-08
14001EP02	EPO	Utility	13783439.6		2015-03-31	2906328		2018-03-14

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14001EP03	EPO	Utility	13779717.1		2013-10-10	2906327		2018-02-21
14003EP01	EPO	Utility	13833181.4		2013-08-27			
14078EP01	EPO	Utility	15155357.5		2015-02-17	2944430		2016-09-14
14096EP01	EPO	Utility	14160282.1		2014-03-17			
17672EP01	EPO	Utility	15003688.7		2015-12-29			
17683EP01	EPO	Utility	19170437.8		2019-04-19			
17745EP01	EPO	Utility	15003687.9		2015-12-29	3041113		2019-04-10
17761EP01	EPO	Utility	16171488.6		2016-05-26			
17815EP01	EPO	Utility	14181567.0		2014-08-20	2860401		2016-06-01
17903EP01	EPO	Utility	14163017.8		2014-04-01	2787216		2017-07-26
17917EP01	EPO	Utility	15167267.2		2015-05-12	2947040		2017-03-01
18155EP01	EPO	Utility	14200020.7		2014-12-23	2891799		2018-10-17
18162EP01	EPO	Utility	18176360.8		2018-06-06			
18165EP01	EPO	Utility	14151446.3		2014-01-16	2759377		2019-04-03
18165EP02	EPO	Utility	19166809.4		2014-01-16			
18222EP01	EPO	Utility	15003689.5		2015-12-29			
18223EP01	EPO	Utility	14183377.2		2014-09-03			
18225EP01	EPO	Utility	13195449.7		2013-12-03			
18335EP01	EPO	Utility	15170228.9		2015-06-02	2952747		2018-03-21



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18410EP01	EPO	Utility	15191007.2		2015-10-22			
18504EP01	EPO	Utility	14860824.3		2015-06-17			
18512EP01	EPO	Utility	15169561.6		2015-05-28			
18569EP01	EPO	Utility	17172570.8		2017-05-23			
18573EP01	EPO	Utility	15191000.7		2015-10-22	3018349		2018-12-19
18617EP01	EPO	Utility	15153788.3		2015-02-04			
18629EP01	EPO	Utility	16175913.9		2016-06-23			
18685EP01	EPO	Utility	15167591.5		2015-05-13	2944759		2018-02-14
18691EP02	EPO	Utility	16804505.2		2016-06-03			
18758EP01	EPO	Utility	15172976.1		2015-06-19			
18759EP01	EPO	Utility	16804517.7		2016-06-03			
18760EP01	EPO	Utility	16804498.0		2016-06-03			
18761EP02	EPO	Utility	16804550.8		2016-06-03			
18848EP01	EPO	Utility	16812442.8		2016-06-16			
18891EP01	EPO	Utility	16804509.4		2016-06-03			
18894EP01	EPO	Utility	16185303.1		2016-08-23			
18894EP02	EPO	Utility	16185305.6		2016-08-23			
18905EP01	EPO	Utility	17167765.1		2017-04-24			
18921EP01	EPO	Utility	16199320.9		2016-11-17			

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18958EP01	EPO	Utility	16186268.5		2016-08-30	3135974		
18986EP01	EPO	Utility	18215096.1		2018-12-21			
19025EP01	EPO	Utility	16162866.4		2016-03-30			
19033EP01	EPO	Utility	16804555.7		2016-06-03			
32118EP01	EPO	Utility	17179277.3		2017-07-03			
32142EP01	EPO	Utility	19158870.6		2019-02-22			
32173EP01	EPO	Utility	15170425.1		2015-06-03	2952797		
32277EP01	EPO	Utility	17189170.8		2017-09-04			
32282EP01	EPO	Utility	17191305.6		2017-09-15			
32307EP01	EPO	Utility	17186019.0		2017-08-11			
32488EP01	EPO	Utility	17864349.0		2017-10-10			
32509EP01	EPO	Utility	17210007.5		2017-12-22			
32517EP01	EPO	Utility	18183545.5		2018-07-13			
32558EP01	EPO	Utility	17183960.8		2017-07-31			
32560EP01	EPO	Utility	17183959.0		2017-07-31			
32561EP01	EPO	Utility	17183958.2		2017-07-31			
32647EP01	EPO	Utility	17863884.7		2017-10-24			
32648EP01	EPO	Utility	17863622.1		2017-10-24			
32663EP01	EPO	Utility	18190858.3		2018-08-24			

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32671EP01	EPO	Utility	18186687.2		2017-07-31			
32755EP01	EPO	Utility	18154372.9		2018-01-31			
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32880EP01	EPO	Utility	18198614.2		2018-10-04			
32994EP01	EPO	Utility	18205533.5		2018-11-09			
33008EP01	EPO	Utility	18185728.5		2018-07-26			
33015EP01	EPO	Utility	19174521.5		2019-05-14			
33042EP01	EPO	Utility	19152038.6		2019-01-16			
33072EP01	EPO	Utility	18204753.0		2018-11-06			
33080EP01	EPO	Utility	18204744.9		2018-11-06			
33123EP01	EPO	Utility	19170351.1		2019-04-18			
33174EP01	EPO	Utility	19160303.4		2019-03-01			
33302EP01	EPO	Utility	19152744.9		2019-01-21			
33344EP01	EPO	Utility	19179893.3		2019-06-13			
33820EP01	EPO	Utility	19154704.1		2019-01-31			
4104	EPO	Utility	07718005.7		2007-01-11	1974146		2018-10-31
5283	EPO	Utility	08744960.9		2008-04-02	2150704		2017-08-09
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5633	EPO	Utility	09767192.9		2009-04-29	2310688		2017-06-07
5836	EPO	Utility	08755606.4		2008-05-15	2181254		2019-07-03
7218	EPO	Utility	10787231.9		2010-11-30	2531732		2019-03-06
7341	EPO	Utility	13002375.7		2010-07-19	2623794		2018-07-04

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8965	EPO	Utility	14167593.4		2010-07-19			
9190	EPO	Utility	10735152.0		2010-07-19	2456983		2014-06-25
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11031EM04	European Union	Design	002140822-0002		2012-11-22	002140822-0002		2012-11-22
11915EM01	European Union	Design	000315890-0001		2005-03-04	000315890-0001		2005-03-04
11942EM01	European Union	Design	001022065-0001		2008-10-16	001022065-0001		2008-10-16
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11942EM03	European Union	Design	001022065-0003		2008-10-16	001022065-0003		2008-10-16
11785FR01	France	Design	004659		2000-08-10	004659		2000-12-22

