

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6889059

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
INTEL IP CORPORATION	05/12/2021
RECEIVING PARTY DATA	
Name:	INTEL CORPORATION
Street Address:	2200 MISSION COLLEGE BOULEVARD
City:	SANTA CLARA
State/Country:	CALIFORNIA
Postal Code:	95054
PROPERTY NUMBERS Total: 99	
Property Type	Number
Application Number:	15851077
Application Number:	62153615
Application Number:	14845958
Application Number:	62153630
Application Number:	15961131
Application Number:	62154882
Application Number:	62155499
Application Number:	62155305
Application Number:	16361928
Application Number:	14864993
Application Number:	62154889
Application Number:	62154893
Application Number:	62154902
Application Number:	62154910
Application Number:	62157304
Application Number:	62157376
Application Number:	14757961
Application Number:	62157070
Application Number:	62156980
Application Number:	62157318

PATENT

Property Type	Number
Application Number:	14749847
Application Number:	62158100
Application Number:	62157539
Application Number:	62158130
Application Number:	62159294
Application Number:	62161301
Application Number:	15688437
Application Number:	14751064
Application Number:	14757824
Application Number:	15041703
Patent Number:	9996487
Application Number:	14751977
Application Number:	15862196
Application Number:	14752704
Patent Number:	9398531
Application Number:	62164489
Patent Number:	9614632
Application Number:	62159076
Application Number:	62159061
Application Number:	62159059
Application Number:	62163696
Application Number:	62158199
Application Number:	15566903
Application Number:	62161775
Application Number:	62161770
Application Number:	62163218
Application Number:	15977216
Application Number:	62165075
Application Number:	62167022
Application Number:	62167088
Application Number:	14864238
Application Number:	62167386
Application Number:	16521350
Application Number:	62167379
Patent Number:	9813190
Application Number:	16853558
Application Number:	62171841
Application Number:	14998277

Property Type	Number
Application Number:	62191438
Application Number:	15756525
Application Number:	62165090
Application Number:	62165115
Application Number:	62166414
Application Number:	62169946
Application Number:	62169956
Application Number:	62169276
Application Number:	62166423
Application Number:	15571614
Application Number:	62168469
Application Number:	62169147
Application Number:	14839412
Patent Number:	9865146
Application Number:	15866197
Application Number:	62172903
Application Number:	14868437
Application Number:	62173792
Application Number:	14998280
Application Number:	62173776
Application Number:	14871500
Application Number:	62173803
Application Number:	62174007
Application Number:	62192977
Patent Number:	9907042
Application Number:	62175523
Application Number:	15748115
Application Number:	14757828
Application Number:	62181527
Application Number:	62182118
Application Number:	62181839
Application Number:	62200019
Application Number:	14837180
Application Number:	62182682
Application Number:	62182687
Application Number:	62183002
Application Number:	62185387
Application Number:	62188236

Property Type	Number
Application Number:	16574636
Application Number:	62187569
Application Number:	16237357

CORRESPONDENCE DATA

Fax Number: (612)677-3572
Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.
Phone: 612-236-9942
Email: amiller1@cpaglobal.com
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Address Line 4: MINNEAPOLIS, MINNESOTA 55402

ATTORNEY DOCKET NUMBER:	INTELIP-INACTIVEPART6-2.1
NAME OF SUBMITTER:	ANGELA MILLER
SIGNATURE:	/Angela Miller/
DATE SIGNED:	08/27/2021

Total Attachments: 91
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**Confirmatory Deed of Assignment
United States**

THIS DEED is made between:

Intel IP Corporation, a company duly organized and existing under the laws of the State of Delaware, with its principal place of business at 2200 Mission College Boulevard, Santa Clara, CA 95054, United States of America

("the Assignor");

and

Intel Corporation, a company duly organized and existing under the laws of the State of Delaware, with its principal place of business at 2200 Mission College Boulevard, Santa Clara, CA 95054, United States of America and a previous place of business at 2200 Mission College Boulevard, Santa Clara, CA 95052, United States of America

("the Assignee");

WHEREAS:

- (a) Assignor was previously the owner of the patents and patent applications in the United States as set forth in the attached "Annex A" (the "Transferred Patents Assets"); and
- (b) Pursuant to the Patent Assignment Agreement dated May 12, 2021, Assignor has previously assigned Assignor's entire right, title, and interest in and to the Transferred Patents Assets to the Assignee.

IT IS AGREED THAT:

For good and valuable consideration, receipt of which is hereby acknowledged by Assignor, Assignor hereby confirms that it has assigned, transferred and conveyed to Assignee, all of its right, title and interests (whether past, present or future) in the Transferred Patents Assets.

IN WITNESS WHEREOF, the Assignor and Assignee have caused this Confirmatory Deed of Assignment to be executed by their authorized representatives.

Signed on behalf of **Assignor** this 12th day
of May 2021 by:



Kenneth Nelson
Assistant Director of Patents
Intel IP Corporation

Signed on behalf of **Assignee** this 12th day
of May 2021 by:



