

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT8219873

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
INGERSOLL-RAND COMPANY	11/30/2019
RECEIVING PARTY DATA	
Name:	INGERSOLL-RAND INDUSTRIAL U.S., INC.
Street Address:	525 HARBOUR PLACE
Internal Address:	SUITE 600
City:	DAVIDSON
State/Country:	NORTH CAROLINA
Postal Code:	28036
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	18371806
CORRESPONDENCE DATA	
Fax Number:	(402)504-1636
<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:	402-502-1020
Email:	uspto@adventip.com
Correspondent Name:	ADVENT, LLP
Address Line 1:	THE ADVENT BUILDING
Address Line 2:	17838 BURKE STREET, SUITE 200
Address Line 4:	OMAHA, NEBRASKA 68118
ATTORNEY DOCKET NUMBER:	20019.0872USC1
NAME OF SUBMITTER:	KEVIN E. WEST
SIGNATURE:	/ kevin e. west /
DATE SIGNED:	10/13/2023
Total Attachments: 42	
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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.

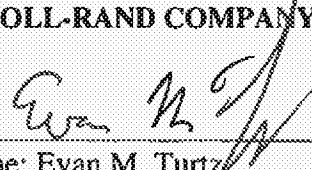
Section 5. Further Assurances. Each Party covenants and agrees that, without any additional consideration, it shall execute and deliver any further legal instruments and perform any acts that are or may become necessary to effectuate this Agreement.

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

PATENT

REEL: 065230 FRAME: 0799

SCHEDULE 1

Patent Ref	Country	Type	App. No.	Jur. Specific App. No.	Filed Date	Patent No.	Jur. Specific Pat. No.	Grant Date
030351BE01	Belgium	Utility	07718005.7		2007-01-11	1974146		2018-10-31
030377BE01	Belgium	Utility	06250854.4		2006-02-17	1693582		2009-04-08
030950BE01	Belgium	Utility	06744960.9		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
11308BR01	Brazil	Design	D15901656-6		1999-08-24	D15901656-6		2000-03-08
4103	Brazil	Utility	P10706601-5		2007-01-11			
5246	Brazil	Utility	P10707952.4		2007-02-15			
5631	Brazil	Utility	P10916340-9		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
11896CA01	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
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11948CN01	China	Design	201030125843.7	2010-02-23	301426405	2010-12-19
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11950CN01	China	Design	200930286449.9	2009-12-04	301334618	2009-12-04
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14002CN01	China	Design	201330054853.X	2013-03-06	302734122	2014-02-12
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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	ZL201530049	2015-09-16
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32122CN01	China	Design	201530501368.1	2015-12-04	ZL201530501	2016-05-25
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031975CN01	China	Utility	201480043125.0	2014-04-28	ZL201480043	2019-02-22
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031976CN01	China	Utility	201480043084.5	2014-04-28	ZL201480043	2019-07-16
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031977CN01	China	Utility	201480043157.0	2014-04-28	ZL201480043	2017-11-14
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10102CN01	China	Utility	201180016766.3	2011-01-28	102812246	2015-01-28
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	ZL201080065	2016-03-02
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10894CN01	China	Utility	200710005348.X	2007-02-14	101025310	2010-10-20
10906CN01	China	Utility	200680013284.1	2006-02-24	101163887	2013-05-22
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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
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13032CN01	China	Utility	201410084320.X	2014-03-10	ZL201410084320.X	2016-08-17
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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	2013800528321	2013-10-10	ZL2013800528321	2017-03-29
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14003CN01	China	Utility	201380056262.3	2013-08-27	ZL201380056262.3	2017-05-31
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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

SCHEDULE 1

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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		
18759CN01	China	Utility	201680031740.9	2016-06-03		
18760CN02	China	Utility	201680031397.8	2016-06-03		
18761CN02	China	Utility	201680031488.1	2016-06-03		
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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		

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18946CN01	China	Utility	201710317137.3	2017-05-08		
18986CN01	China	Utility	201811569396.6	2018-12-21		
19033CN01	China	Utility	201680031738.1	2016-06-03		
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32142CN01	China	Utility	201910129296.X	2019-02-21		
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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32282CN01	China	Utility	201710834904.8	2017-09-15		
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32509CN01	China	Utility	201711444346.0	2017-12-27		
32517CN01	China	Utility	201810816883.1	2018-07-24		
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32560CN01	China	Utility	201710701664.4	2017-08-16		
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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