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030950FR01	France	Utility	12006922.4		2008-04-02	2543886		2019-06-05
031092FR01	France	Utility	08858602.9		2008-11-13	2235464		2019-05-08
031096FR01	France	Utility	08755606.4		2008-05-15	2181254		2019-07-03
031433FR01	France	Utility	13002375.7		2010-07-19	2623794		2018-07-04
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031495FR01	France	Utility	10787231.9		2010-11-30	2531732		2019-03-06
10077EP02	France	Utility	08008812.3		2004-02-19	1956242		2011-04-20
10080FR01	France	Utility	03255549.2		2003-09-05	1396637		2011-06-01
10089FR01	France	Utility	07250171.1		2007-01-17	1813810		2009-09-23
10091EP02	France	Utility	08167111.7		2005-05-19	2012012		2010-10-20
10094FR01	France	Utility	08153032.1		2008-03-19	1983188		2013-07-03
10095FR01	France	Utility	08153039.6		2008-03-19	1992814		2011-11-23
10096FR01	France	Utility	08153037.0		2008-03-19	1990534		2016-10-19
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10502FR01	France	Utility	06848233.0		2006-12-28	2024645		2010-10-20
10831FR01	France	Utility	02784261.6		2002-10-22	1438509		2007-03-07
10838FR01	France	Utility	01309643.3		2001-11-15	1229249		2007-08-22
10839FR01	France	Utility	01309640.9		2001-11-15	1229248		2008-12-17
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10907FR01	France	Utility	06251515.0		2006-03-22	1715238		2009-02-11
10911FR01	France	Utility	07254982.7		2007-12-20	1946819		2010-11-10
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10927FR01	France	Utility	10706418.0		2010-02-12	2475892		2017-01-15
11012FR01	France	Utility	12767994.2		2012-04-04	2694253		2019-06-05
11014FR01	France	Utility	11862178.8		2011-03-31	2691211		2017-06-28
11015FR01	France	Utility	11861984.0		2011-03-31	2691215		2016-11-23
11016FR02	France	Utility	11862703.3		2011-03-31	2691213		2016-08-17
11017FR01	France	Utility	11862292.7		2011-03-31	2691212		2016-12-14
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12474FR01	France	Utility	07109228.2		2007-05-30	1862268		2012-05-02
12474FR02	France	Utility	12154262.5		2007-05-30	2452788		2013-07-24
12474FR03	France	Utility	12154256.7		2007-05-30	2452787		2014-07-02
12475FR01	France	Utility	07119385.8		2007-10-26	1918071		2009-12-16
12476FR02	France	Utility	07120111.5		2007-05-31	1906470		2011-12-14
13023FR01	France	Utility	13838798.0		2013-09-18	2897766		2017-08-23
13025FR01	France	Utility	16161608.1		2016-03-22	3073062		2018-09-12
13032FR01	France	Utility	14155542.5		2014-02-18	2777882		2018-12-05
13481FR01	France	Utility	14160299.5		2014-03-17	2779373		2019-05-01
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14001FR02	France	Utility	13779717.1		2013-10-10	2906327		2018-02-21
14001FR03	France	Utility	13780286.4		2013-10-10	2906325		2019-05-08
14078FR01	France	Utility	15155357.5		2015-02-17	2944430		2016-09-14
17745FR01	France	Utility	15003687.9		2015-12-29	3041113		2019-04-10

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18335FR01	France	Utility	15170228.9		2015-06-02	2952747		2018-03-21
18573FR01	France	Utility	15191000.7		2015-10-22	3018349		2018-12-19
18685FR01	France	Utility	15167591.5		2015-05-13	2944759		2018-02-14
18958FR01	France	Utility	16186268.5		2016-08-30	3135974		
32173FR01	France	Utility	15170425.1		2015-06-03	2952797		
11308DE01	Germany	Design	49907268.5		1999-07-26	49907268.5		1999-10-11
11901DE01	Germany	Design	40208001.7		2002-09-20	40208001.7		2002-11-13
030950DE01	Germany	Utility	08744960.9		2008-04-02	2150704		2017-08-09
030950DE02	Germany	Utility	12006922.4		2008-04-02	2543886		2019-06-05
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031092DE01	Germany	Utility	08858602.9		2008-11-13	2235464		2019-05-08
031096DE01	Germany	Utility	08755606.4		2008-05-15	2181254		2019-07-03
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031436DE01	Germany	Utility	14167593.4		2010-07-19	2799717		
031495DE01	Germany	Utility	10787231.9		2010-11-30	2531732		2019-03-06
031523DE01	Germany	Utility	11717130.6		2011-04-19	2596250		2016-08-10
10077EP02	Germany	Utility	08008812.3		2004-02-19	1956242		2011-04-20
10080DE01	Germany	Utility	03255549.2		2003-09-05	1396637		2011-06-01
10089DE01	Germany	Utility	07250171.1		2007-01-17	1813810		2009-09-23

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10091EP02	Germany	Utility	08167111.7		2005-05-19	2012012		2010-10-20
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10118DE01	Germany	Utility	12764811.1	602012035350.3	2012-04-02	2694899		2017-08-02
10254DE01	Germany	Utility	10715385.0		2010-04-09	2556320		2016-12-21
10255DE01	Germany	Utility	10701173.6	602010048982.5	2010-01-15	2523743		2018-03-07
10484DE01	Germany	Utility	05764124.3		2005-06-29	1761708		2012-03-21
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10501DE01	Germany	Utility	07756926.7		2007-02-13	1984628		2014-12-17
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10911DE01	Germany	Utility	07254982.7		2007-12-20	1946819		2010-11-10
10913DE01	Germany	Utility	08253331.6		2008-10-14	2058522		2012-06-27
10916DE01	Germany	Utility	09250029.7		2009-01-07	2213357	602009009779.2	2012-09-19
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11014DE01	Germany	Utility	11862178.8	602011039221.2	2011-03-31	2691211		2017-06-28
11015DE01	Germany	Utility	11861984.0	602011032810.7	2011-03-31	2691215	602011032810.7	2016-11-23
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10932IN01	India	Utility	6109/CHENP/2 012		2012-07-12			
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18599IN01	India	Utility	201634028382		2016-08-20			
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10080IT01	Italy	Utility	03255549.2		2003-09-05	1396637		2011-06-01
10089IT01	Italy	Utility	07250171.1		2007-01-17	1813810		2009-09-23

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10091EP02	Italy	Utility	08167111.7		2005-05-19	2012012		2010-10-20
10094IT01	Italy	Utility	08153032.1		2008-03-19	1983188		2013-07-03
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10502IT01	Italy	Utility	06848233.0		2006-12-28	2024645		2010-10-20
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10839IT01	Italy	Utility	01309640.9		2001-11-15	1229248		2008-12-17
10839IT02	Italy	Utility	08004551.1		2001-11-15	1936201		2014-01-08
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10874IT01	Italy	Utility	05712002.4		2005-01-24	1728020		2010-06-23
10892IT01	Italy	Utility	05254750.2		2005-07-29	1649921		2012-09-05
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10913IT01	Italy	Utility	08253331.6		2008-10-14	2058522		2012-06-27
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11938IT01	Italy	Utility	08162034.6		2008-08-07	2025473		2013-10-16
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11944IT01	Italy	Utility	10759184.4		2010-03-09	2414121		2013-07-31
12474IT01	Italy	Utility	07109228.2		2007-05-30	1862268		2012-05-02
12474IT02	Italy	Utility	12154262.5		2007-05-30	2452788		2013-07-24
12474IT03	Italy	Utility	12154256.7		2007-05-30	2452787		2014-07-02
12475IT01	Italy	Utility	07119385.8		2007-10-26	1918071		2009-12-16
12476IT02	Italy	Utility	07120111.5		2007-05-31	1906470		2011-12-14
13023IT01	Italy	Utility	13838798.0		2013-09-18	2897766		2017-08-23
13025IT01	Italy	Utility	16161608.1		2016-03-22	3073062		2018-09-12
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18335IT01	Italy	Utility	15170228.9		2015-06-02	2952747		2018-03-21
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7984	Italy	Utility	10735151.2		2010-07-19	2456984		2013-10-09
9193	Italy	Utility	10735152.0		2010-07-19	2456983		2014-06-25
031479JP01	Japan	Utility	2015-164605		2011-04-19	6204422		2017-09-08
7212	Japan	Utility	2012-551966		2010-11-30	5753199		2015-05-29
7219	Japan	Utility	2012-551965		2010-11-13	5727519		2015-04-10
7458	Japan	Utility	2013-520701		2011-04-19	5834263		2015-11-13
7461	Japan	Utility	2013-520702		2010-07-19	5834262		2015-11-13
7213	Korea	Utility	10-2012-7020206		2010-11-30			
7217	Korea	Utility	10-2012-7019606		2010-11-30			
4105	Norway	Utility	20083279		2007-01-11	343747		2019-05-27
5249	Norway	Utility	20083586		2007-02-15	340671		2017-05-29
4444	Pakistan	Utility	1132/2000		1999-12-09	137483		2004-03-13
18674WO01	PCT	Utility	PCT/US2018/050747		2018-09-12			
32226WO01	PCT	Utility	PCT/US2019/030522		2019-05-03			
32250WO01	PCT	Utility	PCT/US2019/020325		2019-03-01			
32428WO01	PCT	Utility	PCT/US2019/014347		2019-01-18			