Kenneth Nelson
Assistant Director of Patents
Intel Corporation

Annex A

No.	Reference Number	Status	Country	Filing Number	Publication Number	Grant Number
1	AA0234-US	Active	United States	15/721,178	US-2018-0136647-A1	
2	AA0235-US	Active	United States	15/721,137	US-2018-0136646-A1	
3	AA0236-US	Active	United States	15/721,164	US-2018-0136670-A1	10,338,610
4	AA0236-US-C1	Active	United States	16/459,367	US-2020-0033891-A1	
5	AA0237-US	Active	United States	15/721,126	US-2018-0134378-A1	10,780,979
6	AA0237-US-C1	Active	United States	17/002,466	US-2021-0001977-A1	
7	AA0387-US	Active	United States	15/716,594	US-2019-0094854-A1	10,606,260
8	AA0391-US	Active	United States	15/716,628	US-2019-0094889-A1	10,514,710
9	AA0391-US-C1	Active	United States	16/664,965	US-2020-0064870-A1	
10	AA0392-US	Active	United States	15/810,213	US-2019-0049944-A1	10,725,468
11	AA0624-US	Active	United States	15/719,108	US-2019-0098374-A1	10,397,667
12	AA0662-US	Active	United States	15/718,021	US-2019-0094861-A1	10,459,445
13	AA0671-PCT-US	Active	United States	16/646,088	US-2020-0285252-A1	
14	AA0738-US	Active	United States	15/811,726	US-2019-0049945-A1	10,852,723
15	AA0774-US	Active	United States	15/714,480	US-2019-0098088-A1	
16	AA1048-US	Active	United States	15/721,098	US-2019-0102911-A1	10,621,753
17	AA1136-US	Active	United States	15/721,486	US-2019-0103100-A1	10,692,492
18	AA1230-US	Active	United States	15/969,581	US-2019-0041988-A1	10,845,879
19	AA1283-US	Active	United States	15/719,581	US-2019-0100306-A1	
20	AA1458-US	Active	United States	15/718,037	US-2019-0092459-A1	10,633,083
21	AA1588-US	Active	United States	15/856,957	US-2019-0052865-A1	10,412,372
22	AA2025-US	Active	United States	15/821,784	US-2019-0047439-A1	
23	AA2208-US	Active	United States	15/819,545	US-2019-0042195-A1	10,324,689
24	AA2238-US	Active	United States	15/854,863	US-2019-0051016-A1	10,650,553
25	AA2283-US	Active	United States	15/835,393	US-2019-0036803-A1	
26	AA2313-US	Active	United States	15/864,029	US-2019-0043204-A1	
27	AA2377-US	Active	United States	15/810,202	US-2019-0146501-A1	10,386,842
28	AA2380-US	Active	United States	15/834,917	US-2019-0042942-A1	
29	AA2480-PCT-US	Active	United States	16/650,036		
30	AA2483-US	Active	United States	15/858,417	US-2019-0043350-A1	10,403,135
31	AA2483-US-C1	Active	United States	16/547,139	US-2020-0184811-A1	10,872,527
32	AA2534-PCT2-US	Active	United States	16/649,993	US-2021-0058194-A1	
33	AA2534-PCT-US	Active	United States	16/650,877	US-2020-0288406-A1	
34	AA2557-US	Active	United States	15/942,163	US-2019-0041272-A1	
35	AA2557-US-C1	Active	United States	17/240,861		
36	AA2702-PCT-US	Active	United States	16/462,871	US-2020-0280466-A1	
37	AA2717-US	Active	United States	15/870,742		10,110,495
38	AA2717-US-C1	Active	United States	16/150,121	US-2019-0245789-A1	10,567,291
39	AA2717-US-C2	Active	United States	16/792,503	US-2020-0296045-A1	
40	AA2731-PCT-US	Active	United States	16/649,939		
41	AA2810-US	Active	United States	15/813,245	US-2019-0051192-A1	
42	AA2885-US	Active	United States	16/127,558	US-2019-0081831-A1	10,805,130
43	AA2949-US	Active	United States	15/834,124	US-2019-0181981-A1	
44	AA2965-PCT-US	Active	United States	16/335,510	US-2020-0021979-A1	10,715,995

No.	Reference Number	Status	Country	Filing Number	Publication Number	Grant Number
45	AA3083-PCT-US	Active	United States	16/322,079	US-2019-0191323-A1	10,687,235
46	AA3208-US	Active	United States	15/854,866	US-2019-0049239-A1	10,724,854
47	AA3609-US	Active	United States	16/020,772	US-2020-0006244-A1	10,700,159
48	AA3609-US-D1	Active	United States	16/881,954	US-2020-0286982-A1	
49	AA3646-US	Active	United States	16/130,646	US-2019-0082390-A1	
50	AA3662-US	Active	United States	15/859,164	US-2019-0042192-A1	10,528,322
51	AA3813-US	Active	United States	16/025,575	US-2020-0006263-A1	10,546,826
52	AA4004-US	Active	United States	15/857,728	US-2019-0050655-A1	10,867,194
53	AA4031-US	Active	United States	15/827,564	US-2019-0163657-A1	10,339,082
54	AA4066-PCT-US	Active	United States	16/650,826	US-2020-0279908-A1	
55	AA4067-US	Active	United States	15/842,941		10,091,851
56	AA4109-US	Active	United States	16/121,974	US-2019-0050358-A1	10,713,201
57	AA4113-PCT-US	Active	United States	16/639,843		
58	AA4184-US	Active	United States	16/140,081	US-2019-0037448-A1	10,694,427
59	AA4184-US-C1	Active	United States	16/787,360	US-2020-0178123-A1	10,986,539
60	AA4211-EP-PCT-US	Active	United States	16/650,459		
61	AA4324-US	Active	United States	15/857,736	US-2019-0053296-A1	10,517,124
62	AA4393-US	Active	United States	15/857,706	US-2019-0050021-A1	10,747,259
63	AA4462-US	Active	United States	16/144,884	US-2019-0045444-A1	10,750,448
64	AA4462-US-C1	Active	United States	16/844,825	US-2020-0288400-A1	
65	AA4502-US	Active	United States	15/851,127	US-2019-0051007-A1	10,679,368
66	AA4556-US	Active	United States	16/145,847	US-2019-0045451-A1	10,728,856
67	AA4567-US	Active	United States	16/193,501	US-2019-0155769-A1	10,740,266
68	AA4747-PCT-US	Active	United States	16/646,486	US-2020-0274942-A1	
69	AA4852-PCT-US	Active	United States	16/646,110	US-2020-0280918-A1	
70	AA4876-EP-PCT-US	Active	United States	16/957,735	US-2020-0382963-A1	
71	AA4887-US	Active	United States	15/910,820	US-2019-0272950-A1	10,896,780
72	AA4887-US-C1	Active	United States	17/122,351	US-2021-0104359-A1	
73	AA4913-US	Active	United States	16/171,697	US-2019-0069298-A1	
74	AA4913-US-C1	Active	United States	17/142,526		
75	AA4949-US	Active	United States	15/892,510	US-2019-0043476-A1	10,657,952
76	AA4979-US	Active	United States	15/858,927	US-2019-0045378-A1	
77	AA5030-US	Active	United States	15/892,632	US-2019-0252792-A1	
78	AA5044-US	Active	United States	15/937,542	US-2019-0304922-A1	10,867,934
79	AA5110-PCT-US	Active	United States	16/646,319		
80	AA5170-US	Active	United States	16/132,436	US-2019-0044658-A1	10,601,549
81	AA5170-US-C1	Active	United States	16/583,342	US-2020-0021398-A1	10,924,217
82	AA5197-US	Active	United States	16/168,454	US-2019-0059101-A1	
83	AA5197-US-C1	Active	United States	17/193,086		
84	AA5213-US	Active	United States	15/917,032	US-2019-0279899-A1	10,872,812
85	AA5254-US	Active	United States	16/163,004	US-2019-0052378-A1	
86	AA5382-PCT-US	Active	United States	16/955,073	US-2021-0006279-A1	
87	AA5629-PCT-US	Active	United States	16/767,146	US-2020-0389342-A1	
88	AA5678-PCT-US	Active	United States	16/957,129	US-2021-0006282-A1	
89	AA5697-US	Active	United States	15/937,246		