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031096EP01	EPO	Utility	08765606.4	2008-05-15	2181254	2019-07-03
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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

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14001EP01	EPO	Utility	13780286.4	2013-10-10	2906325	2019-05-08
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10096FFR01	France	Utility	08153037.0	2008-03-19	1990534	2016-10-19
10108FFR01	France	Utility	05255584.4	2005-09-12	1650437	2012-08-29
10115FFR01	France	Utility	10844145.2	2010-10-28	2526298	2019-04-24
10116FFR01	France	Utility	11858285.7	2011-02-10	2673511	2019-06-05
10117FFR01	France	Utility	10857612.5	2010-09-23	2635814	2017-11-22
10118FFR01	France	Utility	12764811.1	2012-04-02	2694899	2017-08-02
10355FFR01	France	Utility	10701173.6	2010-01-15	2523743	2018-03-07
10484FFR01	France	Utility	05764124.3	2005-06-29	1761708	2012-03-21
10495FFR01	France	Utility	06803543.5	2006-09-13	1963683	2010-04-14
10501FFR01	France	Utility	07756926.7	2007-02-13	1984628	2014-12-17

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10838FR01	France	Utility	01309643.3	2001-11-15	1229249	2007-08-22
10839FR01	France	Utility	01309640.9	2001-11-15	1229248	2008-12-17
10839FR02	France	Utility	08004551.1	2001-11-15	1936201	2014-01-08
10858FR01	France	Utility	02720939.4	2002-02-05	1366293	2009-05-27
10874FR01	France	Utility	05712002.4	2005-01-24	1728020	2010-06-23
10892FR01	France	Utility	05254750.2	2005-07-29	1649921	2012-09-05
10904FR01	France	Utility	05257628.7	2005-12-13	1669607	2010-04-21
10907FR01	France	Utility	06251515.0	2006-03-22	1715238	2009-02-11
10911FR01	France	Utility	07254982.7	2007-12-20	1946819	2010-11-10
10913FR01	France	Utility	08253331.6	2008-10-14	2058522	2012-06-27
10916FR01	France	Utility	09250029.7	2009-01-07	2213357	2012-09-19
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
11018FR01	France	Utility	11838851.1	2011-11-04	2635411	2017-03-22
11020FR01	France	Utility	11868785.4	2011-06-29	2726255	2018-09-19
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11023FR01	France	Utility	11870377.6	2011-08-01	2740171	2016-12-07
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11796FR01	France	Utility	03257505.2	2003-11-28	1473120	2007-02-21
11895FR01	France	Utility	05255148.8	2005-08-19	1627709	2012-12-19
11903FR01	France	Utility	04251122.0	2004-02-27	1454713	2016-07-13
11938FR01	France	Utility	08162034.6	2008-08-07	2025473	2013-10-16
11944FR01	France	Utility	10759184.4	2010-03-09	2414121	2013-07-31
12473FR01	France	Utility	07107020.5	2007-04-26	1863107	2011-10-26
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

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14078FR01	France	Utility	15155357.5	2015-02-17	2944430	2016-09-14
17745FR01	France	Utility	15003687.9	2015-12-29	3041113	2019-04-10
18155FR01	France	Utility	14200020.7	2014-12-23	2891799	2018-10-17
18165FR01	France	Utility	14151446.3	2014-01-16	2759377	2019-04-03
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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	2019-08-28
33008FR01	France	Utility	18185728.5	2018-07-26	3434540	2020-01-01
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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
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10089DE01	Germany	Utility	07250171.1	2007-01-17	1813810	2009-09-23
10091EP02	Germany	Utility	08167111.7	2005-05-19	2012012	2010-10-20
10094DE01	Germany	Utility	08153032.1	2008-03-19	1983188	2013-07-03
10095DE01	Germany	Utility	08153039.6	2008-03-19	1992814	2011-11-23
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10115DE01	Germany	Utility	10844145.2	2010-10-28	2526298	2019-04-24