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32894WO01	PCT	Utility	PCT/US2019/020324		2019-03-01			
11943PL01	Poland	Utility	09831192.1		2009-12-04	2352622		2018-05-02
10831ES01	Spain	Utility	02784261.6		2002-10-22	1438509		2007-03-07
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18335ES01	Spain	Utility	15170228.9		2015-06-02	2952747		2018-03-21
11901SE01	Sweden	Design	021375		2002-09-20	76216		2003-07-09
10080SE01	Sweden	Utility	03255549.2		2003-09-05	1396637		2011-06-01
10095SE01	Sweden	Utility	08153039.6		2008-03-19	1992814		2011-11-23
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11015SE01	Sweden	Utility	11861984.0		2011-03-31	2691215		2016-11-23
11016SE02	Sweden	Utility	11862703.3		2011-03-31	2691213		2016-08-17
11017SE01	Sweden	Utility	11862292.7		2011-03-31	2691212		2016-12-14
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11021SE02	Sweden	Utility	11870463.4		2011-08-01	2739439		2016-10-05
11023SE01	Sweden	Utility	11870377.6		2011-08-01	2740171		2016-12-07
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12474SE01	Sweden	Utility	12154262.5		2007-05-30	2452788		2013-07-24
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11308GB01	United Kingdom	Design	2085270		1999-07-26	2085270		1999-09-29
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030950GB01	United Kingdom	Utility	08744960.9		2008-04-02	2150704		2017-08-09
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031072GB01	United Kingdom	Utility	09767192.9		2009-04-29	2310688		2017-06-07
031092GB01	United Kingdom	Utility	08858602.9		2008-11-13	2235464		2019-05-08
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031433GB01	United Kingdom	Utility	13002375.7		2010-07-19	2623794		2018-07-04
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031495GB01	United Kingdom	Utility	10787231.9		2010-11-30	2531732		2019-03-06
031523GB01	United Kingdom	Utility	11717130.6		2011-04-19	2596250		2016-08-10
10077EP02	United Kingdom	Utility	08008812.3		2004-02-19	1956242		2011-04-20
10080GB01	United Kingdom	Utility	03255549.2		2003-09-05	1396637		2011-06-01



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10089GB01	United Kingdom	Utility	07250171.1		2007-01-17	1813810		2009-09-23
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10118GB01	United Kingdom	Utility	12764811.1		2012-04-02	2694899		2017-08-02
10255GB01	United Kingdom	Utility	10701173.6		2010-01-15	2523743		2018-03-07
10469EP01	United Kingdom	Utility	00953806.7		2000-08-03	1222397		2003-11-12
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10495GB01	United Kingdom	Utility	06803543.5		2006-09-13	1963683		2010-04-14
10501GB01	United Kingdom	Utility	07756926.7		2007-02-13	1984628		2014-12-17
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10839GB02	United Kingdom	Utility	08004551.1		2001-11-15	1936201		2014-01-08
10858GB01	United Kingdom	Utility	02720939.4		2002-02-05	1366293		2009-05-27
10874GB01	United Kingdom	Utility	05712002.4		2005-01-24	1728020		2010-06-23
10892GB01	United Kingdom	Utility	05254750.2		2005-07-29	1649921		2012-09-05
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10907GB01	United Kingdom	Utility	06251515.0		2006-03-22	1715238		2009-02-11
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11012GB01	United Kingdom	Utility	12767994.2		2012-04-04	2694253		2019-06-05
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12473GB01	United Kingdom	Utility	07107020.5		2007-04-26	1863107		2011-10-26
12474GB01	United Kingdom	Utility	07109228.2		2007-05-30	1862268		2012-05-02
12474GB02	United Kingdom	Utility	12154262.5		2007-05-30	2452788		2013-07-24
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13023GB01	United Kingdom	Utility	13838798.0		2013-09-18	2897766		2017-08-23
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14001GB02	United Kingdom	Utility	13779717.1		2013-10-10	2906327		2018-02-21
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18155GB01	United Kingdom	Utility	14200020.7		2014-12-23	2891799		2018-10-17
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5247	United Kingdom	Utility	0814970.0		2007-02-15	2448646		2011-11-02
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7983	United Kingdom	Utility	10735151.2		2010-07-19	2456984		2013-10-09
9191	United Kingdom	Utility	10735152.0		2010-07-19	2456983		2014-06-25
10090US01	USA	Design	29/205,463		2004-05-14	D515,101		2006-02-14
10104US01	USA	Design	29/384,216		2011-01-28	D655,309		2012-03-06

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11025US01	USA	Design	29/398,985		2011-08-08	D658,578		2012-05-01
11026US01	USA	Design	29/398,989		2011-08-08	D677,136		2013-03-05
11027US01	USA	Design	29/398,966		2011-08-08	D678,025		2013-03-19
11030US01	USA	Design	29/423,006		2012-05-25	D694,083		2013-11-26
11030US02	USA	Design	29/423,005		2012-05-25	D702,099		2014-04-01
11031US01	USA	Design	29/423,002		2012-05-25	D682,648		2013-05-21
11031US02	USA	Design	29/423,001		2012-05-25	D682,647		2013-05-21
11031US03	USA	Design	29/452,089		2013-04-11	D696,092		2013-12-24
11031US04	USA	Design	29/452,088		2013-04-11	D696,091		2013-12-24
11915US01	USA	Design	29/212,872		2004-09-08	D527,593		2006-09-05
11915US02	USA	Design	29/259,818		2006-05-16	D576,460		2008-09-09
11917US01	USA	Design	29/231,055		2005-05-31	D547,622		2007-07-31
11917US02	USA	Design	29/279,132		2007-04-20	D559,637		2008-01-15
11917US03	USA	Design	29/279,130		2007-04-20	D564,312		2008-03-18
11925US01	USA	Design	29/258,182		2006-04-18	D591,130		2009-04-28
11926US01	USA	Design	29/258,177		2006-04-18	D590,680		2009-04-21
11927US01	USA	Design	29/258,178		2006-04-18	D590,681		2009-04-21
11928US01	USA	Design	29/258,988		2006-05-01	D560,755		2008-01-29
11929US01	USA	Design	29/258,189		2006-04-18	D554,460		2007-11-06