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90	AA5700-US	Active	United States	16/144,983	US-2019-0045445-A1	
91	AA5776-US-C1	Active	United States	16/451,822	US-2019-0342757-A1	10,841,799
92	AA5879-PCT-US	Active	United States	16/650,882	US-2020-0321924-A1	
93	AA5945-PCT-US	Active	United States	16/627,928		
94	AA6006-PCT-US	Active	United States	16/767,288	US-2020-0403615-A1	
95	AA6029-PCT-US	Active	United States	16/466,000	US-2019-0296790-A1	10,979,099
96	AA6053-US	Active	United States	15/945,648	US-2019-0312016-A1	
97	AA6056-US	Active	United States	16/185,882	US-2019-0082345-A1	10,880,769
98	AA6057-US	Active	United States	15/937,616		10,278,025
99	AA6059-US	Active	United States	16/184,775	US-2019-0075538-A1	10,492,165
100	AA6078-US	Active	United States	15/941,428	US-2019-0044878-A1	
101	AA6219-US	Active	United States	15/949,527	US-2019-0043497-A1	
102	AA6310-US	Active	United States	15/875,705	US-2019-0049994-A1	10,802,504
103	AA6310-US-C1	Active	United States	17/019,785		
104	AA6344-US	Active	United States	16/196,392	US-2019-0089424-A1	
105	AA6378-PCT-US	Active	United States	16/645,278	US-2020-0305032-A1	
106	AA6418-PCT-US	Active	United States	16/912,722	US-2020-0328776-A1	
107	AA6528-PCT-US	Active	United States	16/645,403	US-2020-0288515-A1	
108	AA6575-PCT-US	Active	United States	16/649,061	US-2020-0267518-A1	
109	AA6579-US	Active	United States	16/202,559	US-2019-0098493-A1	
110	AA6633-US	Active	United States	15/939,118	US-2019-0042436-A1	
111	AA6655-US	Active	United States	15/981,830	US-2019-0355659-A1	
112	AA6665-US	Active	United States	16/199,931	US-2019-0098483-A1	
113	AA6665-US-C1	Active	United States	17/184,519		
114	AA6686-PCT-US	Active	United States	16/646,957	US-2020-0296187-A1	
115	AA6737-US	Active	United States	16/051,376	US-2020-0043874-A1	
116	AA6751-EP-US	Active	United States	16/402,273	US-2020-0007222-A1	10,707,946
117	AA6914-US	Active	United States	16/134,589	US-2019-0045522-A1	10,959,245
118	AA6914-US-C1	Active	United States	17/209,058		
119	AA6940-PCT-US	Active	United States	16/954,473	US-2021-0084533-A1	
120	AA7053-US	Active	United States	16/215,182	US-2019-0182674-A1	
121	AA7128-PCT-US	Active	United States	17/042,080	US-2021-0119664-A1	
122	AA7139-US	Active	United States	15/855,652	US-2018-0183855-A1	10,440,096
123	AA7139-US-C1	Active	United States	16/554,824	US-2020-0076875-A1	
124	AA7158-US	Active	United States	15/967,225	US-2019-0042522-A1	10,509,762
125	AA7159-US	Active	United States	16/220,950	US-2019-0124706-A1	10,880,934
126	AA7159-US-C1	Active	United States	17/030,619	US-2021-0014914-A1	
127	AA7218-US	Active	United States	16/198,436	US-2019-0098574-A1	10,834,671
128	AA7218-US-C1	Active	United States	17/030,922	US-2021-0007047-A1	
129	AA7261-US	Active	United States	16/229,573	US-2019-0158156-A1	10,461,817
130	AA7436-US	Active	United States	16/230,611	US-2019-0115961-A1	10,461,828
131	AA7485-PCT-US	Active	United States	17/041,490	US-2021-0135915-A1	
132	AA7547-US	Active	United States	15/856,123	US-2020-0027239-A1	10,521,663
133	AA7548-US	Active	United States	15/857,700	US-2019-0052307-A1	10,320,443
134	AA7549-US	Active	United States	15/856,106	US-2019-0044603-A1	

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135	AA7741-US	Active	United States	16/233,054	US-2019-0141537-A1	
136	AA7847-PCT-US	Active	United States	16/488,214	US-2020-0045618-A1	
137	AA7854-PCT-US	Active	United States	16/462,188	US-2020-0022218-A1	10,973,086
138	AA7885-EP-US	Active	United States	16/411,335	US-2020-0014444-A1	10,812,161
139	AA7892-US	Active	United States	16/015,334	US-2019-0393125-A1	
140	AA7936-US	Active	United States	16/234,249	US-2019-0132814-A1	10,750,467
141	AA7986-US	Active	United States	16/245,047	US-2019-0149269-A1	10,819,470
142	AA8023-US	Active	United States	16/251,010	US-2019-0159207-A1	10,667,265
143	AA8023-US-C1	Active	United States	16/882,824	US-2021-0045114-A1	
144	AA8058-US	Active	United States	16/022,555	US-2020-0007120-A1	10,693,450
145	AA8071-EP-PCT-US	Active	United States	16/976,083	US-2021-0044104-A1	
146	AA8209-US	Active	United States	16/019,585	US-2020-0006483-A1	
147	AA8230-US	Active	United States	15/939,180	US-2019-0305430-A1	
148	AA8279-PCT-US	Active	United States	16/976,084	US-2021-0119596-A1	
149	AA8295-US-C1	Active	United States	17/033,449	US-2021-0014790-A1	
150	AA8579-US	Active	United States	16/018,677	US-2019-0053191-A1	10,455,540
151	AA8598-US	Active	United States	16/233,417	US-2020-0213969-A1	
152	AA8754-PCT-US	Active	United States	16/958,040	US-2021-0067098-A1	
153	AA8761-PCT-US	Active	United States	16/766,888	US-2020-0356519-A1	
154	AA8764-PCT-US	Active	United States	16/958,123	US-2020-0366535-A1	
155	AA8766-PCT-US	Active	United States	16/766,921	US-2021-0021272-A1	
156	AA8768-PCT-US	Active	United States	16/766,843	US-2020-0321956-A1	
157	AA8770-PCT-US	Active	United States	16/958,049	US-2021-0065963-A1	
158	AA8775-PCT-US	Active	United States	15/733,329	US-2021-0120496-A1	
159	AA8792-PCT-US	Active	United States	16/958,131	US-2020-0358463-A1	
160	AA8802-PCT-US	Active	United States	17/041,996		
161	AA8827-PCT-US	Active	United States	16/975,464		
162	AA8832-US	Active	United States	16/022,140	US-2020-0008217-A1	10,609,722
163	AA8834-US	Active	United States	16/236,440	US-2019-0384883-A1	10,747,928
164	AA8921-US	Active	United States	16/234,217	US-2019-0132155-A1	
165	AA8921-US-C1	Active	United States	17/210,364		
166	AA9134-US	Active	United States	16/236,185	US-2019-0318445-A1	10,839,475
167	AA9134-US-C1	Active	United States	17/097,246	US-2021-0133915-A1	
168	AA9182-US	Active	United States	16/220,751	US-2019-0268972-A1	10,757,756
169	AA9182-US-D1	Active	United States	16/938,718	US-2020-0359461-A1	
170	AA9265-PCT-US	Active	United States	16/488,006	US-2020-0067646-A1	
171	AA9309-PCT-US	Active	United States	16/957,615	US-2020-0336144-A1	
172	AA9362-US	Active	United States	16/033,370	US-2019-0043515-A1	10,622,003
173	AA9458-US	Active	United States	15/966,976		10,206,134
174	AA9458-US-C1	Active	United States	16/272,908	US-2019-0335353-A1	10,588,043
175	AA9529-US	Active	United States	16/369,383	US-2020-0312539-A1	
176	AA9607-US	Active	United States	15/977,612	US-2019-0348749-A1	
177	AA9607-US-C1	Active	United States	17/231,051		
178	AA9769-US	Active	United States	15/939,806	US-2019-0305402-A1	
179	AA9994-PCT-US	Active	United States	16/630,113	US-2020-0162963-A1	

