

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
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EPAS ID: PAT6718276

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SIEMENS AKTIENGESELLSCHAFT	02/28/2021

RECEIVING PARTY DATA

Name:	SIEMENS ENERGY GLOBAL GMBH & CO. KG
Street Address:	OTTO-HAHN-RING 6
City:	MUNICH
State/Country:	GERMANY
Postal Code:	81739

PROPERTY NUMBERS Total: 91

Property Type	Number
Patent Number:	6620541
Patent Number:	6645660
Patent Number:	8025705
Patent Number:	8074592
Patent Number:	8083817
Patent Number:	8148857
Patent Number:	8152514
Patent Number:	8196531
Patent Number:	8303673
Patent Number:	8414264
Patent Number:	8474261
Patent Number:	8485118
Patent Number:	8502545
Patent Number:	8580217
Patent Number:	8617755
Patent Number:	8643458
Patent Number:	8651067
Patent Number:	8657926
Patent Number:	8667678
Patent Number:	8673519

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Property Type	Number
Patent Number:	8685288
Patent Number:	8739866
Patent Number:	8739545
Patent Number:	8748054
Patent Number:	8894722
Patent Number:	8925321
Patent Number:	8939717
Patent Number:	8940451
Patent Number:	8977511
Patent Number:	9005826
Patent Number:	9054366
Patent Number:	9068924
Patent Number:	9234811
Patent Number:	9243482
Patent Number:	9273567
Patent Number:	9297532
Patent Number:	9306385
Patent Number:	9309780
Patent Number:	9325036
Patent Number:	9341114
Patent Number:	9347324
Patent Number:	9373875
Patent Number:	9403124
Patent Number:	9407088
Patent Number:	9434897
Patent Number:	9461325
Patent Number:	9464247
Patent Number:	9476311
Patent Number:	9527683
Patent Number:	9580160
Patent Number:	9695371
Patent Number:	9620832
Patent Number:	9639637
Patent Number:	9660257
Patent Number:	9660256
Patent Number:	9705168
Patent Number:	9780373
Patent Number:	9806327

Property Type	Number
Patent Number:	9805848
Patent Number:	9804110
Patent Number:	9810433
Patent Number:	9825282
Patent Number:	9827516
Patent Number:	9835335
Patent Number:	9853302
Patent Number:	9859766
Patent Number:	10036256
Patent Number:	10072895
Patent Number:	10100665
Patent Number:	10125624
Patent Number:	10132560
Patent Number:	10193348
Patent Number:	10196916
Patent Number:	10240795
Patent Number:	10241006
Patent Number:	10284042
Patent Number:	10287885
Patent Number:	10287993
Patent Number:	10337356
Patent Number:	10336674
Patent Number:	10351962
Patent Number:	10361024
Patent Number:	10385732
Patent Number:	10436058
Patent Number:	10457879
Patent Number:	10533750
Patent Number:	10562003
Patent Number:	10604853
Patent Number:	10668528
Patent Number:	10830156
Patent Number:	10837639

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER: VARIOUS

NAME OF SUBMITTER: LAURIE BEUMER

SIGNATURE: /Laurie Beumer/

DATE SIGNED: 05/19/2021

Total Attachments: 30

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ASSIGNMENT OF RIGHTS
Company to Company

WHEREAS, Siemens Aktiengesellschaft (Hereafter "Assignor") and Siemens Energy Global GmbH & Co. KG (Hereafter "Assignee") (individually referred to as "Party" and collectively as "Parties")

Hereby, (l)(A) acknowledge they have entered into certain agreements (hereinafter referred to as "the Agreements") which set forth certain rights, limitations and obligations regarding inventions developed by or among Parties, and/or Intellectual Property owned by one or both of the Parties and the Parties agree that the terms of the Agreements apply to any and all inventions; or

(B)(i) Agree to the extent such Agreement(s) or similar legal document(s) failed or fails, in whole or part, to have assigned, sold or transferred the entire right (including priority rights), title and interest, in and for the United States and all foreign countries, in and to all inventions which are disclosed in an invention disclosure and/or in the below-identified application or application already filed for Letters Patent, or (ii) if no such agreement(s) exist assigning, selling or transferring any such right (including priority rights), title or interest; then for good and valuable consideration, Assignor now and hereby, effective Nunc Pro Tunc on the filing date of the below identified patent application(s), pending patent application(s) or granted Letter Patent(s), assigns, sell and transfers to Assignee, its successors, assigns and legal representatives, the entire right, (including all priority rights), title and interest in and for the United States and all foreign countries, in and to any and all inventions and improvements which are disclosed in the following identified; patent application(s), pending patent application(s) or granted Letter Patent(s) which are disclosed in the application for Letters Patent or granted patent, entitled:

Filing Date: **18 Apr 2003**
Filing Number: **10/418,160**
Issue Number: **6979173**
Internal Case Number(s): **2002P01196 US**

and other patents as per list below:

No.	Internal file number	Filing date	Grant date	Application number	Grant number
1	1998P03600 US01	February 20, 2001	June 25, 2002	09/789,794	6408800
2	2000P24217 US	April 20, 2001	September 3, 2002	09/839,916	6443425
3	1998P03688 US01	March 12, 2001	December 10, 2002	09/804,326	6490867
4	1999P03230 US01	October 1, 2001	December 24, 2002	09/968,429	6497099
5	1998P03661 US01	February 28, 2001	March 25, 2003	09/795,091	6536204
6	2000P24227 US01	April 6, 2001	April 29, 2003	09/827,589	6554636
7	1999P03188 US01	September 26, 2001	September 16, 2003	09/963,958	6620541
8	1998P08088 US03	February 26, 2001	November 11, 2003	09/793,329	6645660
9	2000P24230 US01	April 12, 2001	December 9, 2003	09/833,939	6659780
10	2000P24226 US01	April 6, 2001	January 20, 2004	09/827,590	6679724
11	2000P84032WOUS	February 19, 2001	March 23, 2004	09/958,821	6709233
12	2006P25959 US	November 30, 2000	December 7, 2004	09/726,826	6827912
13	2000P20666WOUS	December 10, 2001	February 1, 2005	10/451,238	6849351

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PATENT

REEL: 056500 FRAME: 0418

14	2001P17466 US01	November 5, 2003	August 2, 2005	10/701,837	6924046
15	2000P24229WOUS	October 31, 2001	August 16, 2005	10/415,528	6929404
17	2002P08132 US	October 16, 2003	March 28, 2006	10/685,784	7019216
18	2002P16208 US	November 21, 2003	June 6, 2006	10/717,537	7055328
19	2004P01895 US	April 7, 2005	August 29, 2006	11/101,624	7097519
20	2003P11176 US	July 29, 2004	September 12, 2006	10/902,655	7104757
21	2001P24233WOUS	February 24, 2003	July 24, 2007	10/506,121	7246493
22	2000P14263WOUS	September 14, 2001	August 28, 2007	10/381,482	7261965
23	2001P08935WOUS	August 20, 2002	October 16, 2007	10/488,328	7281499
24	2000P20308WOUS	February 22, 2002	October 16, 2007	10/469,585	7282289
25	2002P20039WOUS	December 4, 2003	November 6, 2007	10/539,930	7290983
26	2001P09638WOUS	August 28, 2002	November 27, 2007	10/487,519	7299617
27	2001P21201WOUS	February 28, 2003	January 22, 2008	10/506,122	7320222
28	2004P01212 US	September 21, 2004	February 26, 2008	10/946,457	7334408
29	2003P15076WOUS	January 25, 2005	July 29, 2008	10/587,628	7404699
30	2004P13564 US	March 17, 2006	August 26, 2008	11/385,048	7415763
31	2003P54703 US	October 22, 2004	November 4, 2008	10/971,513	7445652
32	2002P11066WOUS	August 20, 2003	November 25, 2008	10/527,429	7455740
33	2003P12192WOUS	October 11, 2004	January 6, 2009	10/575,516	7472540
34	2003P08272WOUS	April 8, 2004	March 3, 2009	10/559,862	7497628
35	2004P06867 US	July 1, 2005	March 10, 2009	11/174,275	7500823
36	2003P04642WOUS	March 25, 2004	April 7, 2009	10/550,972	7513099
37	2003P13742WOUS	October 26, 2004	April 14, 2009	10/579,997	7516719
38	2000P14265WOUS	September 14, 2001	June 30, 2009	10/381,465	7553566
39	2003P15116WOUS	January 19, 2005	July 14, 2009	10/586,795	7559741
40	2003P11342WOUS	July 16, 2004	August 18, 2009	10/568,735	7574864
41	2004P00684WOUS	March 10, 2005	September 8, 2009	10/593,030	7585148
42	2005P05411WOUS	April 5, 2006	September 8, 2009	11/911,002	7586729
43	2005P05088 US	March 31, 2006	September 22, 2009	11/396,419	7592071
44	2003P03602WOUS	December 18, 2003	October 20, 2009	10/549,247	7605592
45	2006P25969 US	March 9, 2006	October 27, 2009	11/371,968	7607398
46	2003P08636WOUS	December 1, 2004	November 10, 2009	10/582,598	7614849
47	2006P25973 US	December 13, 2006	November 24, 2009	11/638,119	7621972
48	2004P03272WOUS	July 6, 2005	December 1, 2009	11/632,019	7624708
49	2005P00480WOUS	February 10, 2006	December 8, 2009	11/884,284	7628124
50	2006P20550WOUS	June 10, 2005	January 12, 2010	11/629,570	7646128
51	2004P00052WOUS	January 10, 2005	February 16, 2010	10/597,097	7663856
52	2003P08728WOUS	October 12, 2004	March 2, 2010	10/578,425	7670675
53	2004P20642WOUS	February 2, 2006	March 9, 2010	11/815,956	7676283
54	2005P02667WOUS	February 25, 2005	March 9, 2010	10/590,463	7674092
55	1998P08088 US04	July 30, 2004	March 23, 2010	10/909,219	7682725

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PATENT**REEL: 056500 FRAME: 0419**