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11930US01	USA	Design	29/259,015		2006-05-01	D578,852		2008-10-21
11931US01	USA	Design	29/258,188		2006-04-18	D590,682		2009-04-21
11942US01	USA	Design	29/317,696		2008-05-05	D580,248		2008-11-11
11942US02	USA	Design	29/325,467		2008-10-01	D587,080		2009-02-24
11942US03	USA	Design	29/325,466		2008-10-01	D624,380		2010-09-28
11945US01	USA	Design	29/326,776		2008-10-24	D591,129		2009-04-28
11946US01	USA	Design	29/327,970		2008-11-17	D590,679		2009-04-21
11948US01	USA	Design	29/344,086		2009-09-23	D623,033		2010-09-07
11949US01	USA	Design	29/342,509		2009-08-26	D616,717		2010-06-01
11950US01	USA	Design	29/338,084		2009-06-04	D617,620		2010-06-15
12477US01	USA	Design	29/260,791		2006-05-31	D571,177		2008-06-17
12478US01	USA	Design	29/260,792		2006-05-31	D584,124		2009-01-06
12479US01	USA	Design	29/260,789		2006-05-31	D596,007		2009-07-14
12480US01	USA	Design	29/260,702		2006-05-31	D583,314		2008-12-23
12481US01	USA	Design	29/260,703		2006-05-31	D590,333		2009-04-14
12482US01	USA	Design	29/260,790		2006-05-31	D592,479		2009-05-19
13513US01	USA	Design	29/460,806		2013-07-15	D701,440		2014-03-25
14002US01	USA	Design	29/431,310		2012-09-06	D743,224		2015-11-17
14085US01	USA	Design	29/460,803		2013-07-15	D730,553		2015-05-26

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14086US01	USA	Design	29/460,801		2013-07-15	D707,522		2014-06-24
14097US01	USA	Design	29/460,798		2013-07-15	D718,705		2014-12-02
17666US01	USA	Design	29/460,795		2013-07-15	D707,521		2014-06-24
17670US01	USA	Design	29/443,156		2013-01-14	D692,923		2013-11-05
17678US01	USA	Design	29/448,525		2013-03-13	D707,515		2014-06-24
17680US01	USA	Design	29/448,516		2013-03-13	D703,020		2014-04-22
17681US01	USA	Design	29/449,364		2013-03-15	D722,480		2015-02-17
18175US01	USA	Design	29/460,865		2013-07-16	D701,441		2014-03-25
18452US01	USA	Design	29/468,369		2013-09-30	D712,714		2014-09-09
18500US01	USA	Design	29/475,691		2013-12-05	D716,125		2014-10-28
18552US01	USA	Design	29/483,255		2014-02-26	D721,214		2015-01-13
18577US01	USA	Design	29/480,815		2014-01-29	D723,764		2015-03-03
18699US01	USA	Design	29/500,505		2014-08-26	D748,065		2016-01-26
32122US01	USA	Design	29/529,353		2015-06-05	D774,862		2016-12-27
32122US02	USA	Design	29/530,572		2015-06-17	D774,863		2016-12-27
32446US01	USA	Design	29/572994		2016-08-02	D826,298		2018-08-21
32446US02	USA	Design	29/660,586		2018-08-21			
32511US01	USA	Design	29/589,445		2016-12-30	D807,135		2018-01-09
32511US02	USA	Design	29/589,447		2016-12-30	D807,136		2018-01-09

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32879US01	USA	Design	29/625,010		2017-11-06			
32986US01	USA	Design	29/628,892		2017-12-08	D835,959		2018-12-18
9121	USA	Design	29/492,727		2014-06-02	D763,320		2016-08-09
9189	USA	Design	29/492,731		2014-06-02	D732,581		2015-06-23
10832US01	USA	Provisional	09/707,771		2000-11-08	6,443,182		2002-09-03
10833US01	USA	Provisional	09/903,200		2001-07-11	6,470,693		2002-10-29
10836US01	USA	Provisional	09/818,871		2001-03-27	6,431,210		2002-08-13
10853US02	USA	Provisional	09/631,369		2000-08-02	6,491,057		2002-12-10
10858US01	USA	Provisional	09/777,210		2001-02-05	6,447,264		2002-09-10
10858US02	USA	Provisional	10/045,521		2001-10-26	6,790,012		2004-09-14
030562US03	USA	Utility	14/594,972		2010-07-13	9,372,022		2016-06-21
031976US01	USA	Utility	13/906,304		2013-05-30	9,970,451		2018-05-15
10062US01	USA	Utility	09/428,945		1999-10-28	6,280,149		2001-08-28
10066US01	USA	Utility	09/385,715		1999-08-30	6,190,136		2001-02-20
10067US01	USA	Utility	10/976,007		2004-10-28	7,600,985		2009-10-13
10071US01	USA	Utility	09/429,184		1999-10-28	6,168,387		2001-01-02
10072US01	USA	Utility	09/841,680		2001-04-24	6,571,680		2003-06-03
10074US01	USA	Utility	10/027,680		2001-12-20	6,619,316		2003-09-16
10075US01	USA	Utility	09/833,277		2001-04-12	6,558,141		2003-05-06
10076US01	USA	Utility	10/125,008		2002-04-18	6,644,941		2003-11-11



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10077US01	USA	Utility	10/391,711		2003-03-19	6,883,417		2005-04-26
10078US01	USA	Utility	10/804,700		2004-03-19	7,367,785		2008-05-06
10079US01	USA	Utility	10/242,595		2002-09-12	6,722,256		2004-04-20
10080US01	USA	Utility	10/236,263		2002-09-06	6,901,960		2005-06-07
10081US01	USA	Utility	10/236,285		2002-09-06	6,901,961		2005-06-07
10084US01	USA	Utility	10/804,432		2004-03-19	6,976,506		2005-12-20
10084US02	USA	Utility	11/259,440		2005-10-26	7,191,799		2007-03-20
10085US01	USA	Utility	10/386,036		2003-03-11	6,865,981		2005-03-15
10089US01	USA	Utility	11/342,431		2006-01-30	8,632,322		2014-01-21
10091US01	USA	Utility	10/869,074		2004-06-16	7,063,517		2006-06-20
10092US01	USA	Utility	11/591,156		2006-11-01	7,600,532		2009-10-13
10092US02	USA	Utility	12/577,983		2009-10-13	8,226,381		2012-07-24
10093US01	USA	Utility	11/539,241		2006-10-06	7,631,725		2009-12-15
10094US01	USA	Utility	11/736,845		2007-04-18	7,584,676		2009-09-08
10095US01	USA	Utility	11/747,971		2007-05-14	7,806,011		2010-10-05
10096US01	USA	Utility	11/746,758		2007-05-10	7,665,439		2010-02-23
10097US01	USA	Utility	12/196,943		2008-08-22	8,167,586		2012-05-01
10098US01	USA	Utility	12/419,056		2009-04-06	7,882,816		2011-02-08
10101US02	USA	Utility	13/574,960		2011-01-28	8,632,315		2014-01-21

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10102US01	USA	Utility	13/574,968		2011-01-28	8,632,316		2014-01-21
10103US01	USA	Utility	13/574,971		2011-01-28	8,632,317		2014-01-21
10106US01	USA	Utility	14/356,304		2011-11-16	9,605,668		2017-03-28
10108US02	USA	Utility	11/051,046		2005-02-04	7,167,761		2007-01-23
10115US01	USA	Utility	13/580,291		2012-11-19	9,518,579		2016-12-13
10117US01	USA	Utility	13/825,748		2010-09-23	9,657,732		2017-05-23
10118US02	USA	Utility	13/437,830		2012-04-02	9,120,054		2015-09-01
10254US01	USA	Utility	13/638,627		2010-04-09	10,001,325		2018-06-19
10254US02	USA	Utility	15/950,853		2018-04-11			
10255US01	USA	Utility	13/549,499		2012-07-15	9,482,453		2016-11-01
10372US01	USA	Utility	09/778,348		2001-02-07	6,568,483		2003-05-27
10373US01	USA	Utility	09/783,898		2001-02-15	6,547,014		2003-04-15
10386US01	USA	Utility	09/458,907		1999-12-10	6,457,356		2002-10-01
10408US01	USA	Utility	09/446,367		2000-07-18	6,287,100		2001-09-11
10473US01	USA	Utility	09/645,311		2000-08-25	6,461,111		2002-10-08
10473US02	USA	Utility	10/177,288		2002-06-20	6,616,412		2003-09-09
10476US01	USA	Utility	09/645,312		2000-08-25	6,516,873		2003-02-11
10484US02	USA	Utility	11/170,032		2005-06-29	7,182,579		2007-02-27
10485US02	USA	Utility	11/422,251		2006-06-05	7,972,401		2011-07-05