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180	AB0206-PCT-US	Active	United States	16/957,697	US-2021-0067605-A1	
181	AB0305-PCT-US	Active	United States	16/465,209	US-2020-0107327-A1	
182	AB0744-PCT-US	Active	United States	17/252,196		
183	AB0745-PCT-US	Active	United States	16/977,767		
184	AB0869-PCT-US	Active	United States	16/489,190	US-2020-0068391-A1	
185	AB1321-PCT-US	Active	United States	17/041,493	US-2021-0127369-A1	
186	AB1810-PCT-US	Active	United States	16/624,449	US-2020-0127719-A1	10,886,988
187	AB1810-PCT-US-C1	Active	United States	16/898,489	US-2020-0304189-A1	10,886,989
188	AB1810-PCT-US-C2	Active	United States	16/910,243	US-2020-0322019-A1	10,911,118
189	AB1812-PCT-US	Active	United States	16/624,463	US-2020-0228140-A1	
190	AB1812-PCT-US-C1	Active	United States	16/831,540	US-2020-0228141-A1	
191	AB1817-PCT-US	Active	United States	16/626,463	US-2020-0228224-A1	10,938,498
192	AB1817-PCT-US-C1	Active	United States	16/907,244	US-2020-0322078-A1	
193	AB1818-PCT-US	Active	United States	16/626,555	US-2020-0252156-A1	
194	AB1818-PCT-US-C1	Active	United States	16/910,269	US-2020-0328842-A1	
195	AB1818-PCT-US-C2	Active	United States	17/213,220		
196	AB1818-PCT-US-C3	Active	United States	17/213,222		
197	AB1941-PCT-US	Active	United States	16/603,908	US-2020-0119893-A1	
198	AB1943-PCT-US	Active	United States	16/465,486	US-2019-0342944-A1	10,939,501
199	AB1958-PCT-US	Active	United States	16/629,436	US-2020-0187173-A1	
200	AB2806-EP-PCT-US	Active	United States	17/254,315		
201	AB2828-US	Active	United States	16/115,228	US-2019-0045578-A1	
202	AB2828-US-C1	Active	United States	16/406,333	US-2019-0274186-A1	
203	AB3322-US	Active	United States	16/021,484	US-2020-0007265-A1	
204	AB3731-EP-PCT-US	Active	United States	17/254,324		
205	AB4153-US	Active	United States	16/177,703	US-2019-0132294-A1	
206	AB4207-US	Active	United States	16/119,350	US-2019-0045438-A1	10,750,445
207	AB4207-US-C1	Active	United States	16/995,504	US-2021-0037464-A1	
208	AB4382-US	Active	United States	16/128,388	US-2019-0045508-A1	10,701,688
209	AB4618-US	Active	United States	16/127,860	US-2019-0041509-A1	10,365,362
210	AB4618-US-C1	Active	United States	16/440,728	US-2019-0361108-A1	10,578,732
211	AB4650-PCT-US	Active	United States	16/753,343	US-2020-0322008-A1	
212	AB4650-PCT-US-C1	Active	United States	16/911,738	US-2020-0328843-A1	
213	AB4650-PCT-US-C2	Active	United States	16/940,897	US-2020-0358491-A1	
214	AB4650-PCT-US-C3	Active	United States	17/028,309	US-2021-0006308-A1	
215	AB4650-PCT-US-C4	Active	United States	17/028,356	US-2021-0006309-A1	
216	AB4811-US	Active	United States	16/194,639	US-2019-0090253-A1	10,638,493
217	AB4811-US-C1	Active	United States	16/727,130	US-2020-0137767-A1	10,945,273
218	AB4811-US-C1-C1	Active	United States	17/030,882	US-2021-0007111-A1	
219	AB4811-US-C1-C2	Active	United States	17/030,906	US-2021-0007112-A1	
220	AB5051-US	Active	United States	16/194,660	US-2020-0158888-A1	
221	AB5331-US	Active	United States	16/233,384	US-2019-0132729-A1	10,728,750
222	AB5356-US	Active	United States	16/216,417	US-2019-0182365-A1	
223	AB5359-US	Active	United States	16/163,472	US-2019-0053311-A1	10,785,819
224	AB5360-US	Active	United States	16/176,541	US-2019-0069176-A1	10,735,960