56	2003P08635WOUS	December 15, 2004	April 27, 2010	10/585,954	7703312
57	2000P14266WOUS	November 21, 2001	May 25, 2010	10/433,052	7722974
58	2001P06010WOUS	July 8, 2002	June 1, 2010	10/482,388	7726133
59	2004P08349WOUS	July 21, 2005	June 15, 2010	11/658,530	7736418
60	2003P01065WOUS01	January 26, 2004	June 22, 2010	10/543,625	7741738
61	2006P25966 US	March 7, 2006	June 29, 2010	11/370,075	7744665
62	2002P14078WOUS	August 20, 2003	July 13, 2010	10/525,779	7753677
63	2004P00606WOUS	September 29, 2004	July 13, 2010	10/586,855	7753993
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65	2004P06870WOUS	June 13, 2005	July 20, 2010	11/632,013	7758309
66	2006P25971 US	October 12, 2006	July 27, 2010	11/580,097	7762200
67	2005P14408WOUS	September 27, 2006	August 3, 2010	12/083,424	7765807
68	2004P19918 US	February 3, 2006	August 24, 2010	11/347,545	7779637
69	2005P01404WOUS	December 30, 2005	August 24, 2010	11/795,942	7779695
70	2003P07721WOUS	June 18, 2004	September 14, 2010	10/562,740	7794202
71	2007P50341 US01	April 30, 2008	September 14, 2010	12/150,630	7794254
72	2005P10139WOUS	July 24, 2006	September 21, 2010	11/989,213	7800003
73	2005P06956WOUS	June 13, 2006	October 5, 2010	11/988,605	7805941
74	2005P10375WOUS	June 23, 2006	October 19, 2010	11/994,074	7816603
75	2005P01307WOUS	February 15, 2006	November 2, 2010	11/884,696	7824128
76	2007P17259 US	June 17, 2009	November 16, 2010	12/486,205	7832620
77	2006P25964 US	February 16, 2006	November 30, 2010	11/355,773	7842108
78	2005P11680WOUS	June 30, 2006	December 7, 2010	11/994,454	7847189
79	2003P09461WOUS	July 20, 2004	December 14, 2010	10/568,115	7849694
80	2017P01440 US	October 17, 2008	December 21, 2010	12/253,276	7854885
81	2003P03458WOUS	April 15, 2004	January 4, 2011	10/558,170	7862955
82	2005P04131WOUS	March 6, 2006	February 1, 2011	11/908,191	7881078
83	2006P07598 US01	April 20, 2007	February 1, 2011	11/788,733	7878004
84	2003P08635 US01	January 8, 2010	February 15, 2011	12/684,320	7887288
85	2003P17895WOUS	February 1, 2005	March 29, 2011	10/589,176	7915771
86	2005P11542WOUS	June 28, 2006	April 19, 2011	11/994,351	7928329
87	2007P06057 US	June 27, 2008	May 3, 2011	12/163,344	7936101
88	2006P01121WOUS	February 23, 2006	May 3, 2011	12/280,578	7936548
89	2003P14888WOUS	September 27, 2004	May 17, 2011	10/574,171	7945523
90	2006P22986WOUS	December 8, 2006	June 14, 2011	12/517,693	7960871
91	2005P10122WOUS	September 9, 2005	June 28, 2011	12/066,320	7969755
92	2007P07900WOUS	April 2, 2008	June 28, 2011	12/595,283	7969238
93	2006P12752WOUS	March 2, 2007	July 26, 2011	12/311,385	7987080
94	2006P03695WOUS	February 16, 2007	July 26, 2011	12/280,251	7986061
95	2008P04005 US	May 20, 2008	August 2, 2011	12/123,515	7989507
96	2004P08029WOUS	May 12, 2005	August 2, 2011	11/628,231	7987721


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PATENT**REEL: 056500 FRAME: 0420**

97	2007P13903 US	July 1, 2008	August 23, 2011	12/217,069	8002855
98	2017P01171 US	June 20, 2008	September 20, 2011	12/142,834	8021138
99	2006P15997WOUS	August 31, 2007	September 20, 2011	12/447,009	8023550
100	2003P09850WOUS	September 30, 2005	September 20, 2011	11/665,101	8020387
101	2007P13609 US	July 22, 2008	September 27, 2011	12/220,132	8025705
102	2003P14050WOUS	September 8, 2004	September 27, 2011	10/575,979	8025984
103	2005P14072WOUS	October 26, 2006	October 18, 2011	12/086,403	8038801
104	2005P06259WOUS	March 17, 2006	November 1, 2011	11/922,149	8047775
105	2005P09527WOUS	June 2, 2005	November 22, 2011	11/916,386	8065580
106	2006P04971WOUS	May 29, 2007	November 29, 2011	12/227,928	8066471
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108	2007P16216 US	August 21, 2008	December 6, 2011	12/229,325	8070484
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111	2007P02683WOUS	February 13, 2007	December 20, 2011	12/527,075	8081423
112	2001P13794WOUS	July 26, 2002	December 27, 2011	10/763,786	8086325
113	2005P05698WOUS	March 23, 2006	December 27, 2011	11/910,280	8085121
114	2007P22467WOUS	September 24, 2008	December 27, 2011	12/739,267	8083817
115	2005P10430WOUS	June 17, 2005	January 3, 2012	11/916,388	8089372
116	2006P11087WOUS	April 25, 2007	January 10, 2012	12/227,912	8091366
117	2005P09520WOUS	June 2, 2005	January 17, 2012	11/916,382	8098467
118	2007P19571 US01	October 24, 2007	January 17, 2012	11/877,908	8097381
119	2007P03239WOUS	March 4, 2008	January 31, 2012	12/530,239	8106321
120	2006P26575WOUS	December 21, 2006	February 21, 2012	12/520,547	8120888
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122	2007P17259 US01	October 4, 2010	February 28, 2012	12/897,249	8123110
123	2008P03992 US	May 18, 2009	February 28, 2012	12/467,391	8125219
124	2006P16350WOUS	July 26, 2007	February 28, 2012	12/376,197	8124878
125	2006P17888WOUS	August 22, 2007	March 6, 2012	12/311,255	8128373
126	2004P02540WOUS	April 1, 2005	March 20, 2012	11/578,920	8137055
127	2005P12102WOUS	August 2, 2006	March 20, 2012	12/067,575	8138632
128	2003P04642 US01	February 26, 2009	March 27, 2012	12/393,276	8141369
129	2006P23231WOUS	December 8, 2006	March 27, 2012	12/518,200	8144489
130	2005P00479WOUS	February 6, 2006	April 3, 2012	11/884,286	8146540
131	2007P01794WOUS	April 11, 2008	April 3, 2012	12/450,839	8148857
132	2007P07969 US	May 8, 2008	April 10, 2012	12/151,746	8152514
133	2004P17703WOUS	March 16, 2006	April 17, 2012	11/918,302	8157526
134	2006P03753WOUS	February 23, 2006	April 24, 2012	12/280,562	8164868
135	2006P25380WOUS	January 28, 2008	April 24, 2012	12/525,621	8164323
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137	2006P15107WOUS	October 25, 2007	May 1, 2012	12/515,845	8167563
138	2006P23110WOUS	December 8, 2006	May 22, 2012	12/517,817	8183874
139	2004P13951WOUS	March 8, 2006	June 5, 2012	11/919,856	8192142
140	2006P22824WOUS	October 18, 2007	June 12, 2012	12/447,327	8199452
141	2007P07683 US	May 6, 2008	June 12, 2012	12/151,405	8196531
142	2008P04371 US	June 23, 2009	June 12, 2012	12/489,681	8196405
143	2007P14837 US	July 22, 2008	June 12, 2012	12/220,131	8197248
144	2007P50341 US03	December 19, 2011	June 19, 2012	13/329,840	8202106
145	2004P12073WOUS	July 14, 2005	June 19, 2012	11/659,405	8202037
146	2005P15690WOUS	August 1, 2006	June 19, 2012	11/991,215	8204631
147	2008P06328WOUS	April 10, 2008	July 3, 2012	12/937,477	8212645
148	2006P22983 US	January 8, 2008	July 24, 2012	12/008,006	8226366
149	2006P23119WOUS	December 8, 2006	July 31, 2012	12/517,818	8233300
150	2006P25972 US	October 20, 2006	August 14, 2012	11/584,654	8240259
151	2010P26685 US01	February 3, 2011	September 18, 2012	13/020,148	8267707
152	2007P21228WOUS	September 28, 2007	September 25, 2012	12/680,337	8274350
153	2006P06255WOUS	June 8, 2006	October 2, 2012	12/308,002	8277195
154	2005P12847WOUS	October 30, 2006	October 2, 2012	12/084,920	8277187
155	2004P17703 US01	August 22, 2011	October 23, 2012	13/214,468	8292584
156	2007P06057 US01	April 29, 2011	October 23, 2012	13/097,354	8294313
157	2005P03710WOUS	March 31, 2006	October 30, 2012	11/887,859	8297236
158	2006P25970 US01	August 25, 2006	November 6, 2012	11/510,455	8303673
159	2007P19874WOUS	June 25, 2008	November 13, 2012	12/595,914	8307692
160	2005P17313WOUS	October 5, 2006	November 13, 2012	12/083,032	8307627
161	2005P15382WOUS	December 8, 2006	November 20, 2012	12/087,906	8313324
162	2007P03077WOUS	June 12, 2007	November 20, 2012	12/663,710	8314674
163	2006P09744WOUS	August 14, 2007	December 11, 2012	12/310,284	8327616
164	2008P11274WOUS	June 17, 2008	January 8, 2013	12/999,900	8351233
165	2009P09138WOUS	October 18, 2010	February 19, 2013	13/502,588	8375724
166	2007P01003WOUS	January 17, 2007	March 5, 2013	12/523,461	8390259
167	2007P07911WOUS	April 2, 2008	March 5, 2013	12/596,159	8390968
168	2007P17219WOUS	September 19, 2008	March 12, 2013	12/739,782	8396689
169	2009P11305 US	July 20, 2010	March 19, 2013	12/839,589	8398823
170	2005P12924WOUS	September 14, 2006	April 9, 2013	11/992,526	8414264
171	2017P01619 US	April 20, 2009	May 28, 2013	12/426,304	8452440
172	2006P26995WOUS	December 21, 2006	June 11, 2013	12/520,548	8462530
173	2007P24016WOUS	November 7, 2007	June 18, 2013	12/741,657	8467210
174	2007P19012 US	September 11, 2008	July 2, 2013	12/283,412	8475547
175	2006P25026WOUS	January 28, 2008	July 2, 2013	12/524,788	8474269
176	2008P25515WOUS	April 20, 2009	July 2, 2013	12/988,548	8474261
177	2007P19676 US	September 16, 2008	July 3, 2013	12/283,926	8475548

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178	2008P09194 US02	October 6, 2011	July 16, 2013	13/267,083	8485118
179	2006P14444WOUS	September 11, 2007	July 30, 2013	12/515,587	8496430
180	2008P20539WOUS	October 20, 2008	August 6, 2013	13/125,129	8502545
181	2008P03441WOUS	October 29, 2008	August 20, 2013	12/918,493	8512440
182	2008P25541WOUS	January 30, 2009	August 27, 2013	12/937,869	8520357
183	2010P04666 US	August 26, 2010	September 10, 2013	12/869,017	8532941
184	2009P09903WOUS	June 9, 2010	September 17, 2013	13/377,444	8536479
185	2007P09066WOUS	May 29, 2008	October 1, 2013	12/451,763	8545278
186	2006P18162WOUS	August 26, 2008	October 1, 2013	12/676,222	8545183
187	2005P10629WOUS	July 19, 2006	October 1, 2013	11/989,339	8545169
188	2008P25527WOUS	July 15, 2009	October 8, 2013	13/054,303	8552701
189	2010P08641 US	May 5, 2011	October 15, 2013	13/101,340	8559772
190	2009P01060WOUS	November 5, 2009	October 15, 2013	13/146,456	8557205
191	2006P21934WOUS	December 19, 2007	October 22, 2013	12/521,920	8566264
192	2008P22797WOUS	January 20, 2009	October 22, 2013	13/130,107	8564276
193	2007P03653WOUS	March 13, 2007	October 29, 2013	12/531,076	8570779
194	2009P04923WOUS	March 29, 2010	October 29, 2013	13/262,772	8569617
195	2005P20700WOUS	December 12, 2006	October 29, 2013	12/085,700	8567174
196	2003P11342 US01	July 10, 2009	November 5, 2013	12/500,816	8572982
197	2005P06244WOUS	April 13, 2007	November 12, 2013	12/227,739	8578745
198	2006P26975WOUS	February 6, 2007	November 12, 2013	12/525,821	8580217
199	2007P50341 US04	June 15, 2012	November 19, 2013	13/524,326	8585423
200	2010P08313WOUS01	June 1, 2011	November 19, 2013	13/806,196	8585351
201	2007P07912WOUS	June 30, 2008	November 26, 2013	12/665,389	8590285
202	2006P05790WOUS	February 27, 2007	November 26, 2013	12/227,470	8590317
203	2008P24306WOUS	January 22, 2010	December 3, 2013	13/201,230	8598483
204	2007P04491WOUS	August 1, 2008	December 3, 2013	12/672,129	8596227
205	2008P12251WOUS	November 10, 2009	December 10, 2013	13/128,453	8603831
206	2007P06080WOUS	April 10, 2008	December 17, 2013	12/596,780	8607455
207	2008P16565WOUS	August 17, 2009	December 17, 2013	13/061,622	8610384
208	2009P24107WOUS	May 18, 2010	December 24, 2013	13/321,361	8614614
209	2008P14884WOUS	December 22, 2009	December 31, 2013	13/140,129	8616517
210	2003P03453WOUS	April 16, 2004	December 31, 2013	10/558,169	8617755
211	2010P01433WOUS	May 9, 2011	January 7, 2014	13/700,533	8621905
212	2006P18330WOUS	March 27, 2008	January 14, 2014	12/532,503	8628292
213	2009P00049WOUS	January 26, 2010	January 21, 2014	13/201,470	8633413
214	2005P18538WOUS	February 28, 2007	January 28, 2014	12/225,147	8635876
215	2009P06567WOUS	April 16, 2009	February 4, 2014	13/264,836	8643458
216	2008P06753WOUS	July 8, 2009	February 11, 2014	13/054,190	8647054