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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
10490DE01	Germany	Utility	06803834.8	602006051389.5	2006-09-19	1926915	DE1926915	2016-12-28
10495DE01	Germany	Utility	06803543.5		2006-09-13	1963683		2010-04-14
10501DE01	Germany	Utility	07756926.7		2007-02-13	1984628		2014-12-17
10502DE01	Germany	Utility	06848233.0		2006-12-28	2024645		2010-10-20
10831DE01	Germany	Utility	02784261.6		2002-10-22	1438509	60218720.6	2007-03-07
10838DE01	Germany	Utility	01309643.3		2001-11-15	1229249	60130093.9	2007-08-22
10839DE01	Germany	Utility	01309640.9		2001-11-15	1229248	60137015.5	2008-12-17
10839DE02	Germany	Utility	08004551.1		2001-11-15	1936201		2014-01-08
10858DE01	Germany	Utility	02720939.4		2002-02-05	1366293	60232435.1	2009-05-27
10874DE01	Germany	Utility	05712002.4		2005-01-24	1728020	602005021955	2010-06-23
10892DE01	Germany	Utility	05254750.2		2005-07-29	1649921		2012-09-05
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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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10927DE01	Germany	Utility	10706418.0	602010039128.0	2010-02-12	2475892		2017-01-15
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11015DE01	Germany	Utility	11861984.0	602011032810.7	2011-03-31	2691215	602011032810.7	2016-11-23
11016DE02	Germany	Utility	11862703.3	602011029482.2	2011-03-31	2691213		2016-08-17
11017DE01	Germany	Utility	11862292.7		2011-03-31	2691212		2016-12-14
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11021DE02	Germany	Utility	11870463.4	602011031097.6	2011-08-01	2739439		2016-10-05
11023DE01	Germany	Utility	11870377.6		2011-08-01	2740171	602011033275.9	2016-12-07

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11024DE02	Germany	Utility	12819972.6	602012023844.5	2012-08-01	2739440	602012023844.5	2016-10-05
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11796DE01	Germany	Utility	03257505.2		2003-11-28	1473120	60311964.6	2007-02-21
11895DE01	Germany	Utility	05255148.8		2005-08-19	1627709		2012-12-19
11903DE01	Germany	Utility	04251122.0		2004-02-27	1454713		2016-07-13
11938DE01	Germany	Utility	08162034.6		2008-08-07	2025473		2013-10-16
11943DE01	Germany	Utility	09831192.1		2009-12-04	2352622	602009052153.5	2018-05-02
12473DE01	Germany	Utility	07107020.5		2007-04-26	1863107		2011-10-26
12474DE01	Germany	Utility	07109228.2		2007-05-30	1862268	602007022371.7	2012-05-02
12474DE02	Germany	Utility	12154262.5		2007-05-30	2452787	602007031938.2	2013-07-24
12474DE03	Germany	Utility	12154256.7		2007-05-30	2452787		2014-07-02
12475DE01	Germany	Utility	07119385.8		2007-10-26	1918071	602007003795.6	2009-12-16
12476DE02	Germany	Utility	07120111.5		2007-05-31	1906470		2011-12-14
13023DE01	Germany	Utility	13838798.0		2013-09-18	2897766	602013025604.7	2017-08-23
13025DE01	Germany	Utility	16161608.1		2016-03-22	3073062		2018-09-12
13032DE01	Germany	Utility	14155542.5		2014-02-18	2777882		2018-12-05
13071DE01	Germany	Utility	13836729.7		2013-09-14	2895785		2020-01-22
13362DE01	Germany	Utility	13196420.7		2013-12-10	2754894		2016-04-27
13481DE01	Germany	Utility	14160299.5		2014-03-17	2779373		2019-05-01
14001DE01	Germany	Utility	13783439.6	602013034442.6	2015-03-31	2906328		2018-03-14
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14078DE01	Germany	Utility	15155357.5		2015-02-17	2944430		2016-09-14
17745DE01	Germany	Utility	15003687.9		2015-12-29	3041113		2019-04-10
17815DE01	Germany	Utility	14181567.0		2014-08-20	2860401		2016-06-01
17903DE01	Germany	Utility	14163017.8		2014-04-01	2787216		2017-07-26
17917DE01	Germany	Utility	15167267.2		2015-05-12	2947040		2017-03-01
18155DE01	Germany	Utility	14200020.7		2014-12-23	2891799		2018-10-17
18165DE01	Germany	Utility	14151446.3		2014-01-16	2759377	602014043878.4	2019-03-29
18335DE01	Germany	Utility	15170228.9		2015-06-02	2952747		2018-03-21
18573DE01	Germany	Utility	15191000.7		2015-10-22	3018349		2018-12-19
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32263DE02	Germany	Utility		102017108196.8	2017-04-18			
32263DE03	Germany	Utility		102017108203.4	2017-04-18		102017108203	2019-03-14
32279DE01	Germany	Utility	10 2017 105 214.3		2017-03-13			