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225	AB5363-US	Active	United States	16/211,602	US-2019-0110250-A1	
226	AB5363-US-C1	Active	United States	16/447,022	US-2019-0306792-A1	10,912,024
227	AB5850-US	Active	United States	16/232,098	US-2020-0209383-A1	
228	AB7464-US	Active	United States	16/364,891		10,651,869
229	AB8935-US	Active	United States	16/271,168	US-2019-0174413-A1	10,856,226
230	AB8935-US-C1	Active	United States	17/097,912	US-2021-0068056-A1	
231	AB9207-US	Active	United States	16/270,746	US-2019-0246354-A1	10,716,066
232	AC0253-US	Active	United States	16/376,798	US-2019-0253984-A1	10,506,530
233	AC0253-US-C1	Active	United States	16/661,707	US-2020-0128492-A1	10,687,286
234	AC0255-US	Active	United States	16/382,531	US-2019-0238259-A1	10,979,169
235	AC0255-US-C1	Active	United States	17/199,861		
236	D133365-US	Active	United States	15/845,749	US-2019-0042502-A1	
237	D137783-US	Active	United States	15/855,379	US-2019-0043481-A1	10,672,380
238	D138747-US	Active	United States	15/681,913	US-2018-0054794-A1	10,368,332
239	D138747-US-C1	Active	United States	16/522,330	US-2020-0163039-A1	10,757,674
240	D139177-PCT-US	Active	United States	16/480,257	US-2019-0387435-A1	
241	D140350-US	Active	United States	15/857,670	US-2019-0049986-A1	10,901,428
242	D141175-US	Active	United States	15/865,428	US-2019-0043527-A1	10,770,094
243	D142983-US	Active	United States	15/858,732	US-2019-0042333-A1	10,481,958
244	D143153-US	Active	United States	15/847,955	US-2019-0049949-A1	10,678,238
245	D144674-PCT-US	Active	United States	16/480,262	US-2020-0015041-A1	10,708,720
246	D145523-PCT-US	Active	United States	16/651,971	US-2020-0260462-A1	
247	D145897-US	Active	United States	15/866,810	US-2019-0214327-A1	
248	D146390-US	Active	United States	15/857,676	US-2019-0051151-A1	10,937,310
249	D146931-PCT-US	Active	United States	16/651,279	US-2020-0275307-A1	
250	D147056-PCT-US	Active	United States	16/500,544	US-2020-0092850-A1	
251	D147165-US	Active	United States	16/024,125	US-2020-0006487-A1	
252	D147673-PCT-US	Active	United States	16/496,898		
253	D148175-US	Active	United States	16/146,672	US-2019-0103682-A1	10,741,932
254	D148175-US-C1	Active	United States	16/933,444	US-2021-0075122-A1	
255	D148221-US	Active	United States	15/721,053	US-2018-0152317-A1	
256	D148337-PCT-US	Active	United States	16/652,041	US-2020-0252877-A1	
257	D148780-PCT-US	Active	United States	16/625,744	US-2021-0068051-A1	
258	D148780-PCT-US-C1	Active	United States	16/831,462	US-2020-0228294-A1	
259	D148826-PCT-US	Active	United States	16/626,556	US-2020-0252253-A1	
260	D148826-PCT-US-C1	Active	United States	16/831,492	US-2020-0228241-A1	
261	D148950-US	Active	United States	16/574,449	US-2020-0014489-A1	
262	D148986-EP-PCT-US	Active	United States	16/642,962	US-2020-0267558-A1	
263	D149023-US	Active	United States	15/866,951		10,291,184
264	D149023-US-C1	Active	United States	16/387,986	US-2019-0245489-A1	10,749,476
265	D149023-US-C2	Active	United States	16/989,958	US-2021-0058036-A1	
266	D149081-US	Active	United States	15/857,189	US-2019-0206799-A1	10,546,817
267	D149081-US-C1	Active	United States	16/703,315	US-2020-0105678-A1	
268	D149083-US	Active	United States	15/938,741	US-2019-0304863-A1	10,699,980
269	D149083-US-C1	Active	United States	16/894,434	US-2020-0303274-A1	

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270	D149085-US	Active	United States	15/853,173	US-2019-0198478-A1	10,665,522
271	D149085-US-D1	Active	United States	16/855,418	US-2020-0251396-A1	
272	D149086-US	Active	United States	15/858,103	US-2019-0206800-A1	10,403,580
273	D149086-US-C1	Active	United States	16/458,675	US-2019-0393154-A1	10,720,393
274	D149218-US	Active	United States	16/039,643	US-2019-0045557-A1	10,448,437
275	D149225-US	Active	United States	16/018,268	US-2019-0393130-A1	
276	D149290-US	Active	United States	15/935,128	US-2019-0295857-A1	10,658,201
277	D149480-PCT-US	Active	United States	16/646,440	US-2020-0322070-A1	
278	D149582-US	Active	United States	15/857,835	US-2019-0042504-A1	10,528,508
279	D149582-US-C1	Active	United States	16/714,892	US-2020-0364169-A1	10,936,519
280	D149582-US-C2	Active	United States	17/187,112		
281	P100005PCT-US	Active	United States	16/329,312	US-2019-0253058-A1	10,840,923
282	P100005PCT-US-C1	Active	United States	17/087,642		
283	P105606	Active	United States	15/384,623	US-2018-0175918-A1	10,404,331
284	P105619PCT-US	Active	United States	16/321,484	US-2020-0343903-A1	10,998,915
285	P105621	Active	United States	15/282,404	US-2018-0096779-A1	10,199,157
286	P105621-C1	Active	United States	16/191,778	US-2019-0088405-A1	10,854,372
287	P105622	Active	United States	15/269,308	US-2018-0083819-A1	10,084,629
288	P105628	Active	United States	15/281,108	US-2018-0098270-A1	10,251,121
289	P105650	Active	United States	15/392,558	US-2018-0183702-A1	10,397,090
290	P105654	Active	United States	15/281,111	US-2018-0098351-A1	10,299,290
291	P105666EP-PCT-US	Active	United States	16/473,715	US-2021-0132676-A1	
292	P105669	Active	United States	15/453,330	US-2018-0262299-A1	10,313,058
293	P105671	Active	United States	15/280,350	US-2018-0092037-A1	10,477,476
294	P105674	Active	United States	15/281,114	US-2018-0095179-A1	10,371,824
295	P105674-C1	Active	United States	16/458,512	US-2019-0391275-A1	
296	P105684	Active	United States	15/392,722	US-2017-0353560-A1	10,218,797
297	P105689	Active	United States	15/393,321	US-2017-0353381-A1	10,148,558
298	P105696	Active	United States	15/279,293	US-2017-0353923-A1	10,142,931
299	P105698PCT-US	Active	United States	15/773,202	US-2018-0331749-A1	10,651,916
300	P105699PCT-US	Active	United States	15/772,482	US-2018-0324618-A1	
301	P105859PCT-US	Active	United States	16/305,769	US-2020-0329440-A1	
302	P105879	Active	United States	15/393,382	US-2017-0359151-A1	10,193,664
303	P105879-C1	Active	United States	16/255,436	US-2019-0296862-A1	
304	P105901	Active	United States	15/376,420	US-2018-0165881-A1	10,311,641
305	P105938PCT-US	Active	United States	16/081,148	US-2019-0075479-A1	10,849,002
306	P105956-C1	Active	United States	16/268,119	US-2020-0008206-A1	
307	P106083	Active	United States	15/277,164	US-2018-0090127-A1	10,339,918
308	P106234PCT-US-C1	Active	United States	17/157,641		
309	P106251	Active	United States	15/283,116	US-2018-0095512-A1	10,462,632
310	P106257	Active	United States	15/386,916	US-2018-0007179-A1	10,200,514
311	P106257-C1	Active	United States	16/238,145	US-2019-0149640-A1	10,911,582
312	P106351PCT-US	Active	United States	16/071,840		
313	P106393PCT-US	Active	United States	16/464,213	US-2019-0393191-A1	
314	P106566PCT-US	Active	United States	16/321,308	US-2019-0214944-A1	10,886,878