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217	2008P11826WOUS	November 16, 2009	February 18, 2014	13/141,795	8653799
218	2005P16079WOUS	January 4, 2007	February 18, 2014	12/087,383	8651067
219	2009P05579WOUS	April 12, 2010	February 25, 2014	13/264,022	8657926
220	2008P15115WOUS	August 11, 2009	March 4, 2014	13/060,757	8664558
221	2008P05891WOUS	April 3, 2008	March 11, 2014	12/595,556	8667678
222	2006P18332WOUS	April 21, 2008	March 18, 2014	12/597,278	8672612
223	2007P19281WOUS	September 26, 2008	March 18, 2014	12/680,238	8673519
224	2008P03246WOUS	April 3, 2009	March 25, 2014	12/997,037	8678757
225	2011P06188WOUS	March 22, 2011	March 25, 2014	13/636,179	8680793
226	2011P20812 US	January 10, 2012	April 1, 2014	13/346,780	8685288
227	2008P17125WOUS	September 5, 2008	April 1, 2014	13/062,579	8687389
228	2006P26540 US	December 6, 2007	April 8, 2014	11/999,651	8690973
229	2009P03081 US	February 25, 2010	April 15, 2014	12/712,363	8700189
230	2009P20973 US	January 10, 2011	April 15, 2014	12/987,356	8695342
231	2010P08315WOUS01	June 22, 2011	April 22, 2014	13/806,204	8702391
232	2007P15673WOUS	September 7, 2009	April 22, 2014	13/062,727	8701602
233	2008P15917WOUS	November 19, 2009	May 13, 2014	13/132,641	8721272
234	2010P26642 US	July 12, 2011	May 13, 2014	13/180,578	8721291
235	2009P06648WOUS	June 8, 2010	May 13, 2014	13/380,585	8723069
236	2008P15917 US01	January 17, 2012	May 13, 2014	13/351,475	8721273
237	2008P02802 US	May 21, 2009	June 3, 2014	12/469,713	8739551
238	2008P07353WOUS	August 5, 2009	June 3, 2014	13/063,500	8739866
239	2009P05578 US	April 27, 2010	June 3, 2014	12/768,078	8739545
240	2007P25159 US	September 15, 2009	June 10, 2014	12/559,803	8747061
241	2005P09951WOUS	June 22, 2006	June 10, 2014	11/922,840	8748054
242	2011P00312 US	April 28, 2011	June 24, 2014	13/096,051	8757981
243	2008P09600WOUS	July 16, 2009	July 8, 2014	13/054,228	8770914
244	2008P02132WOUS	January 21, 2009	July 22, 2014	12/866,367	8786994
245	2017P02218 US	May 5, 2011	August 12, 2014	13/101,219	8804102
246	2005P01308WOUS	March 31, 2006	August 12, 2014	11/887,868	8800297
247	2011P12804 US	April 6, 2012	August 26, 2014	13/441,099	8816259
248	2006P23207WOUS	December 8, 2006	August 26, 2014	12/517,641	8817440
249	2007P09920WOUS	April 28, 2008	August 26, 2014	12/599,583	8813507
250	2010P22791WOUS	March 7, 2012	August 26, 2014	13/701,893	8813506
251	2011P06224 US01	March 19, 2012	September 9, 2014	13/423,393	8830655
252	2009P06649WOUS	June 8, 2010	September 9, 2014	13/380,732	8829371
253	2010P02094WOUS	February 11, 2010	September 16, 2014	13/578,664	8837185
254	2009P02110WOUS	February 4, 2010	September 23, 2014	13/148,332	8842404
255	2008P17141WOUS	January 14, 2010	September 30, 2014	13/254,901	8849443
256	2007P27555 US	May 20, 2009	September 30, 2014	12/469,049	8845392
257	2008P21582WOUS	March 4, 2010	September 30, 2014	13/254,245	8847449

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258	2008P14227WOUS	October 28, 2009	October 7, 2014	13/127,340	8851023
259	2006P05615 US01	March 28, 2012	October 7, 2014	13/432,001	8851754
260	2008P05927WOUS	March 26, 2009	October 7, 2014	12/935,940	8850820
261	2009P21603WOUS	December 14, 2010	October 14, 2014	13/515,867	8857070
262	2009P23171WOUS	February 15, 2011	October 14, 2014	13/578,701	8857455
263	2008P23075WOUS	November 10, 2009	October 14, 2014	13/131,430	8859927
264	2008P05917WOUS	March 26, 2009	October 21, 2014	12/935,919	8863524
265	2006P17807WOUS	December 20, 2007	October 28, 2014	12/520,134	8869534
266	2010P10522WOUS	March 29, 2011	October 28, 2014	13/699,801	8869535
267	2006P05615 US02	March 28, 2012	November 4, 2014	13/432,035	8876387
268	2009P00791 US01	January 30, 2012	November 18, 2014	13/360,842	8888460
269	2007P26319 US	December 5, 2008	November 25, 2014	12/329,260	8897045
270	2010P18820 US	June 24, 2011	November 25, 2014	13/167,900	8894722
271	2009P07159WOUS	April 14, 2010	November 25, 2014	13/640,372	8896306
272	2009P18449WOUS	October 9, 2009	November 25, 2014	13/500,178	8894408
273	2011P02438 US	December 8, 2011	November 25, 2014	13/314,311	8894359
274	2009P00791WOUS	January 27, 2010	November 25, 2014	13/201,877	8894371
275	2009P00674WOUS	December 30, 2009	December 2, 2014	13/143,586	8901773
276	2009P12327WOUS	August 17, 2010	December 9, 2014	13/394,869	8907640
277	2009P06317WOUS	August 10, 2010	December 16, 2014	13/393,264	8911215
278	2009P24092WOUS	October 6, 2010	December 23, 2014	13/499,491	8915217
279	2008P15929WOUS	September 16, 2009	January 6, 2015	13/119,438	8925321
280	2008P11820WOUS	September 8, 2009	January 13, 2015	13/121,736	8933378
281	2007P23524WOUS	March 5, 2009	January 27, 2015	12/921,415	8938966
282	2008P21629WOUS	November 23, 2009	January 27, 2015	13/130,619	8939704
283	2011P20819 US	February 15, 2013	January 27, 2015	13/768,561	8939711
284	2013P09591 US	October 25, 2013	January 27, 2015	14/063,153	8939717
285	2008P09718WOUS	September 24, 2009	January 27, 2015	13/121,571	8940451
286	2004P09970WOUS	June 20, 2005	February 10, 2015	11/659,551	8951008
287	2011P16721WOUS	July 24, 2012	February 17, 2015	14/237,870	8955324
288	2009P20934 US	February 17, 2011	February 17, 2015	13/029,246	8955328
289	2010P14033WOUS	September 2, 2011	February 24, 2015	13/822,429	8959915
290	2012P05450 US	March 15, 2013	March 3, 2015	13/833,633	8969729
291	2009P05705WOUS	July 29, 2009	March 10, 2015	13/387,404	8977511
292	2009P23313WOUS	January 6, 2011	March 10, 2015	13/522,359	8975551
293	2012P13721 US	September 5, 2012	March 10, 2015	13/603,699	8973372
294	2008P15561WOUS	December 2, 2009	March 17, 2015	13/139,734	8981583
295	2009P21478WOUS	November 19, 2009	March 17, 2015	13/510,341	8981712
296	2009P01448 US	November 11, 2010	March 17, 2015	12/944,002	8980372
297	2017P01975 US	October 18, 2011	March 24, 2015	13/275,694	8986604

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298	2009P11124WOUS	August 16, 2010	March 31, 2015	13/390,765	8996156
299	2009P12447WOUS	July 6, 2010	March 31, 2015	13/384,373	8994232
300	2009P20502WOUS	December 7, 2010	April 14, 2015	13/515,128	9005826
301	2011P02173 US	February 7, 2012	April 28, 2015	13/367,728	9017013
302	2009P07520WOUS	May 18, 2010	May 5, 2015	13/377,243	9024220
303	2011P00097 US	April 25, 2012	May 19, 2015	13/455,509	9032738
304	2008P21582 US01	May 28, 2014	June 2, 2015	14/288,652	9046105
305	2010P05491WOUS	September 29, 2010	June 2, 2015	13/876,946	9046901
306	2010P17512 US	November 24, 2010	June 9, 2015	12/953,507	9054366
307	2013P17379 US	November 7, 2013	June 23, 2015	14/073,922	9061349
308	2007P23750WOUS	November 13, 2007	June 23, 2015	12/741,737	9064737
309	2007P26646 US01	May 16, 2013	June 30, 2015	13/895,474	9068924
310	2009P24032 US01	August 7, 2014	June 30, 2015	14/453,929	9068514
311	2011P21422WOUS	September 5, 2012	July 7, 2015	14/348,151	9076611
312	2009P18316WOUS	March 23, 2010	July 7, 2015	13/635,960	9074268
313	2007P25199WOUS	April 14, 2009	July 7, 2015	12/937,770	9074764
314	2010P23201WOUS	February 10, 2012	July 14, 2015	14/001,281	9080467
315	2010P14100WOUS	October 4, 2011	July 14, 2015	13/877,743	9080465
316	2010P17238WOUS	September 20, 2011	July 14, 2015	13/825,641	9083206
317	2004P15760WOUS	May 10, 2006	July 21, 2015	11/920,396	9086219
318	2009P07362WOUS	April 27, 2009	August 4, 2015	13/266,519	9099891
319	2010P01701WOUS	May 24, 2011	August 11, 2015	13/699,023	9106123
320	2011P17706WOUS	September 15, 2011	August 18, 2015	14/345,288	9110481
321	2010P08153WOUS	April 28, 2010	August 25, 2015	13/643,882	9118168
322	2009P00285 US	May 27, 2009	September 8, 2015	12/472,729	9127842
323	2009P21082WOUS	November 18, 2010	September 8, 2015	13/513,338	9130477
324	2010P06010WOUS	February 15, 2011	September 15, 2015	13/637,654	9133829
325	2012P21910 US	September 6, 2013	September 22, 2015	14/019,682	9138672
326	2011P06188 US01	March 20, 2014	September 29, 2015	14/220,844	9148084
327	2010P05299WOUS	March 3, 2011	October 6, 2015	13/637,670	9149760
328	2013P20414 US	February 25, 2014	October 6, 2015	14/188,958	9151175
329	2010P07569WOUS	December 16, 2010	October 6, 2015	13/638,993	9151698
330	2011P15962 US	September 13, 2012	October 20, 2015	13/613,513	9166509
331	2010P16783WOUS	March 6, 2012	October 20, 2015	14/006,739	9166236
332	2008P19694WOUS	March 31, 2010	October 20, 2015	13/260,783	9162317
333	2011P21644 US01	September 19, 2012	October 20, 2015	13/622,510	9163841
334	2012P26709 US01	May 9, 2013	October 27, 2015	13/891,151	9172175
335	2010P18124WOUS	September 15, 2011	October 27, 2015	13/876,903	9171656
336	2011P19715WOUS	August 15, 2012	November 3, 2015	14/344,664	9178348
337	2008P10356WOUS	April 30, 2009	November 3, 2015	12/996,864	9175606
338	2012P19723WOUS	August 14, 2013	November 3, 2015	14/426,734	9175988
339	2010P00700WOUS	September 29, 2010	November 10, 2015	13/876,631	9183980