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33008DE01	Germany	Utility	18185728.5	2018-07-26	3434540	2020-01-01
7985	Germany	Utility	10735151.2	2010-07-19	2456984	2013-10-09
9192	Germany	Utility	10735152.0	2010-07-19	2456983	2014-06-25
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10932IN01	India	Utility	6109/CHENP/2012	2012-07-12		
18598IN01	India	Utility	201634029548	2016-08-30		
18599IN01	India	Utility	201634028382	2016-08-20		
18685US01	India	Utility	536/KOL/2014	2014-05-14		
18707IN01	India	Utility	201634028386	2016-08-20		
32277IN01	India	Utility	201714031842	2017-09-08		
32282IN01	India	Utility	201734032305	2017-09-12		
32558IN01	India	Utility	201734026627	2017-07-26		
32560IN01	India	Utility	201734026625	2017-07-26		
32561IN01	India	Utility	201734026623	2017-07-26		
32652IN01	India	Utility	201731007312	2017-03-01		
34000IN01	India	Utility	201911028453	2019-07-15		
4443	India	Utility	IN/PCT/2002/00764	2000-11-30	205099	2007-06-22
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11901IT01	Italy	Design	M12002C000628	2002-09-20	87028	2005-02-03
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10089IT01	Italy	Utility	07250171.1	2007-01-17	1813810	2009-09-23
10091EP02	Italy	Utility	08167111.7	2005-05-19	2012012	2010-10-20
10094IT01	Italy	Utility	08153032.1	2008-03-19	1983188	2013-07-03
10095IT01	Italy	Utility	08153039.6	2008-03-19	1992814	2011-11-23
10096IT01	Italy	Utility	08153037.0	2008-03-19	1990534	2016-10-19
10108IT01	Italy	Utility	05255584.4	2005-09-12	1650437	2012-08-29
10118IT01	Italy	Utility	12764811.1	2012-04-02	2694899	2017-08-02
10255IT01	Italy	Utility	10701173.6	2010-01-15	2523743	2018-03-07
10484IT01	Italy	Utility	05764124.3	2005-06-29	1761708	2012-03-21
10495IT01	Italy	Utility	06803543.5	2006-09-13	1963683	2010-04-14
10501IT01	Italy	Utility	07756926.7	2007-02-13	1984628	2014-12-17

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10502IT01	Italy	Utility	0684823.0	2006-12-28	2024645	2010-10-20
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10838IT01	Italy	Utility	01309643.3	2001-11-15	1229249	2007-08-22
10839IT01	Italy	Utility	01309640.9	2001-11-15	1229248	2008-12-17
10839IT02	Italy	Utility	08004551.1	2001-11-15	1936201	2014-01-08
10858IT01	Italy	Utility	02720939.4	2002-02-05	1366293	2009-05-27
10874IT01	Italy	Utility	05712002.4	2005-01-24	1728020	2010-06-23
10892IT01	Italy	Utility	05254750.2	2005-07-29	1649921	2012-09-05
10904IT01	Italy	Utility	05257628.7	2005-12-13	1669607	2010-04-21
10907IT01	Italy	Utility	06251515.0	2006-03-22	1715238	2009-02-11
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10916IT01	Italy	Utility	09250029.7	2009-01-07	2213357	2012-09-19
10927IT01	Italy	Utility	10706418.0	2010-02-12	2475892	2017-01-15
10929IT01	Italy	Utility	10844108.0	2010-01-22	2526297	2016-04-20
11014IT01	Italy	Utility	11862178.8	2011-03-31	2691211	2017-06-28
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11016IT02	Italy	Utility	11862703.3	2011-03-31	2691213	2016-08-17
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11018IT01	Italy	Utility	11838851.1	2011-11-04	2635411	2017-03-22
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11796IT01	Italy	Utility	03257505.2	2003-11-28	1473120	2007-02-21
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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
14078IT01	Italy	Utility	15155357.5	2015-02-17	2944430	2016-09-14
18155IT01	Italy	Utility	14200020.7	2014-12-23	2891799	2018-10-17