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10492US02	USA	Utility	11/531,299		2006-09-13	9,121,416		2015-09-01
10493US02	USA	Utility	11/533,228		2006-09-19	9,261,104		2016-02-16
10494US02	USA	Utility	11/531,297		2006-09-13	7,563,074		2009-07-21
10495US02	USA	Utility	11/531,296		2006-09-13	7,581,925		2009-09-01
10496US02	USA	Utility	11/531,294		2006-09-13	7,604,457		2009-10-20
10501US02	USA	Utility	11/674,505		2007-02-13			
10501US03	USA	Utility	15/215,213		2016-07-20			
10502US02	USA	Utility	11/617,252		2006-12-28	8,079,808		2011-12-20
10831US01	USA	Utility	10/040,081		2001-10-24	6,520,758		2003-02-18
10838US01	USA	Utility	09/776,572		2001-02-02	6,499,965		2002-12-31
10839US01	USA	Utility	09/776,418		2001-02-02	6,500,243		2002-12-31
10850US01	USA	Utility	09/672,003		2000-09-29	6,409,804		2002-06-25
10868US01	USA	Utility	10/624,358		2003-07-21	6,921,423		2005-07-26
10868US02	USA	Utility	11/177,462		2005-07-08	7,056,362		2006-06-06
10874US01	USA	Utility	10/811,132		2004-03-26	7,195,289		2007-03-27
10874US02	USA	Utility	11/328,699		2006-01-10	7,258,370		2007-08-21
10877US01	USA	Utility	10/816,330		2004-04-01	7,115,149		2006-10-03
10886US01	USA	Utility	10/966,805		2004-10-15	7,234,926		2007-06-26
10892US01	USA	Utility	10/969,528		2004-10-20	7,260,949		2007-08-28

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10904US02	USA	Utility	11/301,923		2005-12-13	8,146,712		2012-04-03
10906US02	USA	Utility	11/362,460		2006-02-24	7,922,457		2011-04-12
10907US01	USA	Utility	11/111,269		2005-04-21	7,549,509		2009-06-23
10907US02	USA	Utility	12/463,457		2009-05-11	9,062,679		2015-06-23
10913US01	USA	Utility	11/938,626		2007-11-12	7,762,789		2010-07-27
10914US02	USA	Utility	11/924,279		2007-10-25	8,006,503		2011-08-30
10915US02	USA	Utility	12/117,068		2008-05-08	8,601,825		2013-12-10
10919US01	USA	Utility	12/354,269		2009-01-15	8,192,171		2012-06-05
10921US02	USA	Utility	12/990,223		2009-04-30	9,541,332		2017-01-10
10926US01	USA	Utility	13/505,615		2009-11-03	9,200,640		2015-12-01
10927US01	USA	Utility	12/556,212		2009-09-09	8,147,575		2012-04-03
10929US01	USA	Utility	13/580,292		2012-08-21	9,500,191		2016-11-22
10932US02	USA	Utility	13/521,606		2011-01-14	8,734,554		2014-05-27
11012US01	USA	Utility	13/080,030		2011-04-05	9,566,692		2017-02-14
11012US02	USA	Utility	15/400,706		2017-01-06			
11014US02	USA	Utility	14/006,206		2011-03-31	9,212,725		2015-12-15
11016US01	USA	Utility	14/005,677		2011-03-31	9,654,050		2017-05-16
11017US01	USA	Utility	14/004,104		2011-03-31	10,058,989		2018-08-28
11018US02	USA	Utility	13/883,223		2011-11-04	9,878,432		2018-01-30

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11020US01	USA	Utility	14/127,749		2011-06-29	9,545,713		2017-01-17
11021US01	USA	Utility	14/235,480		2011-08-01	9,660,229		2017-05-23
11022US02	USA	Utility	13/431,281		2012-03-27	9,044,850		2015-06-02
11023US01	USA	Utility	14/235,646		2011-08-01	9,293,747		2016-03-22
11024US02	USA	Utility	13/564,026		2012-08-01	9,884,416		2018-02-06
11028US05	USA	Utility	13/739,315		2013-01-11	9,281,770		2016-03-08
11029US02	USA	Utility	13/769,483		2013-02-18			
11032US02	USA	Utility	13/798,794		2013-03-13	9,126,322		2015-09-08
11033US02	USA	Utility	13/958,317		2013-08-02	9,789,599		2017-10-17
11033US03	USA	Utility	13/958,321		2013-08-02	9,687,978		2017-06-27
11309US01	USA	Utility	10/039,403		2001-11-07	6,770,177		2004-08-03
11312US01	USA	Utility	10/008,527		2001-11-05	6,575,707		2003-06-10
11313US01	USA	Utility	10/011,470		2001-11-05	6,629,825		2003-10-07
11313US02	USA	Utility	10/680,014		2003-10-07	7,198,473		2007-04-03
11777US01	USA	Utility	09/578,018		2000-05-24	6,491,113		2002-12-10
11793US01	USA	Utility	09/515,471		2000-02-29	6,401,836		2002-06-11
11794US01	USA	Utility	09/617,333		2000-07-17	6,491,111		2002-12-10
11796US01	USA	Utility	10/355,698		2003-01-31	6,889,778		2005-05-10
11894US01	USA	Utility	10/012,588		2001-10-31	6,669,543		2003-12-30

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11895US01	USA	Utility	10/923,378		2004-08-20	7,207,394		2007-04-24
11895US02	USA	Utility	11/619,507		2007-01-03	7,770,661		2010-08-10
11897US01	USA	Utility	09/883,470		2001-06-18	6,668,212		2003-12-23
11907US01	USA	Utility	10/384,447		2003-03-07	6,863,134		2005-03-08
11908US01	USA	Utility	10/384,446		2003-03-07	6,782,956		2004-08-31
11910US01	USA	Utility	10/681,733		2003-10-08	6,893,271		2005-05-17
11916US01	USA	Utility	10/993,979		2004-11-19	7,040,178		2006-05-09
11919US01	USA	Utility	11/000,664		2004-12-01	7,222,680		2007-05-29
11935US02	USA	Utility	11/400,155		2006-04-06	7,429,061		2008-09-30
11938US01	USA	Utility	11/836,279		2007-08-09	7,673,702		2010-03-09
11940US01	USA	Utility	12/115,172		2008-05-05	7,886,840		2011-02-15
11940US02	USA	Utility	12/914,076		2010-10-28	8,347,979		2013-01-08
11941US01	USA	Utility	12/115,185		2008-05-05	8,122,907		2012-02-28
11941US02	USA	Utility	13/404,889		2012-02-24	8,739,832		2014-06-03
11943US01	USA	Utility	12/328,035		2008-12-04	9,016,398		2015-04-28
11944US01	USA	Utility	12/418,205		2009-04-03	8,011,444		2011-09-06
11947US01	USA	Utility	12/494,679		2009-06-30	8,051,746		2011-11-08
11951US02	USA	Utility	12/553,370		2009-09-03	8,020,630		2011-09-20
11952US01	USA	Utility	13/390,009		2009-10-15	8,613,427		2013-12-24