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340	2010P00011WOUS	April 14, 2011	November 10, 2015	13/640,774	9181808
341	2010P00262WOUS	November 17, 2010	November 17, 2015	13/521,472	9188138
342	2011P01933WOUS	February 7, 2012	November 24, 2015	13/985,334	9197046
343	2010P08236WOUS	July 8, 2011	November 24, 2015	13/816,026	9197140
344	2009P12164WOUS	June 29, 2010	November 24, 2015	13/386,934	9193923
345	2011P01032WOUS	March 9, 2012	November 24, 2015	14/007,723	9194577
346	2011P17912 US	August 8, 2012	December 1, 2015	13/569,302	9200220
347	2011P22368WOUS	March 7, 2013	December 1, 2015	14/382,916	9199711
348	2011P12305WOUS	August 22, 2012	December 1, 2015	14/237,875	9200935
349	2008P21591WOUS	January 27, 2010	December 1, 2015	13/201,755	9203099
350	2012P20980 US	November 1, 2012	December 1, 2015	13/665,952	9200519
351	2012P26707 US01	October 4, 2013	December 8, 2015	14/046,125	9209549
352	2008P11105WOUS	May 28, 2009	December 8, 2015	12/999,088	9206709
353	2011P21226WOUS	August 22, 2012	December 22, 2015	14/345,418	9218674
354	2010P14461WOUS	October 5, 2011	December 29, 2015	13/878,610	9222373
355	2010P22540WOUS	November 7, 2011	December 29, 2015	13/884,048	9225165
356	2012P21905 US	September 10, 2013	January 5, 2016	14/022,270	9227152
357	2011P03669WOUS	April 11, 2012	January 12, 2016	14/115,911	9234811
358	2012P06889 US	May 4, 2012	January 12, 2016	13/463,892	9234438
359	2010P16797WOUS	September 19, 2011	January 19, 2016	13/876,595	9238969
360	2010P26615WOUS	March 5, 2012	January 19, 2016	14/006,749	9240680
361	2008P15628WOUS	January 5, 2010	January 19, 2016	13/145,353	9238976
362	2011P26992 US01	October 11, 2012	January 26, 2016	13/649,506	9243482
363	2012P10904WOUS	July 5, 2013	January 26, 2016	14/413,729	9246547
364	2011P17447WOUS	September 5, 2012	February 2, 2016	14/348,150	9251981
365	2011P08892WOUS	August 17, 2012	February 9, 2016	14/241,919	9257877
366	2010P11340WOUS	June 11, 2010	February 16, 2016	13/703,425	9263969
367	2011P01100WOUS	April 24, 2012	February 16, 2016	14/115,733	9261386
368	2011P20819 US01	November 18, 2014	February 16, 2016	14/546,309	9260979
369	2010P08113WOUS	May 31, 2011	February 16, 2016	13/704,294	9260977
370	2007P15682WOUS	September 9, 2009	February 23, 2016	13/062,700	9267678
371	2013P02686 US	March 4, 2013	February 23, 2016	13/783,857	9267689
372	2012P17717 US	January 23, 2013	March 1, 2016	13/747,514	9273612
373	2012P22295WOUS	September 18, 2012	March 1, 2016	14/348,605	9273567
374	2011P26627WOUS	November 23, 2011	March 1, 2016	14/360,085	9277665
375	2011P07172WOUS	March 27, 2012	March 1, 2016	14/112,811	9273406
376	2012P09158WOUS	April 24, 2013	March 1, 2016	14/400,590	9273459
377	2010P15447WOUS	September 20, 2011	March 1, 2016	13/825,568	9273695
378	2012P16904 US	October 16, 2012	March 8, 2016	13/652,671	9280620
379	2009P19971WOUS	December 29, 2010	March 15, 2016	13/575,972	9284890
380	2013P14949 US	September 27, 2014	March 15, 2016	14/499,164	9287658

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381	2010P04353WOUS	June 15, 2011	March 15, 2016	13/807,962	9286183
382	2010P15112WOUS	September 22, 2011	March 22, 2016	13/825,035	9291073
383	2009P24093WOUS	November 18, 2010	March 22, 2016	13/510,765	9291342
384	2011P20822 US	March 8, 2013	March 22, 2016	13/789,802	9291065
385	2010P05848WOUS	June 15, 2011	March 22, 2016	13/813,522	9291344
386	2008P08277WOUS	May 27, 2009	March 22, 2016	12/996,843	9291345
387	2009P10718WOUS	August 13, 2009	March 29, 2016	13/388,685	9297531
388	2011P28982 US01	December 3, 2012	March 29, 2016	13/691,947	9297532
389	2011P27350WOUS	November 9, 2012	April 5, 2016	14/363,818	9306385
390	2010P11371WOUS	May 11, 2011	April 5, 2016	13/816,525	9302300
391	2012P07654WOUS	April 10, 2013	April 12, 2016	14/398,462	9309597
392	2010P12723WOUS	September 14, 2011	April 12, 2016	13/818,105	9310312
393	2011P24075WOUS	September 18, 2012	April 12, 2016	14/348,606	9309780
394	2010P26109WOUS	May 10, 2012	April 19, 2016	14/118,294	9318979
395	2017P01995 US	March 14, 2013	April 19, 2016	13/828,281	9314972
396	2010P24819WOUS	December 2, 2010	April 26, 2016	13/579,400	9322255
397	2010P04351WOUS	July 22, 2011	April 26, 2016	13/811,930	9322512
398	2010P07283 US01	August 4, 2010	April 26, 2016	12/850,086	9325036
399	2011P05249WOUS	June 14, 2012	April 26, 2016	14/131,499	9322298
400	2010P09298WOUS	June 8, 2011	May 3, 2016	13/808,113	9327241
401	2010P12067 US	July 20, 2015	May 3, 2016	14/803,388	9329155
402	2011P19601WOUS	January 15, 2013	May 10, 2016	14/379,907	9337765
403	2011P13359WOUS	June 21, 2012	May 10, 2016	14/130,060	9337646
404	2013P08043 US	September 26, 2014	May 17, 2016	14/497,694	9343846
405	2012P03527WOUS	February 1, 2013	May 17, 2016	14/379,439	9341114
406	2011P24830WOUS	October 31, 2011	May 17, 2016	14/355,261	9343879
407	2010P17887WOUS	September 20, 2011	May 17, 2016	13/825,357	9341067
408	2013P15933 US	August 11, 2014	May 17, 2016	14/456,220	9339753
409	2014P04022 US	June 3, 2014	May 17, 2016	14/294,526	9341374
410	2013P11726 US	December 19, 2013	May 24, 2016	14/133,773	9347324
411	2011P29409WOUS	April 16, 2012	May 31, 2016	13/885,095	9355772
412	2017P02102 US	August 5, 2013	May 31, 2016	13/958,971	9352421
413	2011P18719 US	November 14, 2012	June 7, 2016	13/676,337	9362751
414	2009P10601WOUS	June 23, 2010	June 7, 2016	13/378,727	9360209
415	2011P18052WOUS	August 16, 2012	June 14, 2016	14/345,350	9365020
416	2011P22368 US	August 12, 2015	June 14, 2016	14/824,139	9365276
417	2011P13038WOUS	October 17, 2012	June 21, 2016	14/356,444	9373875
418	2013P09894 US	October 2, 2014	June 28, 2016	14/504,652	9377009
419	2012P21667 US	September 5, 2013	June 28, 2016	14/018,688	9377785
420	2010P07094WOUS01	July 13, 2011	July 5, 2016	13/809,417	9382846
421	2017P01975 US01	October 18, 2011	July 12, 2016	14/600,819	9388479
422	2011P21645 US01	September 19, 2012	July 19, 2016	13/622,452	9395082
423	2012P02779WOUS	February 5, 2013	July 19, 2016	14/378,809	9396891
424	2012P22146 US	May 14, 2013	July 26, 2016	13/893,441	9400108
425	2012P18271WOUS	June 13, 2013	August 2, 2016	14/417,322	9403124

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REEL: 056500 FRAME: 0428

426	2011P00580WOUS	June 21, 2012	August 2, 2016	14/130,059	9407088
427	2010P14466WOUS	October 7, 2011	August 2, 2016	13/878,273	9403230
428	2012P16712WOUS	July 9, 2013	August 2, 2016	14/409,306	9406433
429	2011P19660WOUS	August 29, 2012	August 2, 2016	14/241,473	9404390
430	2013P06111 US	July 19, 2013	August 9, 2016	13/945,983	9410484
431	2011P19380WOUS	November 7, 2011	August 9, 2016	14/356,662	9412853
432	2009P05566WOUS	December 3, 2009	August 9, 2016	13/512,991	9409692
433	2010P07426WOUS	July 18, 2011	August 9, 2016	13/812,952	9410551
434	2011P01626WOUS	January 12, 2012	August 9, 2016	13/980,914	9409121
435	2011P15134WOUS	August 3, 2012	August 16, 2016	14/241,273	9416684
436	2010P14318 US	November 2, 2011	August 16, 2016	13/287,308	9416661
437	2010P08233WOUS	July 8, 2011	August 16, 2016	13/812,207	9416669
438	2013P02687 US	March 14, 2013	August 16, 2016	13/803,463	9416969
439	2011P15447WOUS	November 7, 2012	August 23, 2016	14/372,014	9422832
440	2011P01111WOUS	April 27, 2012	August 23, 2016	14/117,068	9422823
441	2010P05299 US	March 3, 2011	August 30, 2016	14/799,898	9429318
442	2013P15271 US	August 1, 2014	September 6, 2016	14/449,508	9434896
443	2013P19447 US	September 19, 2014	September 6, 2016	14/491,041	9434897
444	2012P05986WOUS	March 11, 2013	September 6, 2016	14/385,223	9437359
445	2010P14125WOUS	September 7, 2011	September 13, 2016	13/880,085	9441502
446	2010P10160WOUS	June 14, 2012	September 20, 2016	14/131,477	9447699
447	2011P14721WOUS	July 13, 2012	September 20, 2016	14/233,626	9447756
448	2006P14438WOUS	January 15, 2008	October 4, 2016	12/523,135	9459008
449	2012P28218WOUS	January 7, 2014	October 4, 2016	14/761,640	9460873
450	2004P18304WOUS	February 1, 2006	October 4, 2016	11/883,731	9461325
451	2010P20854WOUS	February 22, 2012	October 11, 2016	14/002,377	9467024
452	2013P17901 US	September 2, 2014	October 11, 2016	14/474,611	9464248
453	2014P04826 US	August 11, 2014	October 11, 2016	14/456,196	9464247
454	2010P13441WOUS	May 11, 2011	October 25, 2016	13/816,794	9476311
455	2011P21353WOUS	September 5, 2012	October 25, 2016	14/348,739	9478974
456	2011P28554WOUS	December 18, 2012	November 1, 2016	14/371,186	9484161
457	2007P16818WOUS	November 14, 2008	November 1, 2016	12/743,881	9482427
458	2011P00945WOUS	March 23, 2012	November 1, 2016	14/009,590	9482112
459	2010P14447WOUS	November 30, 2011	November 8, 2016	13/885,710	9488105
460	2011P18670WOUS	September 13, 2012	November 8, 2016	14/343,854	9486886
461	2011P09723WOUS	May 21, 2012	November 15, 2016	14/119,003	9496786
462	2011P07310WOUS	July 23, 2012	November 15, 2016	14/233,514	9494046
463	2009P05566 US	December 3, 2009	November 22, 2016	15/190,676	9499324
464	2008P23952WOUS	March 23, 2010	November 22, 2016	13/258,100	9500361
465	2012P03221WOUS	March 19, 2013	November 22, 2016	14/389,007	9502742