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315	P106576	Active	United States	15/290,300	US-2018-0102794-A1	10,938,424
316	P106605PCT-US	Active	United States	16/310,106	US-2019-0150189-A1	10,820,343
317	P106649	Active	United States	15/388,511	US-2018-0013474-A1	10,284,275
318	P106748	Active	United States	15/282,855	US-2018-0096970-A1	10,366,968
319	P106829PCT-US	Active	United States	16/344,633	US-2020-0066692-A1	
320	P106833	Active	United States	15/376,360	US-2018-0041961-A1	9,924,462
321	P106833-C1	Active	United States	15/897,601	US-2018-0242250-A1	10,499,335
322	P106913	Active	United States	15/391,431	US-2018-0027573-A1	10,244,543
323	P106973	Active	United States	15/393,329	US-2018-0027561-A1	10,374,778
324	P106973-C1	Active	United States	16/528,889	US-2020-0014519-A1	10,938,535
325	P106978	Active	United States	15/394,864	US-2018-0026750-A1	10,027,442
326	P106982	Active	United States	15/394,029	US-2018-0019792-A1	10,342,047
327	P106984	Active	United States	15/386,945	US-2018-0020448-A1	10,439,687
328	P106984-C1	Active	United States	16/560,595	US-2019-0393934-A1	10,911,108
329	P106990	Active	United States	15/281,119	US-2018-0098366-A1	10,039,147
330	P107007EP-PCT-US	Active	United States	16/328,744	US-2019-0215763-A1	10,966,145
331	P107008	Active	United States	15/280,085	US-2018-0091434-A1	10,122,642
332	P107023	Active	United States	15/384,621		9,775,082
333	P107115	Active	United States	15/385,879	US-2018-0176003-A1	10,177,904
334	P107168	Active	United States	15/392,840	US-2018-0183909-A1	10,097,674
335	P107528EP-US	Active	United States	15/811,730	US-2018-0175842-A1	10,972,085
336	P107661	Active	United States	15/636,295	US-2018-0041990-A1	10,694,499
337	P107661-C1	Active	United States	16/773,562	US-2020-0245297-A1	
338	P107662	Active	United States	15/672,565	US-2018-0048742-A1	10,609,187
339	P107662-C1	Active	United States	16/793,235	US-2020-0186627-A1	
340	P107935PCT-US	Active	United States	16/349,359	US-2019-0267312-A1	
341	P107936PCT-US	Active	United States	16/467,582	US-2020-0043826-A1	
342	P107937PCT-US	Active	United States	16/349,170	US-2019-0287904-A1	
343	P108013	Active	United States	15/392,398	US-2018-0049131-A1	10,194,394
344	P108013-C1	Active	United States	16/222,450	US-2019-0191379-A1	10,687,282
345	P108211	Active	United States	15/394,288	US-2018-0054847-A1	9,930,713
346	P108212	Active	United States	15/392,684	US-2018-0054838-A1	10,225,870
347	P108215	Active	United States	15/628,790	US-2018-0054240-A1	10,547,357
348	P108215-C1	Active	United States	16/739,433	US-2020-0177245-A1	10,979,107
349	P108245	Active	United States	15/385,359	US-2018-0176864-A1	10,045,296
350	P108246	Active	United States	15/648,205		10,075,201
351	P108252	Active	United States	15/393,332	US-2018-0192295-A1	10,602,368
352	P108317EP-US	Active	United States	15/811,798	US-2018-0175949-A1	10,439,744
353	P108333	Active	United States	15/394,428	US-2018-0054782-A1	10,383,057
354	P108333-C1	Active	United States	16/537,235	US-2020-0163020-A1	
355	P108372	Active	United States	15/386,871	US-2018-0176135-A1	10,142,237
356	P108522EP-PCT-US	Active	United States	16/490,117	US-2020-0076653-A1	10,924,306
357	P108522EP-PCT-US-C1	Active	United States	17/149,817		
358	P108551	Active	United States	15/475,245	US-2018-0063836-A1	10,187,889
359	P108551-C1	Active	United States	16/228,258	US-2019-0239219-A1	10,869,310

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360	P108552	Active	United States	15/474,778	US-2018-0062805-A1	
361	P108554	Active	United States	15/393,408	US-2018-0020480-A1	10,362,604
362	P108573	Active	United States	15/276,503	US-2017-0215039-A1	10,306,413
363	P108573-C1	Active	United States	16/387,075	US-2020-0053508-A1	10,928,480
364	P108585	Active	United States	15/272,028	US-2018-0084499-A1	10,098,067
365	P108590	Active	United States	15/638,590	US-2019-0004083-A1	
366	P108596PCT-US	Active	United States	16/463,107	US-2019-0288721-A1	
367	P108670PCT-US	Active	United States	16/474,564		
368	P108672PCT-US	Active	United States	16/329,028	US-2019-0222276-A1	10,797,767
369	P108673EP-PCT-US	Active	United States	16/348,184	US-2019-0268004-A1	10,804,908
370	P108673EP-PCT-US-C1	Active	United States	17/067,783		
371	P108675	Active	United States	15/393,109	US-2018-0183639-A1	10,044,537
372	P108676EP-PCT-US	Active	United States	16/348,199	US-2019-0334565-A1	10,938,425
373	P108677PCT-US	Active	United States	16/466,759	US-2019-0377075-A1	
374	P108678	Active	United States	15/598,907	US-2017-0255659-A1	10,366,064
375	P108686	Active	United States	15/468,871	US-2018-0069683-A1	10,277,378
376	P108686-C1	Active	United States	16/360,578	US-2019-0319771-A1	10,615,944
377	P108687PCT-US	Active	United States	16/322,238	US-2019-0199499-A1	10,797,839
378	P108693	Active	United States	15/391,149	US-2018-0182083-A1	10,733,697
379	P108724	Active	United States	15/392,746	US-2018-0184296-A1	10,701,745
380	P108724-C1	Active	United States	16/909,688	US-2020-0323004-A1	10,932,311
381	P108724-C1-C1	Active	United States	17/182,184		
382	P108727	Active	United States	15/477,089	US-2018-0288200-A1	10,652,368
383	P108727-C1	Active	United States	16/822,255	US-2020-0287997-A1	
384	P108728	Active	United States	15/396,241	US-2018-0192356-A1	10,334,511
385	P108728-C1	Active	United States	16/412,156	US-2019-0373537-A1	
386	P108737PCT-US	Active	United States	16/304,175	US-2019-0349529-A1	
387	P108738PCT-US	Active	United States	16/304,176	US-2020-0043352-A1	
388	P108867	Active	United States	15/372,962	US-2018-0167340-A1	10,284,501
389	P108953	Active	United States	15/386,905	US-2018-0177037-A1	10,091,866
390	P108958	Active	United States	15/475,368	US-2018-0284851-A1	
391	P109048	Active	United States	15/390,785	US-2018-0183647-A1	10,219,170
392	P109049	Active	United States	15/378,144	US-2018-0167841-A1	10,313,918
393	P109053	Active	United States	15/376,768	US-2018-0165123-A1	
394	P109067EP-US	Active	United States	15/794,028	US-2018-0175896-A1	10,284,241
395	P109225EP-PCT-US	Active	United States	16/342,542	US-2019-0297168-A1	10,542,116
396	P109239	Active	United States	15/468,368	US-2018-0084472-A1	10,368,285
397	P109497PCT-US	Active	United States	16/643,476	US-2020-0366457-A1	
398	P109575	Active	United States	15/607,164	US-2018-0098183-A1	10,321,296
399	P109575-C1	Active	United States	16/398,998	US-2019-0335311-A1	10,798,555
400	P109608	Active	United States	15/396,498	US-2018-0189922-A1	10,140,679
401	P109613PCT-US	Active	United States	16/474,565	US-2019-0349993-A1	10,952,250
402	P109704	Active	United States	15/373,404	US-2018-0167822-A1	10,129,758
403	P109754PCT-US	Active	United States	16/642,801	US-2020-0352035-A1	
404	P109755	Active	United States	15/464,920	US-2018-0277512-A1	10,727,197