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11953US01	USA	Utility	13/033,241		2011-02-23	8,925,646		2015-01-06
11953US02	USA	Utility	14/251,567		2014-04-12	9,550,284		2017-01-24
11953US03	USA	Utility	14/552,536		2014-11-25	10,131,037		2018-11-20
12473US01	USA	Utility	11/429,860		2006-05-08	7,619,387		2009-11-17
12474US02	USA	Utility	11/755,260		2007-05-30	8,205,684		2012-06-26
12475US01	USA	Utility	11/588,179		2006-10-26	7,562,720		2009-07-21
12475US02	USA	Utility	11/971,347		2008-01-09	7,607,492		2009-10-27
12476US02	USA	Utility	11/755,372		2007-05-30	7,863,857		2011-01-04
12476US03	USA	Utility	12/980,679		2010-12-29	8,299,749		2012-10-30
12486US02	USA	Utility	12/145,824		2008-06-25	8,421,375		2013-04-16
12486US03	USA	Utility	13/764,885		2013-02-12	10,119,696		2018-11-06
12486US04	USA	Utility	16/182,530		2018-11-06			
12487US01	USA	Utility	12/435,044		2009-05-04	8,373,317		2013-02-12
12489US01	USA	Utility	12/025,187		2008-02-04	7,896,103		2011-03-01
13017US01	USA	Utility	15/717,695		2017-09-27			
13023US02	USA	Utility	14/030,582		2013-09-18	9,352,445		2016-05-31
13025US01	USA	Utility	14/667,386		2015-03-24	9,989,030		2018-06-05
13026US01	USA	Utility	13/796,407		2013-03-12	9,022,888		2015-05-05
13028US01	USA	Utility	13/832,305		2013-03-15	9,833,885		2017-12-05

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13028US02	USA	Utility	15/830,478		2017-12-04			
13029US01	USA	Utility	13/799,678		2013-03-13	9,694,483		2017-07-04
13030US01	USA	Utility	14/048,409		2013-10-08			
13040US02	USA	Utility	14/597,859		2015-01-15	9,951,761		2018-04-24
13043US02	USA	Utility	14/133,323		2013-12-18	9,669,352		2017-06-06
13043US03	USA	Utility	15/581,691		2017-04-28	10,179,307		2019-01-15
13051US02	USA	Utility	14/027,172		2013-09-14	9,650,926		2017-05-16
13052US01	USA	Utility	13/763,926		2013-02-11	10,054,115		2018-08-21
13052US02	USA	Utility	16/107,772		2018-08-21			
13054US01	USA	Utility	13/780,079		2013-02-28	10,036,378		2018-07-31
13054US02	USA	Utility	16/049,666		2018-07-30			
13059US02	USA	Utility	14/597,868		2015-01-15	9,739,290		2017-08-22
13071US03	USA	Utility	14/027,181		2013-09-14	9,482,387		2016-11-01
13072US02	USA	Utility	14/212,661		2014-03-14	9,447,763		2016-09-20
13354US02	USA	Utility	14/213,710		2014-03-14	9,702,358		2017-07-11
13357US02	USA	Utility	14/216,078		2014-03-17	9,117,348		2015-08-25
13359US01	USA	Utility	15/006,638		2016-01-26	10,161,271		2018-12-25
13362US01	USA	Utility	13/741,057		2013-01-14	9,284,956		2016-03-15
13362US02	USA	Utility	15/069,184		2016-03-14			



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13453US01	USA	Utility	13/932,415		2013-07-01	9,555,532		2017-01-31
13467US01	USA	Utility	13/920,290		2013-06-18	9,486,908		2016-11-08
13469US01	USA	Utility	13/964,297		2013-08-12	9,597,784		2017-03-21
13480US02	USA	Utility	14/212,494		2014-03-14	9,871,427		2018-01-16
13481US02	USA	Utility	14/214,762		2014-03-15	9,621,013		2017-04-11
13482US02	USA	Utility	14/214,777		2014-03-15	9,680,351		2017-06-13
13508US02	USA	Utility	15/156,728		2016-05-17			
14001US06	USA	Utility	14/431,021		2013-10-10	9,849,413		2017-12-26
14001US08	USA	Utility	14/431,528		2013-10-10	9,724,631		2017-08-08
14003US03	USA	Utility	14/011,418		2013-08-27	9,669,535		2017-06-06
14003US04	USA	Utility	14/011,404		2013-08-27	9,796,073		2017-10-24
14008US01	USA	Utility	13/713,419		2012-12-13	9,434,013		2016-09-06
14078US01	USA	Utility	14/184,943		2014-02-20	9,701,006		2017-07-11
14090US02	USA	Utility	14/957,965		2015-12-03			
14091US01	USA	Utility	14/015,452		2013-08-30	9,289,878		2016-03-22
14096US01	USA	Utility	14/213,952		2014-03-14			
17665US01	USA	Utility	14/084,221		2013-11-19			
17672US02	USA	Utility	14/973,121		2015-12-17	10,253,649		2019-04-09
17672US03	USA	Utility	16/377,950		2019-04-08			

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17674US02	USA	Utility	14/973,955		2015-12-18			
17683US01	USA	Utility	15/958,046		2018-04-20			
17686US01	USA	Utility	14/149,019		2014-01-07	9,669,526		2017-06-06
17687US02	USA	Utility	14/199,054		2014-03-06	9,341,003		2016-05-17
17745US02	USA	Utility	14/964,125		2015-12-09			
17761US02	USA	Utility	15/139,593		2016-04-27	9,926,159		2018-03-27
17808US02	USA	Utility	14/463,418		2014-08-19	9,846,149		2017-12-19
17815US02	USA	Utility	14/463,091		2014-08-19	10,359,240		2019-07-23
17825US01	USA	Utility	14/144,863		2013-12-31	9,017,209		2015-04-28
17826US01	USA	Utility	14/023,691		2013-09-11	9,222,528		2015-12-29
17903US02	USA	Utility	14/242,770		2014-04-01			
17917US01	USA	Utility	14/282,416		2014-05-20	9,890,023		2018-02-13
17917US02	USA	Utility	15/891,559		2018-02-08	10,427,921		2019-10-01
17921US01	USA	Utility	14/242,353		2014-04-01			
17930US01	USA	Utility	14/099,226		2013-12-06	9,592,591		2017-03-14
17931US01	USA	Utility	14/109,830		2013-12-17	9,573,254		2017-02-21
17950US01	USA	Utility	14/169,945		2014-01-31	9,463,557		2016-10-11
17950US02	USA	Utility	14/169,999		2014-01-31	9,469,017		2016-10-18
18155US01	USA	Utility	14/148,986		2014-01-07	9,605,664		2017-03-28