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PATENT**REEL: 056500 FRAME: 0429**

			2016		
466	2011P20087 US	November 28, 2012	November 29, 2016	13/686,975	9506373
467	2010P14031WOUS	September 30, 2011	November 29, 2016	13/877,729	9506376
468	2011P20591WOUS	September 10, 2012	November 29, 2016	14/345,151	9504951
469	2010P08257WOUS	July 8, 2011	November 29, 2016	13/812,153	9506374
470	2011P26434WOUS	November 29, 2012	December 6, 2016	14/368,744	9512723
471	2011P21058WOUS	November 22, 2011	December 6, 2016	13/988,936	9515483
472	2012P01245WOUS	January 30, 2013	December 13, 2016	14/390,416	9518612
473	2012P26719WOUS	July 30, 2013	December 13, 2016	14/433,647	9520706
474	2010P23839WOUS	November 15, 2011	December 20, 2016	13/991,284	9524837
475	2009P05566 US01	December 3, 2009	December 27, 2016	15/190,783	9527646
476	2011P05590WOUS	July 11, 2012	December 27, 2016	14/234,495	9527683
477	2010P13195WOUS	November 8, 2011	December 27, 2016	13/883,099	9527037
478	2012P01690WOUS	February 27, 2013	December 27, 2016	14/381,516	9527690
479	2012P00258WOUS	March 12, 2013	January 3, 2017	14/382,315	9534508
480	2011P13403WOUS	September 26, 2012	January 10, 2017	14/351,985	9543800
481	2011P05248WOUS	May 24, 2012	January 10, 2017	14/122,808	9541458
482	2011P26087WOUS	November 15, 2012	January 17, 2017	14/362,175	9548175
483	2010P26068WOUS	February 8, 2012	January 31, 2017	13/984,099	9557236
484	2013P01085WOUS	January 14, 2014	January 31, 2017	14/762,989	9557349
485	2010P24045WOUS	January 26, 2012	February 14, 2017	13/980,338	9568014
486	2008P01501 US	May 26, 2009	February 14, 2017	12/471,710	9567664
487	2011P13852WOUS	April 11, 2012	February 14, 2017	14/232,280	9568898
488	2011P16958WOUS	September 3, 2012	February 14, 2017	14/239,141	9570782
489	2011P04858WOUS	April 27, 2012	February 14, 2017	14/117,746	9567914
490	2013P10085WOUS	May 20, 2014	February 21, 2017	14/892,735	9576724
491	2010P00008WOUS	January 25, 2011	February 21, 2017	13/575,075	9574572
492	2013P10726WOUS	July 11, 2013	February 21, 2017	14/784,445	9576714
493	2013P13908WOUS	July 29, 2014	February 21, 2017	14/909,585	9574766
494	2013P17459WOUS	October 30, 2014	February 21, 2017	14/904,713	9576752
495	2010P01669WOUS	January 31, 2011	February 28, 2017	13/575,481	9580160
496	2013P06148WOUS	April 30, 2014	February 28, 2017	14/767,333	9583282
497	2012P26709WOUS	April 30, 2013	February 28, 2017	14/401,289	9583868
498	2012P19674WOUS	September 10, 2013	February 28, 2017	14/429,073	9583804
499	2013P21464 US	December 24, 2014	March 7, 2017	14/582,604	9590452
500	2012P26718WOUS	July 29, 2013	March 7, 2017	14/421,677	9590350
501	2010P08116WOUS	June 15, 2011	March 14, 2017	13/807,023	9593581
502	2008P14226WOUS	October 29, 2009	March 14, 2017	13/128,657	9593844
503	2010P00931WOUS	August 19, 2011	March 14, 2017	13/825,140	9593583
504	2013P05248 US	October 15, 2013	March 14, 2017	14/053,628	9593585
505	2012P00445WOUS	November 29, 2012	March 14, 2017	14/385,411	9595724
506	2010P25668WOUS	March 20, 2012	March 21, 2017	14/009,384	9601971

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507	2012P18041WOUS	July 23, 2013	March 21, 2017	14/415,065	9601254
508	2014P02440 US	February 3, 2015	April 7, 2017	14/612,371	9695371
509	2011P11323WOUS	October 11, 2013	April 11, 2017	14/432,648	9620832
510	2013P14401 US	October 20, 2014	April 11, 2017	14/518,296	9616543
511	2012P26703WOUS	May 15, 2014	April 18, 2017	14/891,697	9627798
512	2010P24061WOUS	January 19, 2012	April 25, 2017	13/982,785	9631623
513	2011P11108WOUS	August 1, 2012	April 25, 2017	14/237,873	9631624
514	2012P14553WOUS	June 19, 2013	April 25, 2017	14/411,757	9633806
515	2011P11109WOUS	August 1, 2012	April 25, 2017	14/237,872	9631518
516	2012P10614WOUS	July 18, 2013	May 2, 2017	14/423,347	9638372
517	2011P02608WOUS	January 5, 2012	May 2, 2017	13/983,126	9638106
518	2012P24067 US01	August 30, 2013	May 2, 2017	14/015,084	9639637
519	2013P01510WOUS	January 24, 2013	May 9, 2017	14/763,247	9647529
520	2011P19929WOUS	November 7, 2012	May 9, 2017	14/370,563	9645022
521	2011P21042WOUS	April 2, 2013	May 9, 2017	14/394,095	9643122
522	2012P17905WOUS	August 14, 2013	May 16, 2017	14/422,723	9651486
523	2009P16417WOUS	September 29, 2010	May 16, 2017	13/499,144	9650120
524	2013P11412WOUS	October 25, 2013	May 16, 2017	15/031,879	9653243
525	2013P21529WOUS	October 20, 2014	May 23, 2017	15/030,059	9660428
526	2011P17836WOUS	September 3, 2012	May 23, 2017	14/345,236	9660257
527	2011P17822WOUS	September 4, 2012	May 23, 2017	14/343,852	9660256
528	2013P08046 US	September 26, 2014	May 23, 2017	14/498,953	9659684
529	2012P14036WOUS	July 25, 2013	May 23, 2017	14/419,263	9657842
530	2013P11017WOUS	September 24, 2014	May 23, 2017	15/033,218	9659729
531	2012P26878WOUS	November 19, 2012	May 30, 2017	14/443,133	9667162
532	2011P03466WOUS	May 30, 2012	May 30, 2017	14/125,266	9664051
533	2013P09277WOUS	May 2, 2014	May 30, 2017	14/894,715	9666392
534	2013P13917WOUS	July 25, 2014	June 6, 2017	14/909,610	9671105
535	2010P24407WOUS	April 19, 2012	June 6, 2017	14/112,997	9673724
536	2011P12240WOUS	July 20, 2012	June 6, 2017	14/234,569	9670782
537	2008P25534WOUS	July 15, 2009	June 6, 2017	13/056,337	9670428
538	2010P01842WOUS	April 7, 2011	June 20, 2017	13/695,656	9683733
539	2013P13968WOUS	July 15, 2013	July 11, 2017	14/904,984	9705406
540	2008P12504 US01	June 29, 2009	July 11, 2017	13/907,110	9705168
541	2007P24460WOUS	October 31, 2008	July 11, 2017	12/745,909	9702561
542	2012P20545WOUS	September 17, 2013	July 11, 2017	14/429,737	9702560
543	2009P08823WOUS	April 23, 2010	July 11, 2017	13/322,658	9701506
544	2011P14724WOUS	August 14, 2012	July 18, 2017	14/239,138	9708919
545	2011P27392WOUS	March 14, 2013	July 18, 2017	14/387,497	9711264
546	2013P13149WOUS	August 19, 2014	July 25, 2017	15/025,352	9714957
547	2013P14696WOUS	August 25, 2014	July 25, 2017	14/900,629	9716339
548	2014P10621 US	June 12, 2015	July 25, 2017	14/737,684	9714823
549	2011P15452WOUS	April 2, 2013	August 1, 2017	14/394,083	9719360
550	2012P28178WOUS	March 11, 2014	August 1, 2017	14/780,457	9718934
551	2012P25111WOUS	December 16, 2013	August 1, 2017	14/652,108	9719371

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PATENT**REEL: 056500 FRAME: 0431**

552	2012P27087WOUS	December 3, 2013	August 1, 2017	14/652,194	9719676
553	2012P19748WOUS	September 12, 2013	August 8, 2017	14/430,351	9726441
554	2012P12382WOUS	May 22, 2013	August 8, 2017	14/411,012	9728774
555	2012P23124WOUS	July 25, 2013	August 15, 2017	14/431,834	9731351
556	2015P11292 US	July 5, 2016	August 22, 2017	15/201,685	9742129
557	2013P20860 US01	August 12, 2014	August 22, 2017	14/457,504	9739160
558	2012P27630WOUS	January 7, 2014	August 22, 2017	14/762,551	9741514
559	2012P26713 US01	May 30, 2014	August 22, 2017	15/080,615	9742078
560	2012P26715 US	August 29, 2013	August 22, 2017	14/013,531	9742104
561	2009P13311WOUS	November 18, 2010	August 29, 2017	13/510,052	9746085
562	2012P26713WOUS	May 30, 2014	August 29, 2017	14/890,945	9748669
563	2012P24395WOUS	October 11, 2012	August 29, 2017	14/434,861	9748848
564	2012P26307WOUS	January 7, 2014	August 29, 2017	14/761,703	9748059
565	2013P14059WOUS	October 18, 2013	September 5, 2017	15/030,122	9755745
566	2013P19146WOUS	September 24, 2014	September 5, 2017	15/023,816	9753230
567	2011P03518WOUS	April 11, 2012	September 12, 2017	14/113,954	9759092
568	2011P28839WOUS	January 11, 2013	September 19, 2017	14/373,315	9768480
569	2012P16704WOUS	July 9, 2013	September 19, 2017	14/409,255	9765840
570	2011P05966WOUS	July 12, 2012	September 19, 2017	14/232,928	9766118
571	2014P00203 US	March 30, 2015	September 26, 2017	14/672,649	9772111
572	2011P12717WOUS	August 14, 2012	September 26, 2017	14/241,485	9771803
573	2012P00369WOUS	June 19, 2012	September 26, 2017	14/409,221	9774187
574	2015P26404 US	January 23, 2017	October 3, 2017	15/412,318	9780482
575	2013P07137WOUS	May 16, 2014	October 3, 2017	14/895,564	9780373
576	2013P14949 US01	February 25, 2016	October 10, 2017	15/053,907	9787021
577	2014P07746 US	May 6, 2015	October 10, 2017	14/705,411	9787207
578	2013P06440WOUS	September 8, 2014	October 10, 2017	15/025,309	9787173
579	2014P12741 US	June 25, 2015	October 17, 2017	14/749,682	9791426
580	2012P16254WOUS	June 20, 2013	October 17, 2017	14/422,016	9793701
581	2017P01590 US	February 5, 2009	October 17, 2017	12/365,914	9789540
582	2014P14965 US	October 2, 2015	October 24, 2017	14/873,245	9796062
583	2011P17033WOUS	August 8, 2012	October 31, 2017	14/236,555	9806247
584	2011P07432WOUS	April 3, 2012	October 31, 2017	14/113,918	9806327
585	2012P14515WOUS	May 31, 2013	October 31, 2017	14/408,763	9805848
586	2013P21566WOUS	December 2, 2014	October 31, 2017	15/100,411	9806456
587	2012P20309WOUS	October 1, 2013	October 31, 2017	14/438,320	9804110
588	2013P03697WOUS	February 22, 2013	October 31, 2017	14/769,547	9806532
589	2007P16821WOUS	February 10, 2009	November 7, 2017	12/867,057	9810101
590	2011P23728WOUS	December 4, 2012	November 7, 2017	14/374,901	9810433
591	2014P11092WOUS	June 13, 2014	November 14, 2017	15/318,061	9819286