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18335IT01	Italy	Utility	15170228.9	2015-06-02	2952747	2018-03-21
18685IT01	Italy	Utility	15167591.5	2015-05-13	2944759	2018-02-14
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
4105	Norway	Utility	20083279	2007-01-11	343747	2019-05-27
5249	Norway	Utility	20083586	2007-02-15	340671	2017-05-29
18674WO01	PCT	Utility	PCT/US2018/0507 47	2018-09-12		
32226WO01	PCT	Utility	PCT/US2019/0305 22	2019-05-03		
32260WO01	PCT	Utility	PCT/US2019/0203 25	2019-03-01		
32428WO01	PCT	Utility	PCT/US2019/0143 47	2019-01-18		
32894WO01	PCT	Utility	PCT/US2019/0203 24	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
10838ES01	Spain	Utility	01309643.3	2001-11-15	1229249	2007-08-22
10839ES01	Spain	Utility	01309640.9	2001-11-15	1229248	2008-12-17
13023ES01	Spain	Utility	13838798.0	2013-09-18	2897766	2017-08-23
13025ES01	Spain	Utility	16161608.1	2016-03-22	3073062	2018-09-12
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
11014SE01	Sweden	Utility	11862178.8	2011-03-31	2691211	2017-06-28
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
11018SE01	Sweden	Utility	11838851.1	2011-11-04	2635411	2017-03-22
11021SE02	Sweden	Utility	11870463.4	2011-08-01	2739439	2016-10-05

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11023SE01	Sweden	Utility	11870377.6	2011-08-01	2740171	2016-12-07
11903SE01	Sweden	Utility	04251122.0	2004-02-27	1454713	2016-07-13
12474SE01	Sweden	Utility	12154262.5	2007-05-30	2452788	2013-07-24
12474SE02	Sweden	Utility	12154256.7	2007-05-30	2452787	2014-07-02
14078SE01	Sweden	Utility	15155357.5	2015-02-17	2944430	2016-09-14
031436CH01	Switzerland	Utility	14167593.4	2010-07-19	2799717	2019-10-9
11308GB01	United Kingdom	Design	2085270	1999-07-26	2085270	1999-09-29
11901GB01	United Kingdom	Design	3007254	2002-09-21	3007254	2002-11-18
030351GB01	United Kingdom	Utility	07718005.7	2007-01-11	1974146	2018-10-31
030377GB01	United Kingdom	Utility	06250854.4	2006-02-17	1693582	2009-04-08
030950GB01	United Kingdom	Utility	08744960.9	2008-04-02	2150704	2017-08-09
030950GB02	United Kingdom	Utility	12006922.4	2008-04-02	2543886	2019-06-05
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
031096GB01	United Kingdom	Utility	08755606.4	2008-05-15	2181254	2019-07-03
031433GB01	United Kingdom	Utility	13002375.7	2010-07-19	2623794	2018-07-04
031433GB01	United Kingdom	Utility	13002376.5	2010-07-19	2623795	2018-07-04
031436GB01	United Kingdom	Utility	14167593.4	2010-07-19	2799717	
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
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
10091EP02	United Kingdom	Utility	08167111.7	2005-05-19	2012012	2010-10-20
10094GB01	United Kingdom	Utility	08153032.1	2008-03-19	1983188	2013-07-03
10095GB01	United Kingdom	Utility	08153039.6	2008-03-19	1992814	2011-11-23
10096GB01	United Kingdom	Utility	08153037.0	2008-03-19	1990534	2016-10-19
10108GB01	United Kingdom	Utility	05255584.4	2005-09-12	1650437	2012-08-29
10115GB01	United Kingdom	Utility	10844145.2	2010-10-28	2526298	2019-04-24
10116GB01	United Kingdom	Utility	11858285.7	2011-02-10	2673511	2019-06-05
10117GB01	United Kingdom	Utility	10857612.5	2010-09-23	2635814	2017-11-22
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
10484GB01	United Kingdom	Utility	05764124.3	2005-06-29	1761708	2012-03-21
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
10502GB01	United Kingdom	Utility	06848233.0	2006-12-28	2024645	2010-10-20
10831GB01	United Kingdom	Utility	02784261.6	2002-10-22	1438509	2007-03-07
10838GB01	United Kingdom	Utility	01309643.3	2001-11-15	1229249	2007-08-22