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18158US01	USA	Utility	13/961,465		2013-08-07	9,221,656		2015-12-29
18162US01	USA	Utility	15/620,459		2017-06-12			
18165US01	USA	Utility	13/749,553		2013-01-24	9,550,283		2017-01-24
18222US02	USA	Utility	14/962,705		2015-12-08	9,915,265		2018-03-13
18223US01	USA	Utility	14/049,088		2013-10-08	9,845,794		2017-12-19
18225US01	USA	Utility	13/711,971		2012-12-12	9,272,400		2016-03-01
18265US02	USA	Utility	14/955,951		2015-12-01	10,042,371		2018-08-07
18307US01	USA	Utility	14/878,557		2015-10-08	10,208,754		2019-02-19
18307US02	USA	Utility	16/272,381		2019-02-11			
18335US01	USA	Utility	14/293,886		2014-06-02	9,546,660		2017-01-17
18377US01	USA	Utility	14/108,345		2013-12-17	10,030,694		2018-07-24
18386US01	USA	Utility	14/157,506		2014-01-16	9,539,715		2017-01-10
18390US01	USA	Utility	14/104,039		2013-12-12	9,434,056		2016-09-06
18410US01	USA	Utility	14/526,064		2014-10-28	9,831,746		2017-11-28
18435US01	USA	Utility	14/181,205		2014-02-14	9,737,978		2017-08-22
18449US02	USA	Utility	14/967,498		2015-12-14	10,180,147		2019-01-15
18450US01	USA	Utility	14/289,316		2014-05-28	9,669,346		2017-06-06
18451US02	USA	Utility	14/967,509		2015-12-14	9,915,237		2018-03-13
18490US01	USA	Utility	11/939,133		2007-11-13	8,333,574		2012-12-18

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18490US02	USA	Utility	13/714,890		2012-12-14	8,758,146		2014-06-24
18504US02	USA	Utility	14/537,727		2014-11-10	9,901,980		2018-02-27
18506US01	USA	Utility	14/941,895		2015-11-16			
18512US01	USA	Utility	14/289,456		2014-05-28	9,682,336		2017-06-20
18569US01	USA	Utility	15/162,243		2016-05-23			
18573US01	USA	Utility	14/530,177		2014-10-31			
18574US01	USA	Utility	14/634,459		2015-02-27	9,566,826		2017-02-14
18584US01	USA	Utility	14/251,552		2014-04-11	9,592,600		2017-03-14
18591US01	USA	Utility	14/539,093		2014-11-12			
18597US02	USA	Utility	14/959,673		2015-12-04			
18598US01	USA	Utility	14/870,607		2015-09-30			
18599US01	USA	Utility	14/832,562		2015-08-21	9,677,551		2017-06-13
18606US01	USA	Utility	62/098,455		2014-12-31			
18606US02	USA	Utility	14/967,524		2015-12-14			
18617US02	USA	Utility	14/614,344		2015-02-04			
18619US02	USA	Utility	14/614,349		2015-02-04	10,394,970		2019-08-27
18619US03	USA	Utility	16/519,530		2019-07-23			
18620US02	USA	Utility	14/614,346		2015-02-04			
18628US02	USA	Utility	15/243,430		2016-08-22			

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18629US01	USA	Utility	14/750,929		2015-06-25			
18674US01	USA	Utility	15/703,049		2017-09-13			
18675US01	USA	Utility	14/862,498		2015-09-23			
18681US02	USA	Utility	14/974,745		2015-12-18	10,323,960		2019-06-18
18685US01	USA	Utility	14/710,271		2015-05-12	10,047,766		2018-08-14
18691US02	USA	Utility	15/172,214		2016-06-03			
18707US01	USA	Utility	14/832,558		2015-08-21	10,087,797		2018-10-02
18712US01	USA	Utility	14/957,740		2015-12-03	9,777,882		2017-10-03
18738US01	USA	Utility	15/256,949		2016-09-06	10,220,493		2019-03-05
18748US02	USA	Utility	14/316,780		2014-06-26	9,664,186		2017-05-30
18748US04	USA	Utility	14/316,770		2014-06-26	9,752,566		2017-09-05
18748US05	USA	Utility	15/493,820		2017-04-21	10,174,750		2019-01-08
18748US06	USA	Utility	16/242,862		2019-01-08			
18755US01	USA	Utility	14/833,862		2015-08-24			
18757US02	USA	Utility	14/974,540		2015-12-18			
18758US02	USA	Utility	14/742,527		2015-06-17	9,991,762		2018-06-05
18758US03	USA	Utility	15/995,644		2018-06-01	10,447,113		
18759US02	USA	Utility	15/172,284		2016-06-03			
18760US02	USA	Utility	15/172,193		2016-06-03	10,418,879		

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18761US02	USA	Utility	15/172,420		2016-06-03			
18797US02	USA	Utility	14/962,427		2015-12-08			
18801US02	USA	Utility	14/974,715		2015-12-18			
18820US01	USA	Utility	14/234,445		2011-09-09	9,003,950		2015-04-14
18848US01	USA	Utility	14/744,187		2015-06-19			
18879US01	USA	Utility	15/670,443		2017-08-07			
18882US01	USA	Utility	15/220,279		2016-07-26			
18891US02	USA	Utility	15/172,247		2016-06-03	10,052,733		2018-08-21
18891US03	USA	Utility	16/107,859		2018-08-21			
18894US01	USA	Utility	14/837,945		2015-08-27	9,683,569		2017-06-20
18894US02	USA	Utility	14/837,912		2015-08-27			
18905US01	USA	Utility	15/136,153		2016-04-22			
18908US01	USA	Utility	15/006,485		2016-01-26			
18921US01	USA	Utility	14/949,003		2015-11-23			
18932US01	USA	Utility	15/420,446		2017-01-31			
18940US01	USA	Utility	15/381,329		2016-12-16			
18946US01	USA	Utility	15/148,601		2016-05-06			
18947US02	USA	Utility	15/381,334		2016-12-16			
18958US02	USA	Utility	15/250,534		2016-08-29	10,330,228		2019-06-25

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18986US01	USA	Utility	15/852,570		2017-12-22			
18999US01	USA	Utility	15/340,454		2016-11-01	10,279,299		2019-05-07
19002US01	USA	Utility	14/858,802		2015-09-18	9,490,681		2016-11-08
19007US01	USA	Utility	15/211,828		2016-07-15	10,240,602		2019-03-26
19008US01	USA	Utility	14/857,479		2015-09-17	9,920,763		2018-03-20
19025US02	USA	Utility	15/084,857		2016-03-30	9,956,521		2018-05-01
19033US02	USA	Utility	15/172,501		2016-06-03			
19039US01	USA	Utility	15/337,613		2016-10-28			
19039US02	USA	Utility	15/337,639		2016-10-28			
19039US03	USA	Utility	15/337,634		2016-10-28			
19039US04	USA	Utility	15/337,624		2016-10-28			
32106US01	USA	Utility	14/839,582		2015-08-28			
32118US02	USA	Utility	15/211,803		2016-07-15			
32142US01	USA	Utility	15/903,426		2018-02-23			
32161US01	USA	Utility	16/551,078		2019-08-26			
32173US01	USA	Utility	14/729,888		2015-06-03	9,964,242		2018-05-08
32174US01	USA	Utility	15/881,331		2018-01-26			
32205US01	USA	Utility	15/340,457		2016-11-01			
32226US01	USA	Utility	15/970,531		2018-05-03			