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405	P109755-D1	Active	United States	16/915,282	US-2020-0328182-A1	
406	P109756	Active	United States	15/476,270	US-2018-0286798-A1	10,263,106
407	P109756-D1	Active	United States	16/298,680	US-2019-0207027-A1	10,629,731
408	P109816PCT-US	Active	United States	16/469,382	US-2020-0021670-A1	
409	P109861	Active	United States	15/392,843	US-2018-0184467-A1	10,342,062
410	P109978PCT-US	Active	United States	16/469,113	US-2020-0020629-A1	
411	P110016EP-US	Active	United States	15/828,455	US-2018-0192379-A1	10,051,584
412	P110017	Active	United States	15/388,289		9,882,661
413	P110018	Active	United States	15/392,064	US-2018-0180714-A1	10,340,958
414	P110019EP-US	Active	United States	15/811,721	US-2018-0175878-A1	10,110,245
415	P110020	Active	United States	15/387,948	US-2018-0183390-A1	10,469,036
416	P110021PCT-US	Active	United States	16/618,580	US-2020-0161755-A1	
417	P110065	Active	United States	15/394,388	US-2018-0190589-A1	10,141,265
418	P110244	Active	United States	15/386,485	US-2018-0176009-A1	10,574,445
419	P110244-C1	Active	United States	16/798,597	US-2020-0287713-A1	
420	P110483	Active	United States	15/387,953	US-2017-0188368-A1	10,171,420
421	P110483-C1	Active	United States	16/204,527	US-2019-0199682-A1	10,498,697
422	P110662	Active	United States	15/344,227	US-2017-0135046-A1	10,420,038
423	P110662C	Active	United States	15/626,243	US-2017-0289926-A1	10,531,403
424	P110663	Active	United States	15/396,071	US-2017-0331534-A1	10,148,330
425	P111368	Active	United States	15/610,041	US-2018-0352152-A1	10,652,456
426	P111378PCT-US	Active	United States	16/321,814	US-2019-0246423-A1	10,904,916
427	P111625DS	Active	United States	29/580,375		D834,655
428	P111635EP-PCT-US	Active	United States	16/487,107		
429	P111637	Active	United States	15/635,906	US-2019-0006734-A1	10,615,486
430	P111638	Active	United States	15/475,996	US-2018-0288697-A1	10,129,823
431	P111638-C1	Active	United States	16/157,836	US-2020-0119705-A1	10,826,447
432	P111638-C1-C1	Active	United States	17/063,075	US-2021-0091732-A1	
433	P111652	Active	United States	15/474,979	US-2018-0131421-A1	10,461,819
434	P111652-C1	Active	United States	16/596,371	US-2020-0160614-A1	
435	P111672	Active	United States	15/391,332	US-2018-0184435-A1	
436	P111686	Active	United States	15/378,106	US-2018-0167237-A1	10,411,914
437	P111686-C1	Active	United States	16/525,618	US-2020-0028551-A1	
438	P111693	Active	United States	15/375,338	US-2017-0303314-A1	10,582,537
439	P111696	Active	United States	15/472,463	US-2017-0289933-A1	10,512,047
440	P111696-C1	Active	United States	16/688,542	US-2020-0107282-A1	
441	P111702	Active	United States	15/475,334	US-2018-0288626-A1	10,419,945
442	P111704	Active	United States	15/392,302	US-2018-0183507-A1	10,164,699
443	P111725	Active	United States	15/394,866	US-2017-0339533-A1	10,257,666
444	P111725-C1	Active	United States	16/288,328	US-2019-0268731-A1	10,848,929
445	P111764PCT-US	Active	United States	16/477,122	US-2020-0359350-A1	
446	P111803PCT-US	Active	United States	16/461,724	US-2019-0364502-A1	
447	P111848	Active	United States	15/392,575	US-2018-0183723-A1	10,230,654
448	P111863	Active	United States	15/392,461	US-2018-0184326-A1	10,212,623
449	P111869	Active	United States	15/390,376		9,794,879

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450	P111869-C1	Active	United States	15/712,101	US-2018-0184374-A1	10,568,027
451	P111869-C1-C1	Active	United States	16/786,638	US-2020-0359313-A1	
452	P111926	Active	United States	15/613,487		10,037,761
453	P111926-C1	Active	United States	16/037,845	US-2018-0350373-A1	10,325,605
454	P111974	Active	United States	15/719,392	US-2018-0139077-A1	10,686,628
455	P112236	Active	United States	15/476,366	US-2018-0288695-A1	10,924,990
456	P112236-C1	Active	United States	17/176,097		
457	P112247-PCT-US	Active	United States	16/461,692	US-2019-0356410-A1	
458	P112332	Active	United States	15/463,985	US-2018-0267924-A1	10,754,812
459	P112334	Active	United States	15/466,810	US-2018-0278213-A1	10,361,659
460	P112334-C1	Active	United States	16/505,605	US-2020-0014335-A1	
461	P112349	Active	United States	15/605,024	US-2018-0343554-A1	10,278,056
462	P112359	Active	United States	15/438,497	US-2018-0240471-A1	10,170,134
463	P112359-D1	Active	United States	16/197,211	US-2019-0088269-A1	10,490,204
464	P112441PCT-US	Active	United States	16/346,469	US-2019-0281484-A1	10,880,771
465	P112551PCT-US	Active	United States	16/467,674	US-2019-0373599-A1	
466	P112565	Active	United States	15/464,000	US-2018-0269921-A1	10,432,247
467	P112566PCT-US	Active	United States	16/474,562	US-2019-0384230-A1	10,768,580
468	P112567PCT-US	Active	United States	16/474,582	US-2020-0014397-A1	10,797,719
469	P112567PCT-US-C1	Active	United States	17/009,827		
470	P112568PCT-US	Active	United States	16/484,836	US-2019-0386693-A1	10,784,908
471	P112572	Active	United States	15/588,065		9,900,016
472	P112583	Active	United States	15/638,931	US-2019-0004834-A1	10,445,119
473	P112611EP-PCT-US	Active	United States	16/485,799	US-2020-0052931-A1	10,708,091
474	P112660	Active	United States	15/433,298	US-2018-0234606-A1	10,911,689
475	P112660-C1	Active	United States	17/161,392		
476	P112717	Active	United States	15/637,641	US-2019-0006281-A1	10,431,545
477	P112718	Active	United States	15/637,935	US-2019-0006318-A1	10,403,602
478	P112718-C1	Active	United States	16/515,979	US-2019-0341371-A1	
479	P112787PCT-US	Active	United States	16/349,909	US-2020-0068655-A1	
480	P112812PCT-US	Active	United States	16/474,015	US-2020-0111607-A1	
481	P112813PCT-US	Active	United States	16/473,566	US-2020-0144723-A1	
482	P112949PCT-US	Active	United States	16/486,344	US-2020-0314600-A1	
483	P113145PCT-US	Active	United States	16/487,657	US-2020-0068455-A1	
484	P113418	Active	United States	15/473,743	US-2018-0288719-A1	10,327,216
485	P113422	Active	United States	15/474,163	US-2018-0288698-A1	
486	P113431PCT-US	Active	United States	16/474,563	US-2020-0021274-A1	
487	P113432	Active	United States	15/634,183	US-2018-0375519-A1	10,263,624
488	P113568	Active	United States	15/449,696	US-2018-0253288-A1	
489	P113595	Active	United States	15/470,390	US-2018-0278697-A1	10,659,540
490	P113595-C1	Active	United States	16/847,231	US-2020-0382611-A1	
491	P113601	Active	United States	15/474,497	US-2018-0288664-A1	10,349,325
492	P113602	Active	United States	15/638,656	US-2019-0007979-A1	10,425,982
493	P113602-C1	Active	United States	16/538,754	US-2020-0037384-A1	
494	P113824	Active	United States	15/477,035	US-2018-0286103-A1	10,553,010