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10839GB01	United Kingdom	Utility	01309640.9	2001-11-15	1229248	2008-12-17
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
10904GB01	United Kingdom	Utility	05257628.7	2005-12-13	1669607	2010-04-21
10907GB01	United Kingdom	Utility	06251515.0	2006-03-22	1715238	2009-02-11
10911GB01	United Kingdom	Utility	07254982.7	2007-12-20	1946819	2010-11-10
10913GB01	United Kingdom	Utility	08253331.6	2008-10-14	2058522	2012-06-27
10927GB01	United Kingdom	Utility	10706418.0	2010-02-12	2475892	2017-01-15
10932GB01	United Kingdom	Utility	11733423.5	2012-07-04	2524143	2017-08-09
11012GB01	United Kingdom	Utility	12767994.2	2012-04-04	2694253	2019-06-05
11014GB01	United Kingdom	Utility	11862178.8	2011-03-31	2691211	2017-06-28
11015GB01	United Kingdom	Utility	11861984.0	2011-03-31	2691215	2016-11-23
11016GB02	United Kingdom	Utility	11862703.3	2011-03-31	2691213	2016-08-17
11017GB01	United Kingdom	Utility	11862292.7	2011-03-31	2691212	2016-12-14
11018GB01	United Kingdom	Utility	11838851.1	2011-11-04	2635411	2017-03-22
11020GB01	United Kingdom	Utility	11868785.4	2011-06-29	2726255	2018-09-19

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11021GB02	United Kingdom	Utility	11870463.4	2011-08-01	2739439	2016-10-05
11023GB01	United Kingdom	Utility	11870377.6	2011-08-01	2740171	2016-12-07
11024GB02	United Kingdom	Utility	12819972.6	2012-08-01	2739440	2016-10-05
11033GB01	United Kingdom	Utility	13824748.1	2013-08-02	2879826	2018-10-03
11796GB01	United Kingdom	Utility	03257505.2	2003-11-28	1473120	2007-02-21
11895GB01	United Kingdom	Utility	05255148.8	2005-08-19	1627709	2012-12-19
11903GB01	United Kingdom	Utility	04251122.0	2004-02-27	1454713	2016-07-13
11938GB01	United Kingdom	Utility	08162034.6	2008-08-07	2025473	2013-10-16
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
12474GB03	United Kingdom	Utility	12154256.7	2007-05-30	2452787	2014-07-02
12475GB01	United Kingdom	Utility	07119385.8	2007-10-26	1918071	2009-12-16
12476GB02	United Kingdom	Utility	07120111.5	2007-05-31	1906470	2011-12-14
13023GB01	United Kingdom	Utility	13838798.0	2013-09-18	2897766	2017-08-23
13025GB01	United Kingdom	Utility	16161608.1	2016-03-22	3073062	2018-09-12
13032GB01	United Kingdom	Utility	14155542.5	2014-02-18	2777882	2018-12-05
13071GB01	United Kingdom	Utility	13836729.7	2013-09-14	2895785	2020-01-22

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13481GB01	United Kingdom	Utility	14160299.5	2014-03-17	2779373	2019-05-01
14001GB01	United Kingdom	Utility	13783439.6	2015-03-31	2906328	2018-03-14
14001GB02	United Kingdom	Utility	13779717.1	2013-10-10	2906327	2018-02-21
14001GB03	United Kingdom	Utility	13780286.4	2013-10-10	2906325	2019-05-08
14078GB01	United Kingdom	Utility	15155357.5	2015-02-17	2944430	2016-09-14
17745GB01	United Kingdom	Utility	15003687.9	2015-12-29	3041113	2019-04-10
17903GB01	United Kingdom	Utility	14163017.8	2014-04-01	2787216	2017-07-26
18155GB01	United Kingdom	Utility	14200020.7	2014-12-23	2891799	2018-10-17
18165GB01	United Kingdom	Utility	14151446.3	2014-01-16	2759377	2019-04-03
18335GB01	United Kingdom	Utility	15170228.9	2015-06-02	2952747	2018-03-21
18573GB01	United Kingdom	Utility	15191000.7	2015-10-22	3018349	2018-12-19
18685GB01	United Kingdom	Utility	15167591.5	2015-05-13	2944759	2018-02-14
18958GB01	United Kingdom	Utility	16186268.5	2016-08-30	3135974	2019-08-28
32263GB03	United Kingdom	Utility	1706125.0	2017-04-18		
33008GB01	United Kingdom	Utility	18185728.5	2018-07-26	3434540	2020-01-01
4339	United Kingdom	Utility	0521787.2	2005-10-26	2431704	2008-12-03
5247	United Kingdom	Utility	0814970.0	2007-02-15	2448646	2011-11-02
5248	United Kingdom	Utility	1108617.0	2007-02-15	2478079	2011-11-09