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			2017		
592	2014P00841WOUS	March 25, 2015	November 14, 2017	15/108,799	9818561
593	2012P00714WOUS	January 14, 2013	November 14, 2017	14/372,054	9818509
594	2011P16961WOUS	September 3, 2012	November 21, 2017	14/239,142	9825282
595	2010P14128WOUS	September 30, 2011	November 21, 2017	13/879,056	9822710
596	2010P23916WOUS	November 16, 2011	November 28, 2017	13/989,190	9827516
597	2014P05925 US	March 25, 2015	November 28, 2017	14/668,140	9832254
598	2013P23631WOUS	December 12, 2014	November 28, 2017	15/104,634	9831032
599	2012P28849WOUS	December 19, 2012	November 28, 2017	14/653,983	9831657
600	2011P11757WOUS	December 12, 2012	November 28, 2017	14/651,397	9831025
601	2011P22813WOUS	December 28, 2012	November 28, 2017	14/370,651	9829468
602	2012P22119WOUS	November 11, 2013	December 5, 2017	14/650,304	9835335
603	2012P02524WOUS	April 26, 2013	December 5, 2017	14/404,697	9837224
604	2015P10037 US	June 27, 2016	December 5, 2017	15/193,166	9837184
605	2013P19884WOUS	September 24, 2014	December 12, 2017	15/024,041	9843129
606	2012P26561WOUS	December 30, 2013	December 12, 2017	14/760,476	9843246
607	2014P10155 US	August 15, 2014	December 12, 2017	14/460,878	9840924
608	2012P23753WOUS	October 10, 2013	December 19, 2017	14/441,345	9845540
609	2012P13346WOUS	June 11, 2013	December 19, 2017	14/415,412	9847700
610	2011P10069WOUS	August 16, 2012	December 26, 2017	14/345,361	9853302
611	2013P06326WOUS	July 8, 2013	December 26, 2017	14/903,510	9853537
612	2013P23922WOUS	March 25, 2015	December 26, 2017	15/125,475	9851106
613	2009P24089WOUS	April 16, 2010	December 26, 2017	13/263,888	9851097
614	2013P19182 US	December 26, 2013	December 26, 2017	14/140,606	9850823
615	2013P04140WOUS	February 28, 2013	December 26, 2017	14/770,854	9853562
616	2009P18316 US01	May 29, 2015	January 2, 2018	14/725,809	9856545
617	2011P06726WOUS	June 13, 2012	January 2, 2018	14/128,276	9859766
618	2012P16209WOUS	June 25, 2013	January 2, 2018	14/423,184	9861009
619	2013P15826WOUS	August 28, 2014	January 2, 2018	15/021,033	9859701
620	2013P24729 US	June 25, 2014	January 2, 2018	14/314,159	9857242
621	2012P01852WOUS	December 12, 2012	January 2, 2018	14/376,428	9856738
622	2011P22766WOUS	February 27, 2013	January 9, 2018	14/377,888	9863271
623	2013P10485WOUS	May 8, 2014	January 16, 2018	14/913,083	9868496
624	2013P21478WOUS	November 29, 2013	January 23, 2018	15/100,389	9875861
625	2014P15782WOUS	August 31, 2015	January 23, 2018	15/509,332	9876263
626	2011P16285WOUS	September 13, 2012	January 23, 2018	14/352,276	9874146
627	2015P16640 US	August 30, 2016	January 23, 2018	15/251,542	9876308
628	2008P21617 US01	June 12, 2015	January 23, 2018	14/737,945	9873936

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629	2014P07223WOUS	August 26, 2014	January 30, 2018	15/500,762	9880051
630	2012P14507WOUS	June 19, 2012	January 30, 2018	14/408,766	9882371
631	2014P09105WOUS	April 27, 2015	January 30, 2018	15/314,403	9882367
632	2010P01843WOUS	April 5, 2011	January 30, 2018	13/641,988	9879853
633	2014P06351WOUS	May 12, 2014	February 6, 2018	15/310,968	9887026
634	2012P23739WOUS	January 24, 2014	February 6, 2018	14/763,806	9884950
635	2011P08199WOUS	December 21, 2012	February 6, 2018	14/369,687	9885480
636	2011P11445WOUS	June 4, 2012	February 13, 2018	14/126,134	9893520
637	2012P16478WOUS	September 6, 2013	February 13, 2018	14/430,610	9893506
638	2012P13247WOUS	August 20, 2013	February 13, 2018	14/423,544	9893513
639	2008P18196WOUS	September 15, 2009	February 13, 2018	13/061,962	9890655
640	2013P13329WOUS	October 18, 2013	February 13, 2018	14/898,140	9890948
641	2013P22969WOUS	October 27, 2014	February 20, 2018	15/037,058	9899155
642	2014P23449WOUS	May 8, 2015	February 20, 2018	15/311,908	9899816
643	2012P25472WOUS	May 6, 2014	February 20, 2018	14/895,043	9897002
644	2011P11047WOUS	October 2, 2012	February 20, 2018	14/352,106	9896942
645	2013P13122WOUS	June 25, 2014	February 27, 2018	14/903,959	9903514
646	2012P29000WOUS	February 3, 2014	February 27, 2018	14/763,756	9903213
647	2013P00281WOUS	January 17, 2014	March 6, 2018	14/767,304	9909493
648	2013P07819WOUS	August 25, 2014	March 6, 2018	14/911,120	9909938
649	2012P21575WOUS	January 14, 2014	March 6, 2018	14/763,727	9909439
650	2012P25435WOUS	November 5, 2013	March 6, 2018	14/647,223	9909509
651	2012P24448WOUS	February 20, 2014	March 13, 2018	14/777,319	9915166
652	2013P26705WOUS	August 21, 2015	March 13, 2018	15/505,185	9915150
653	2012P27689WOUS	December 5, 2013	March 13, 2018	14/652,107	9914083
654	2011P23552WOUS	July 15, 2013	March 20, 2018	14/415,589	9919404
655	2015P01006WOUS	February 18, 2015	March 20, 2018	15/118,510	9920646
656	2012P16287WOUS	October 1, 2013	March 20, 2018	14/439,379	9920657
657	2014P08252 US	July 20, 2015	March 27, 2018	14/803,174	9927521
658	2013P03753WOUS	February 24, 2014	March 27, 2018	14/779,933	9929452
659	2012P13135WOUS	May 21, 2013	April 3, 2018	14/404,625	9932898
660	2013P06443WOUS	July 8, 2013	April 3, 2018	14/903,514	9936610
661	2014P20410WOUS	November 20, 2015	April 3, 2018	15/532,837	9935511
662	2011P14031WOUS	July 1, 2015	April 10, 2018	15/326,886	9941043
663	2012P23031 US	September 26, 2013	April 10, 2018	14/037,712	9939152
664	2013P10579 US01	December 26, 2013	April 10, 2018	14/140,599	9939156
665	2013P22701WOUS	January 12, 2015	April 10, 2018	15/113,845	9938860
666	2015P19386 US	January 20, 2017	April 10, 2018	15/411,474	9941046
667	2013P00020WOUS	October 23, 2013	April 10, 2018	14/758,236	9938847
668	2015P23105 US	April 4, 2017	April 17, 2018	15/478,391	9947442
669	2013P07971WOUS	May 16, 2014	April 17, 2018	14/895,086	9945733
670	2013P10580 US01	May 1, 2014	April 24, 2018	14/267,134	9951621
671	2013P21479WOUS	December 20, 2013	May 1, 2018	15/105,066	9960603
672	2014P08730WOUS	August 14, 2014	May 1, 2018	15/329,639	9958152
673	2015P06565 US	May 20, 2016	May 1, 2018	15/160,135	9960541

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674	2012P13974WOUS	September 16, 2013	May 8, 2018	14/430,680	9962664
675	2012P21743 US	November 7, 2013	May 15, 2018	14/073,942	9969055
676	2012P04201 US01	January 31, 2013	May 15, 2018	13/754,936	9970360
677	2013P06332WOUS	May 26, 2014	May 22, 2018	14/895,071	9976440
678	2013P14958WOUS	September 10, 2014	May 29, 2018	15/023,029	9982569
679	2013P18068WOUS	September 25, 2013	May 29, 2018	15/024,488	9982571
680	2011P21558WOUS	September 3, 2012	May 29, 2018	14/241,801	9984796
681	2013P09487WOUS	January 16, 2014	June 5, 2018	14/898,227	9989500
682	2013P10781WOUS	June 3, 2014	June 5, 2018	14/898,193	9991031
683	2013P12597WOUS	October 6, 2014	June 5, 2018	15/027,500	9991564
684	2013P20832WOUS	November 19, 2013	June 12, 2018	15/036,427	9995360
685	2011P15133WOUS	November 7, 2012	June 12, 2018	14/373,651	9995178
686	2015P22641 US	January 30, 2017	June 19, 2018	15/419,441	10001615
687	2015P24384 US	February 21, 2017	June 26, 2018	15/437,986	10010004
688	2013P10028WOUS	February 28, 2014	June 26, 2018	14/777,993	10006132
689	2014P08410WOUS	May 12, 2014	July 3, 2018	15/307,188	10014676
690	2011P16288WOUS	November 22, 2012	July 3, 2018	14/373,861	10012093
691	2011P26140WOUS	November 16, 2012	July 3, 2018	14/358,710	10012114
692	2015P00093WOUS	February 16, 2016	July 3, 2018	15/535,886	10014670
693	2014P03622WOUS	May 8, 2015	July 10, 2018	15/311,896	10020612
694	2006P22081WOUS	January 24, 2008	July 17, 2018	12/524,775	10024540
695	2016P21365 US	January 31, 2017	July 17, 2018	15/420,323	10027068
696	2013P25492WOUS	March 19, 2014	July 24, 2018	15/126,348	10032556
697	2013P16799WOUS	September 25, 2013	July 24, 2018	15/024,992	10030546
698	2013P10099WOUS	May 20, 2014	July 24, 2018	14/888,813	10032549
699	2013P06445WOUS	August 15, 2013	July 24, 2018	14/911,530	10033211
700	2015P11983 US	November 7, 2016	July 24, 2018	15/344,806	10033134
701	2012P14387WOUS	September 11, 2013	July 24, 2018	14/431,884	10032589
702	2013P16725WOUS	August 19, 2013	July 24, 2018	14/913,182	10033293
703	2017P01995 US01	March 14, 2013	July 24, 2018	15/064,635	10029333
704	2014P08849WOUS	August 20, 2015	July 31, 2018	15/506,879	10038312
705	2014P15133WOUS	October 1, 2015	July 31, 2018	15/514,763	10036256
706	2013P09033WOUS	September 8, 2014	July 31, 2018	14/916,378	10036275
707	2015P14951 US	July 21, 2016	August 7, 2018	15/216,659	10040014
708	2016P06937 US	April 13, 2017	August 7, 2018	15/486,483	10043603
709	2012P28980WOUS	December 19, 2013	August 14, 2018	14/759,332	10050312
710	2013P00434WOUS	February 12, 2014	August 21, 2018	14/762,949	10054010
711	2014P02246WOUS	February 12, 2015	August 21, 2018	15/120,029	10054012
712	2015P10045 US	November 10, 2016	August 21, 2018	15/348,548	10056886
713	2015P13021 US	December 8, 2016	August 28, 2018	15/372,507	10062502
714	2013P05378WOUS	December 10, 2013	September 4, 2018	15/038,654	10068698
715	2012P25132WOUS	January 22, 2014	September 4, 2018	14/763,765	10067035
716	2014P25418WOUS	November 24, 2015	September 11, 2018	15/527,516	10072894
717	2014P02078WOUS	January 21, 2015	September 11, 2018	15/119,045	10072895