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32250US01	USA	Utility	15/910,660		2018-03-02			
32263US02	USA	Utility	15/489,138		2017-04-17			
32263US03	USA	Utility	15/489,512		2017-04-17			
32275US01	USA	Utility	15/707,259		2017-09-18			
32277US01	USA	Utility	15/282,149		2016-09-30	10,180,140		2019-01-15
32279US01	USA	Utility	15/075,605		2016-03-21	10,197,177		2019-02-05
32282US01	USA	Utility	15/267,867		2016-09-16	9,953,234		2018-04-24
32307US01	USA	Utility	15/235,890		2016-08-12	10,422,331		2019-09-24
32382US01	USA	Utility	15/711,782		2017-09-21			
32397US01	USA	Utility	15/340,461		2016-11-01			
32428US01	USA	Utility	15/874,865		2018-01-18			
32453US01	USA	Utility	15/283,334		2016-10-01	10,427,270		2019-10-01
32488US01	USA	Utility	15/290,957		2016-10-11	10,427,277		2019-10-01
32509US01	USA	Utility	15/392,180		2016-12-28	10,272,180		2019-04-30
32517US01	USA	Utility	15/657,256		2017-07-24			
32539US01	USA	Utility	15/675,246		2017-08-11			
32558US01	USA	Utility	14/239,372		2016-08-17			
32560US01	USA	Utility	15/239,355		2016-08-17			
32561US01	USA	Utility	15/239,344		2016-08-17			



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32616US01	USA	Utility	15/704,139		2017-09-14			
32647US01	USA	Utility	15/333,032		2016-10-24			
32648US01	USA	Utility	15/333,002		2016-10-24			
32652US01	USA	Utility	15/909,484		2018-03-01			
32663US01	USA	Utility	15/685,443		2017-08-24			
32671US01	USA	Utility	15/664,577		2017-07-31			
32694US01	USA	Utility	16/159,589		2018-10-12			
32755US01	USA	Utility	15/420,632		2017-01-31			
32779US01	USA	Utility	16/161,868		2018-10-16			
32797US01	USA	Utility	15/718,799		2017-09-28			
32814US01	USA	Utility	15/787,069		2017-10-18			
32825US01	USA	Utility	15/717,596		2017-09-27			
32880US01	USA	Utility	15/724,787		2017-10-04			
32890US01	USA	Utility	15/847,032		2017-12-19			
32894US01	USA	Utility	15/909,539		2018-03-01			
32924US01	USA	Utility	15/856,966		2017-12-28			
32973US01	USA	Utility	15/885,021		2018-01-31			
32994US01	USA	Utility	15/811,024		2017-11-13			
33008US01	USA	Utility	15/660,433		2017-07-26			

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33011US01	USA	Utility	16/229,739		2018-12-21			
33015US01	USA	Utility	15/983,990		2018-05-18			
33028US01	USA	Utility	15/936,953		2018-03-27			
33032US01	USA	Utility	15/804,757		2017-11-06			
33042US01	USA	Utility	15/873,314		2018-01-17			
33072US01	USA	Utility	15/806,971		2017-11-08			
33080US01	USA	Utility	15/807,785		2017-11-09			
33123US01	USA	Utility	15/957,460		2018-04-19			
33174US01	USA	Utility	15/909,569		2018-03-01			
33344US01	USA	Utility	16/012,299		2018-06-19			
33384US01	USA	Utility	16/012,305		2018-06-19			
33541US01	USA	Utility	16/587,542		2019-09-30			
33547US01	USA	Utility	16/176,187		2018-10-31			
33592US01	USA	Utility	16/227,855		2018-12-20			
33653US01	USA	Utility	16/227,826		2018-12-20			
33738US01	USA	Utility	16/289,630		2019-02-28			
33765US01	USA	Utility	16/547,736		2019-08-22			
33799US01	USA	Utility	16/570,653		2019-09-13			
33926US01	USA	Utility	62/816,732		2019-03-11			

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33935US01	USA	Utility	62/782,038		2018-12-19			
33982US01	USA	Utility	16/552,227		2019-08-27			
33985US01	USA	Utility	16/555,387		2019-08-29			
34000US01	USA	Utility	16/552,205		2019-08-27			
34015US01	USA	Utility	16/586,107		2019-09-27			
34129US01	USA	Utility	16/599,325		2019-10-11			
4077	USA	Utility	09/738,059		2000-12-15	6,616,421		2003-09-09
4109	USA	Utility	11/333,570		2006-01-17	8,979,506		2015-03-17
4113	USA	Utility	09/818,405		2001-03-27	6,488,467		2002-12-03
4134	USA	Utility	09/918,119		2001-07-30	6,992,235		2004-02-17
4135	USA	Utility	10/769,666		2004-01-30	7,832,992		2010-11-16
4136	USA	Utility	12/173,710		2008-07-15	7,819,634		2010-10-26
4144	USA	Utility	10/178,989		2002-06-25	6,767,390		2004-07-27
4151	USA	Utility	11/060,857		2005-02-18	7,275,872		2007-10-02
4366	USA	Utility	11/340,115		2006-01-26			
4565	USA	Utility	12/835,582		2010-07-13	8,474,277		2013-07-02
4739	USA	Utility	10/889,146		2004-07-12	7,909,588		2011-03-22
5207	USA	Utility	11/200,613		2005-08-10	7,568,503		2009-08-04
5208	USA	Utility	12/534,822		2009-08-03	7,637,282		2009-12-29
5209	USA	Utility	12/643,262		2009-12-21	7,971,600		2011-07-05
5210	USA	Utility	13/104,328		2011-05-10	8,631,812		2014-01-21
5253	USA	Utility	12/944,658		2010-11-11	8,069,949		2011-12-06
5254	USA	Utility	13/217,202		2011-08-24	8,496,089		2013-07-30
5255	USA	Utility	11/356,507		2006-02-17	7,854,299		2010-12-21
5288	USA	Utility	12/525,817		2008-04-02	8,393,856		2013-03-12
5635	USA	Utility	12/992,076		2010-11-10	9,482,235		2016-11-01
5815	USA	Utility	11/956,139		2007-12-13	8,393,860		2013-03-12
5839	USA	Utility	12/121,679		2008-05-15	8,499,892		2013-08-06
6420	USA	Utility	13/262,627		2010-04-22	9,033,651		2015-05-19
6476	USA	Utility	13/386,025		2010-07-19	9,222,485		2015-12-29
6496	USA	Utility	13/386,027		2012-01-19	9,243,648		2016-01-26
6577	USA	Utility	12/839,290		2010-07-19	8,616,836		2013-12-31

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6597	USA	Utility	12/701,446		2010-02-05	8,602,728		2013-12-10
6629	USA	Utility	13/009,396		2011-01-19	8,978,824		2015-03-17
6632	USA	Utility	12/839,320		2010-07-19	8,511,981		2013-08-20
6655	USA	Utility	13/113,898		2011-05-23	8,951,009		2015-02-10
7202	USA	Utility	13/540,570		2012-07-02	8,540,054		2013-09-24
7592	USA	Utility	13/906,314		2013-05-30	9,670,937		2017-06-06
7593	USA	Utility	13/906,308		2013-05-30	9,670,935		2017-06-06
7595	USA	Utility	13/906,326		2013-05-30	9,605,683		2017-03-28
7646	USA	Utility	13/791,897		2013-03-08	9,371,838		2016-06-21
7713	USA	Utility	13/975,283		2013-08-23	9,587,646		2017-03-07
7758	USA	Utility	13/952,614		2013-07-27	9,243,640		2016-01-26
7810	USA	Utility	13/929,751		2013-06-27	8,931,291		2015-01-13
7822	USA	Utility	14/145,638		2013-12-31	9,458,967		2016-10-04
7861	USA	Utility	13/952,485		2013-07-26	9,512,752		2016-12-06
7878	USA	Utility	13/955,724		2013-07-31	9,394,916		
7920	USA	Utility	14/220,882		2014-03-20	9,868,155		2018-01-16
8817	USA	Utility	14/144,504		2013-12-30	9,551,355		2017-01-24
8819	USA	Utility	14/144,459		2013-12-30	9,353,741		2016-05-31