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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
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	D686,092	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
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

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12479US01	USA	Design	29/260,789	2006-05-31	D566,007	2009-07-14
12480US01	USA	Design	29/260,702	2006-05-31	D563,314	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
133513US01	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
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	29/572,994	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
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
33926US01	USA	Provisional	62/816,732	2019-03-11		
33935US01	USA	Provisional	62/782,038	2018-12-19		
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

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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
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
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	9,667,732	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		
10355US01	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
10408US01	USA	Utility	09/446,367	2000-07-18	6,287,100	2001-09-11

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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
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
10531US01	USA	Utility	10/040,081	2001-10-24	6,520,758	2003-02-18
10832US01	USA	Utility	09/707,771	2000-11-08	6,443,182	2002-09-03
10833US01	USA	Utility	09/903,200	2001-07-11	6,470,693	2002-10-29
10836US01	USA	Utility	09/818,871	2001-03-27	6,431,210	2002-08-13
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
10853US02	USA	Utility	09/631,369	2000-08-02	6,491,057	2002-12-10
10858US01	USA	Utility	09/777,210	2001-02-05	6,447,264	2002-09-10
10858US02	USA	Utility	10/045,521	2001-10-26	6,790,012	2004-09-14
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
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

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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
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
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

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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
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
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

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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
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		
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		
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		

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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
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
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

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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
18584US01	USA	Utility	14/251,552	2014-04-11	9,592,600
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
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
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	
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
18685US01	USA	Utility	14/710,271	2015-05-12	10,047,766
18691US02	USA	Utility	15/172,214	2016-06-03	
18707US01	USA	Utility	14/832,558	2015-08-21	10,087,797
18712US01	USA	Utility	14/957,740	2015-12-03	9,777,882
18738US01	USA	Utility	15/256,949	2016-09-06	10,220,493
18748US02	USA	Utility	14/316,780	2014-06-26	9,664,186
18748US04	USA	Utility	14/316,770	2014-06-26	9,752,566
18748US05	USA	Utility	15/493,820	2017-04-21	10,174,750
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
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
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	

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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
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		
32250US01	USA	Utility	15/910,660	2018-03-02		
32263US02	USA	Utility	15/489,138	2017-04-17		

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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	10,272,377	2019-04-30
32517US01	USA	Utility	15/657,256	2017-07-24		
32539US01	USA	Utility	15/675,246	2017-08-11		
32558US01	USA	Utility	15/239,372	2016-08-17		
32560US01	USA	Utility	15/239,355	2016-08-17		
32561US01	USA	Utility	15/239,344	2016-08-17		
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		
33011US01	USA	Utility	16/229,739	2018-12-21		

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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	
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
4109	USA	Utility	11/333,570	2006-01-17	8,979,506
4113	USA	Utility	09/818,405	2001-03-27	6,488,467
4134	USA	Utility	09/918,119	2001-07-30	6,692,235
4135	USA	Utility	10/769,666	2004-01-30	7,832,992
4136	USA	Utility	12/173,710	2008-07-15	7,819,634
4144	USA	Utility	10/178,989	2002-06-25	6,767,390
4151	USA	Utility	11/060,857	2005-02-18	7,275,872
4366	USA	Utility	11/340,115	2006-01-26	
4565	USA	Utility	12/835,582	2010-07-13	8,474,277
4739	USA	Utility	10/889,146	2004-07-12	7,909,588
5207	USA	Utility	11/200,613	2005-08-10	7,568,503
5208	USA	Utility	12/534,822	2009-08-03	7,637,282
5209	USA	Utility	12/643,262	2009-12-21	7,971,600
5210	USA	Utility	13/104,328	2011-05-10	8,631,812

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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
6486	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
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

PATENT

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RECORDED: 10/13/2023