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718	2013P27398WOUS	February 12, 2015	September 11, 2018	15/120,144	10072775
719	2012P11414WOUS	August 2, 2013	September 11, 2018	14/420,262	10071443
720	2013P06302WOUS	June 16, 2014	September 11, 2018	14/902,639	10071526
721	2014P25492WOUS	December 16, 2015	September 18, 2018	15/546,473	10077673
722	2013P12671WOUS	July 1, 2014	September 18, 2018	14/904,500	10077662
723	2012P28412WOUS	December 19, 2013	September 25, 2018	14/759,310	10084160
724	2013P02278WOUS	May 28, 2013	September 25, 2018	14/890,383	10083789
725	2012P29004WOUS	June 4, 2013	September 25, 2018	14/653,082	10082086
726	2013P07700WOUS	July 3, 2014	October 2, 2018	14/905,429	10087773
727	2014P22489WOUS	September 29, 2015	October 2, 2018	15/523,785	10090098
728	2013P23126WOUS	October 28, 2014	October 2, 2018	15/102,568	10088830
729	2012P27120WOUS	February 7, 2014	October 2, 2018	14/773,345	10088163
730	2012P08450WOUS	January 23, 2014	October 2, 2018	14/763,790	10087198
731	2012P11939WOUS	May 23, 2013	October 9, 2018	14/410,977	10096874
732	2016P14940 US01	August 26, 2016	October 9, 2018	15/248,386	10095218
733	2013P07048WOUS	July 2, 2014	October 9, 2018	14/904,185	10096443
734	2014P09474WOUS	July 15, 2015	October 16, 2018	15/510,349	10103523
735	2014P07526WOUS	October 24, 2014	October 16, 2018	15/516,255	10100681
736	2013P27238WOUS	January 5, 2015	October 16, 2018	15/115,917	10100651
737	2014P13302WOUS	July 1, 2014	October 16, 2018	15/323,340	10103085
738	2014P05580WOUS	April 29, 2015	October 16, 2018	15/312,930	10100665
739	2014P23144WOUS	October 29, 2015	October 16, 2018	15/518,323	10101021
740	2013P17976WOUS	August 21, 2014	October 16, 2018	15/021,530	10100680
741	2014P04261WOUS	March 23, 2015	October 23, 2018	15/301,193	10110005
742	2013P18937WOUS	December 17, 2013	October 23, 2018	15/104,305	10109444
743	2013P10841WOUS	June 18, 2013	October 23, 2018	14/897,751	10107742
744	2013P06168WOUS	June 26, 2014	October 23, 2018	14/904,542	10107103
745	2014P25313WOUS	November 19, 2015	October 23, 2018	15/533,795	10109991
746	2013P09032WOUS	March 5, 2014	November 6, 2018	14/898,132	10122051
747	2013P26466WOUS	March 20, 2015	November 13, 2018	15/126,804	10125993
748	2014P19269WOUS	November 6, 2015	November 13, 2018	15/524,341	10125685
749	2013P12398WOUS	August 14, 2014	November 13, 2018	15/328,525	10125991
750	2014P21024WOUS	November 11, 2015	November 13, 2018	15/524,330	10125624
751	2015P19320 US	November 9, 2016	November 13, 2018	15/346,759	10124419
752	2013P13280 US	October 15, 2014	November 13, 2018	14/514,871	10125626

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PATENT**REEL: 056500 FRAME: 0436**

753	2013P18908WOUS	October 7, 2013	November 13, 2018	15/027,786	10128657
754	2013P13605WOUS	September 4, 2014	November 20, 2018	15/025,589	10132173
755	2011P19526WOUS	August 14, 2012	November 20, 2018	14/343,656	10132560
756	2013P12397WOUS	August 14, 2014	November 20, 2018	15/328,228	10132240
757	2013P18094WOUS	July 7, 2014	November 27, 2018	14/904,989	10138813
758	2013P05817WOUS	June 3, 2014	November 27, 2018	14/898,131	10138900
759	2012P13359WOUS	May 15, 2013	November 27, 2018	14/407,704	10141732
760	2012P22885WOUS	June 25, 2013	December 4, 2018	14/430,982	10145612
761	2014P00108WOUS	May 7, 2015	December 11, 2018	15/311,901	10153580
762	2013P08250 US	March 18, 2015	December 11, 2018	14/660,984	10151213
763	2014P23490WOUS	December 3, 2015	December 18, 2018	15/541,833	10156612
764	2014P20100WOUS	January 30, 2015	December 25, 2018	15/544,780	10161443
765	2015P22119WOUS	November 1, 2016	December 25, 2018	15/780,970	10163546
766	2013P18488WOUS	August 26, 2014	January 1, 2019	14/916,280	10167782
767	2013P26200WOUS	April 16, 2015	January 1, 2019	15/306,545	10167742
768	2012P10898WOUS	July 26, 2013	January 1, 2019	14/417,156	10166625
769	2013P10195WOUS	May 7, 2014	January 1, 2019	14/898,165	10168301
770	2014P25211WOUS	February 22, 2016	January 8, 2019	15/561,254	10177682
771	2014P14336WOUS	November 5, 2015	January 15, 2019	15/524,352	10180068
772	2015P22086 US	January 17, 2017	January 15, 2019	15/407,442	10181802
773	2011P00002WOUS	March 8, 2012	January 15, 2019	14/009,905	10180081
774	2013P22046WOUS	December 3, 2014	January 22, 2019	15/100,738	10184351
775	2014P02592WOUS	February 6, 2014	January 29, 2019	15/116,901	10193348
776	2015P05925WOUS	December 9, 2015	January 29, 2019	15/548,481	10190435
777	2013P26542 US	March 13, 2015	January 29, 2019	14/657,866	10190419
778	2015P05924WOUS	December 9, 2015	January 29, 2019	15/548,440	10189082
779	2014P11414WOUS	July 1, 2014	February 5, 2019	15/323,328	10199922
780	2012P02781WOUS	February 5, 2013	February 5, 2019	14/378,789	10199189
781	2012P26713 US02	May 30, 2014	February 5, 2019	15/080,616	10199749
782	2014P13545WOUS	November 26, 2015	February 5, 2019	15/531,455	10195659
783	2012P16216WOUS	January 23, 2014	February 5, 2019	14/767,484	10197281
784	2016P00188 US	April 8, 2016	February 5, 2019	15/093,800	10196916
785	2015P07149WOUS	August 28, 2015	February 12, 2019	15/755,799	10204738
786	2014P05325WOUS	January 19, 2015	February 12, 2019	15/120,018	10202861
787	2015P22650 US	January 30, 2017	February 19, 2019	15/419,541	10209460
788	2014P03663WOUS	January 28, 2015	February 19, 2019	15/120,009	10208761
789	2012P12152WOUS	June 3, 2013	February 19, 2019	14/411,975	10211453
790	2015P12268WOUS	June 27, 2016	February 19, 2019	15/748,078	10211617
791	2013P10661WOUS	June 25, 2014	February 26, 2019	14/898,135	10215041
792	2013P06981WOUS	June 12, 2014	February 26, 2019	14/898,136	10213728

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PATENT**REEL: 056500 FRAME: 0437**

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795	2014P18114WOUS	September 17, 2014	March 5, 2019	15/509,135	10224699
796	2013P08046 US01	September 26, 2014	March 5, 2019	15/489,307	10224129
797	2016P17225 US	September 7, 2017	March 5, 2019	15/697,526	10224703
798	2015P01174WOUS	February 18, 2015	March 5, 2019	15/118,996	10221716
799	2013P19473WOUS	August 12, 2014	March 12, 2019	14/915,229	10227873
800	2013P06165WOUS	June 10, 2014	March 19, 2019	14/900,225	10233767
801	2015P08985WOUS	May 20, 2016	March 19, 2019	15/578,901	10234491
802	2014P13279WOUS	July 16, 2014	March 19, 2019	15/320,819	10236622
803	2013P06168 US	June 26, 2014	March 19, 2019	15/134,109	10233757
804	2013P19400WOUS	January 6, 2015	March 26, 2019	15/113,429	10240795
805	2013P24973WOUS	December 20, 2013	March 26, 2019	15/105,746	10243357
806	2011P07309WOUS	April 24, 2012	March 26, 2019	14/118,178	10241521
807	2014P06429WOUS	May 12, 2015	March 26, 2019	15/316,262	10241135
808	2012P14826WOUS	July 25, 2013	March 26, 2019	14/423,715	10241006
809	2014P25098WOUS	January 14, 2016	March 26, 2019	15/543,761	10242832
810	2014P20560 US	October 13, 2015	April 2, 2019	14/881,712	10246947
811	2016P15274 US	August 23, 2017	April 2, 2019	15/684,068	10246826
812	2014P02986WOUS	May 22, 2014	April 2, 2019	15/310,474	10248148
813	2013P22153WOUS	January 9, 2015	April 9, 2019	15/113,848	10254752
814	2015P04302WOUS	June 3, 2016	April 9, 2019	15/578,905	10253697
815	2014P15098WOUS	August 24, 2015	April 9, 2019	15/505,179	10253650
816	2014P21930WOUS	January 5, 2016	April 9, 2019	15/538,848	10253647
817	2014P15254WOUS	October 5, 2015	April 9, 2019	15/517,321	10253655
818	2013P08247 US	March 20, 2015	April 23, 2019	14/663,482	10267512
819	2016P21890 US	January 31, 2017	April 23, 2019	15/420,325	10269483
820	2016P22314 US	April 27, 2018	April 30, 2019	15/964,504	10277020
821	2016P15578 US	August 9, 2017	April 30, 2019	15/672,842	10276317
822	2014P05681WOUS	November 5, 2015	April 30, 2019	15/524,347	10273121
823	2013P12968WOUS	August 21, 2014	May 7, 2019	15/021,427	10281068
824	2011P20034WOUS	March 18, 2013	May 7, 2019	14/384,847	10284042
825	2013P27119WOUS	February 23, 2015	May 14, 2019	15/117,906	10287885
826	2010P14128 US	September 30, 2011	May 14, 2019	15/666,607	10287993
827	2013P21378WOUS	December 3, 2014	May 14, 2019	15/100,874	10287985
828	2014P09456WOUS	July 15, 2015	May 14, 2019	15/513,241	10288647
829	2014P16417WOUS	August 25, 2015	May 14, 2019	15/507,103	10287924
830	2011P15041WOUS	July 5, 2012	May 14, 2019	14/232,661	10287898
831	2014P05982WOUS	August 27, 2015	May 14, 2019	15/509,625	10287892
832	2013P02287WOUS	December 10, 2013	May 21, 2019	15/038,843	10297383
833	2014P16341WOUS	July 29, 2015	May 21, 2019	15/500,375	10297851
834	2013P14822WOUS	July 29, 2014	May 21, 2019	14/911,752	10294796
835	2014P14935WOUS	August 12, 2015	May 21, 2019	15/503,543	10294818
836	2015P02389WOUS	February 23, 2016	May 21, 2019	15/556,741	10295460
837	2013P14663WOUS	June 15, 2015	May 21, 2019	15/319,249	10294572


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838	2015P11560WOUS	June 30, 2016	May 28, 2019	15/748,801	10301975
839	2013P27441WOUS	December 30, 2014	May 28, 2019	15/027,261	10304609
840	2016P00671 US	March 3, 2017	May 28, 2019	15/448,711	10302527
841	2015P11404WOUS	June 21, 2016	May 28, 2019	15/739,299	10301944
842	2014P12828WOUS	October 5, 2015	May 28, 2019	15/519,168	10305288
843	2012P28197WOUS	June 6, 2014	June 4, 2019	14/896,377	10309261
844	2015P18455WOUS	August 8, 2016	June 4, 2019	15/762,704	10309319
845	2014P07987WOUS	July 9, 2015	June 4, 2019	15/324,857	10309234
846	2013P16429WOUS	January 14, 2015	June 4, 2019	15/111,477	10309320
847	2013P26193WOUS	March 25, 2015	June 11, 2019	15/303,048	10316894
848	2014P23667WOUS	January 16, 2015	June 11, 2019	15/544,135	10317433
849	2014P06210WOUS	April 4, 2014	June 11, 2019	15/301,804	10320308
850	2015P03257WOUS	January 25, 2016	June 11, 2019	15/549,555	10316700
851	2014P04236WOUS	June 24, 2015	June 11, 2019	15/320,657	10320316
852	2014P23115WOUS	October 23, 2015	June 18, 2019	15/539,844	10323523
853	2015P00236WOUS	February 18, 2015	June 18, 2019	15/121,196	10323533
854	2013P20443WOUS	November 11, 2014	June 18, 2019	15/100,889	10323531
855	2015P17780WOUS	September 19, 2016	June 25, 2019	15/768,568	10333310
856	2013P11379WOUS	June 27, 2014	June 25, 2019	14/898,138	10330318
857	2013P26973WOUS	April 25, 2014	June 25, 2019	15/306,138	10333386
858	2015P00863WOUS	April 23, 2015	June 25, 2019	15/568,609	10333309
859	2016P01331WOUS	February 8, 2016	June 25, 2019	16/073,203	10333389
860	2014P10473WOUS	July 9, 2015	June 25, 2019	15/500,172	10332705
861	2014P15547WOUS	October 12, 2015	July 2, 2019	15/519,733	10337338
862	2014P01198WOUS	March 3, 2015	July 2, 2019	15/123,748	10337356
863	2015P13604WOUS	July 27, 2016	July 2, 2019	15/749,618	10336674
864	2014P07804WOUS	May 8, 2015	July 2, 2019	15/312,911	10337344
865	2012P26706 US01	March 7, 2014	July 2, 2019	14/201,109	10340611
866	2014P13167WOUS	May 5, 2015	July 2, 2019	15/321,307	10338542
867	2014P22091WOUS	January 7, 2016	July 9, 2019	15/545,476	10345368
868	2015P22793WOUS	October 31, 2016	July 9, 2019	15/774,443	10345530
869	2017P09338 US	July 12, 2017	July 9, 2019	15/647,847	10346228
870	2013P15811WOUS	June 29, 2015	July 16, 2019	15/323,469	10351962
871	2010P14115WOUS	August 19, 2011	July 16, 2019	13/824,622	10352240
872	2014P27121WOUS	December 16, 2015	July 16, 2019	15/539,259	10352174
873	2014P00082WOUS	January 21, 2014	July 16, 2019	15/113,056	10354820
874	2015P03679WOUS	April 5, 2016	July 16, 2019	15/567,137	10355562
875	2014P16310WOUS	September 16, 2015	July 23, 2019	15/510,912	10361024
876	2015P24052WOUS	December 16, 2015	July 30, 2019	15/777,419	10366808
877	2015P02459WOUS	April 20, 2016	August 6, 2019	15/576,962	10371058
878	2010P24647WOUS	September 14, 2012	August 6, 2019	14/354,571	10371004
879	2015P15363WOUS	July 21, 2016	August 6, 2019	15/752,684	10373785
880	2014P07985WOUS	July 9, 2015	August 13, 2019	15/324,871	10378367
881	2016P07383 US	May 19, 2016	August 13, 2019	15/159,349	10381147
882	2014P24778WOUS	November 19, 2015	August 20, 2019	15/527,469	10385732

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884	2014P08391WOUS	August 8, 2014	August 27, 2019	15/326,505	10393132
885	2013P26622WOUS	November 10, 2014	August 27, 2019	15/104,641	10392956
886	2014P20052WOUS	October 5, 2015	August 27, 2019	15/517,312	10392941
887	2014P26779WOUS	March 24, 2016	September 3, 2019	15/559,560	10400626
888	2016P01796WOUS	February 17, 2016	September 10, 2019	15/550,931	10408079
889	2014P06158WOUS	July 9, 2014	September 10, 2019	15/317,982	10408064
890	2012P25117WOUS	February 12, 2014	September 10, 2019	14/768,095	10408135
891	2013P18556WOUS	September 10, 2014	September 10, 2019	14/915,230	10408451
892	2013P05603WOUS	November 28, 2014	September 17, 2019	15/108,854	10415576
893	2015P07469WOUS	June 8, 2016	September 24, 2019	15/735,472	10422251
894	2015P26166WOUS	January 25, 2017	September 24, 2019	16/072,533	10424867
895	2013P02298WOUS	December 17, 2014	September 24, 2019	15/117,138	10424435
896	2016P07638WOUS	May 4, 2016	September 24, 2019	16/098,195	10425015
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899	2013P01796WOUS	June 10, 2014	October 1, 2019	14/902,863	10428669
900	2015P19517 US	November 7, 2016	October 8, 2019	15/344,818	10439319
901	2014P09985WOUS	May 22, 2015	October 8, 2019	15/311,923	10436046
902	2014P18238WOUS	October 5, 2015	October 8, 2019	15/519,704	10436058
903	2014P15247WOUS	August 19, 2015	October 8, 2019	15/503,552	10436030
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906	2014P10957WOUS	October 23, 2014	October 15, 2019	15/515,294	10443855
907	2016P08106WOUS	June 9, 2017	October 15, 2019	16/307,932	10441931
908	2013P22155WOUS	May 22, 2015	October 15, 2019	15/311,944	10443432
909	2017P16890 US	March 16, 2018	October 15, 2019	15/923,661	10446296
910	2013P22160WOUS	April 15, 2015	October 22, 2019	15/305,235	10450881
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913	2015P13012WOUS	August 19, 2016	October 22, 2019	15/758,938	10453632
914	2013P12565WOUS	October 27, 2014	October 29, 2019	15/034,946	10458466
915	2016P16381WOUS	September 5, 2016	October 29, 2019	16/329,958	10461663
916	2015P17773WOUS	July 5, 2016	October 29, 2019	15/753,239	10457879
917	2014P19278WOUS	March 16, 2016	October 29, 2019	15/556,739	10458516
918	2014P10569WOUS	August 17, 2015	October 29, 2019	15/329,366	10458427
919	2014P10369WOUS	May 21, 2015	November 5, 2019	15/317,305	10468173
920	2014P08427WOUS	April 22, 2015	November 5, 2019	15/312,711	10470259

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REEL: 056500 FRAME: 0440

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954	2012P24478WOUS	October 8, 2013	December 24, 2019	14/435,160	10514116

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and in and to said application or granted patents and all applications claiming priority to said application or granted patent, including, without limitation, and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of the inventions or improvements; and in and to all original and reissued patents which have been or shall be filed in the United States and all foreign countries on the inventions or improvements;

(II) Agree that the Assignee may apply for and receive Letters Patent for said improvements in its own name; and that, when requested, without charge to but at the expense of said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all the inventions or improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and legal representatives, all facts known to the undersigned relating to the inventions or improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or legal representatives shall consider desirable for aiding in securing and maintaining proper patent protection for the inventions or improvements and for vesting title to the inventions or improvements and all applications for patents and all patents on the inventions or improvements, in said Assignee, its successors, assigns and legal representatives; and

(III) Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property

herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

The Parties acknowledge and agree that the inventor(s) may have previously assigned its rights (including all and any priority rights) in one or more above-referenced applications for Letters Patents directly to a Party as directed by the other Party, consistent with the Agreements. Any such directed assignment shall remain in full force and effect and shall take precedence over this Assignment to the extent any conflict exists.


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09:28:38
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Feb 19 2021

PATENT
REEL: 056500 FRAME: 0446

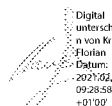
Siemens Aktiengesellschaft

Signature(s)	 Gollwitzer Michael <small>Digital signiert von Gollwitzer Michael DN: cn=Gollwitzer Michael, o=Siemens, email=michael.gollwitzer@siemens.com Gründ: ppa, Datum: 2021.02.26 13:44:56 +01'00'</small>	 Maier Daniel <small>Digital signiert von Maier Daniel DN: cn=Maier Daniel, o=Siemens, email=daniel.maier@siemens.com Datum: 2021.02.26 13:03:13 +01'00'</small>
Name(s)	Michael Gollwitzer	Daniel Maier
Title	<u>Both authorized officers</u>	
Date	_____	

Siemens Energy Global GmbH & Co. KG

Signature(s)	 Christian Zirkel <small>Digital unterschrieben von Christian Zirkel 4092 DN: cn=Christian Zirkel 4092 Gründ: i.V., Datum: 2021.03.01 09:38:16 +01'00'</small>	 Strohm Fredy <small>Digital signiert von Strohm Fredy DN: cn=Strohm Fredy, o=Siemens, email=fredy.strohm@siemens.com Datum: 2021.03.02 05:20:57 +01'00'</small>
Name(s)	4092	
Title	<u>Both authorized officers</u>	
Date	_____	

 **Rolf Bastian**
Digital unterschrieben von Rolf Bastian
Datum: 2021.02.25
15:33:04 +01'00'

 **Florian Kraus**
Digital unterschrieben von Florian Kraus
Datum: 2021.02.23
09:28:58
+01'00'

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RECORDED: 05/19/2021

Feb 19 2021
PATENT
REEL: 056500 FRAME: 0447