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495	P113824-D1	Active	United States	16/749,856	US-2020-0160583-A1	
496	P114164	Active	United States	15/474,301		10,049,961
497	P114164-C1	Active	United States	16/102,117	US-2019-0067163-A1	10,332,821
498	P114166	Active	United States	15/473,251	US-2018-0286780-A1	10,103,088
499	P114172PCT-US	Active	United States	16/617,548	US-2020-0185490-A1	
500	P114235PCT-US	Active	United States	16/490,521	US-2020-0126922-A1	
501	P114283	Active	United States	15/638,550	US-2018-0092039-A1	10,609,647
502	P114283-C1	Active	United States	16/792,746	US-2020-0351783-A1	10,972,980
503	P114283-C1-C1	Active	United States	17/196,527		
504	P114286	Active	United States	15/472,920	US-2018-0288742-A1	10,231,214
505	P114331PCT-US	Active	United States	16/490,011	US-2020-0244294-A1	10,972,140
506	P114332PCT-US	Active	United States	16/492,801	US-2020-0059386-A1	10,880,136
507	P114334PCT-US	Active	United States	16/489,850	US-2020-0021477-A1	
508	P114343	Active	United States	15/612,785	US-2018-0348299-A1	10,184,983
509	P114444	Active	United States	15/684,764	US-2019-0062137-A1	
510	P114916PCT-US	Active	United States	16/485,674		
511	P114921PCT-US	Active	United States	16/489,832	US-2020-0021355-A1	
512	P114923PCT-US	Active	United States	16/473,688	US-2020-0015144-A1	
513	P115157PCT-US	Active	United States	16/499,880	US-2020-0112969-A1	
514	P115159DE-US	Active	United States	15/960,632	US-2018-0332660-A1	10,999,894
515	P115159DE-US-C1	Active	United States	17/218,177		
516	P115161PCT-US	Active	United States	16/499,975		
517	P115165DE-US	Active	United States	15/959,316	US-2018-0331748-A1	10,256,891
518	P115313	Active	United States	15/637,559	US-2019-0005945-A1	10,255,909
519	P115463PCT-US	Active	United States	16/487,564	US-2020-0059861-A1	
520	P115536	Active	United States	15/476,418	US-2018-0288758-A1	10,939,445
521	P115536-C1	Active	United States	17/189,148		
522	P115606PCT-US	Active	United States	16/487,959	US-2019-0386714-A1	
523	P115606PCT-US-C1	Active	United States	17/030,948	US-2021-0006301-A1	
524	P115649PCT-US	Active	United States	16/618,420	US-2020-0235744-A1	10,944,409
525	P115763EP-PCT-US	Active	United States	16/610,113	US-2020-0083919-A1	
526	P115826PCT-US	Active	United States	16/487,986	US-2020-0029236-A1	
527	P116825PCT-US	Active	United States	16/311,904	US-2019-0207713-A1	10,924,218
528	P117283PCT-US	Active	United States	16/641,244	US-2020-0228125-A1	
529	P117572PCT-US	Active	United States	16/618,427		
530	P117820PCT-US	Active	United States	16/635,146	US-2021-0057367-A1	
531	P117917	Active	United States	15/692,513	US-2018-0242248-A1	10,433,253
532	P117917-C1	Active	United States	16/551,894	US-2020-0008149-A1	
533	P118047	Active	United States	15/637,748	US-2019-0004819-A1	10,445,108
534	P118047-C2	Active	United States	16/599,194	US-2020-0150978-A1	
535	P118123	Active	United States	15/714,501	US-2018-0317170-A1	10,251,125
536	P118654PCT-US	Active	United States	16/322,088	US-2019-0190752-A1	10,834,755
537	P119472PCT-US	Active	United States	16/641,243	US-2020-0228264-A1	
538	P119473PCT-US	Active	United States	16/650,896		
539	P119721	Active	United States	15/719,029	US-2018-0234921-A1	10,462,744

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540	P119721-C1	Active	United States	16/570,905	US-2020-0015167-A1	
541	P120044PCT-US	Active	United States	16/639,782	US-2020-0204068-A1	
542	P120155	Active	United States	15/721,264	US-2019-0103834-A1	10,680,552
543	P120588	Active	United States	15/719,653	US-2019-0103333-A1	10,535,578
544	P120697PCT-US	Active	United States	16/474,145	US-2019-0349232-A1	
545	P120741-PCT-US	Active	United States	16/627,941		
546	P120801PCT-US	Active	United States	16/641,241	US-2020-0227388-A1	
547	P53128	Active	United States	13/931,918	US-2014-0192820-A1	10,200,974
548	P53164	Active	United States	13/931,921	US-2014-0198783-A1	9,749,974
549	P53164C	Active	United States	15/194,567	US-2016-0309436-A1	10,412,696
550	P53164C-C1	Active	United States	16/522,577	US-2019-0349876-A1	10,972,993
551	P53587US	Active	United States	14/125,636	US-2015-0327200-A1	9,635,628
552	P53587US-REI	Active	United States	15/823,368		
553	P53932	Active	United States	13/803,143		8,779,564
554	P54499US	Active	United States	14/124,767	US-2015-0180978-A1	9,479,595
555	P54499USC	Active	United States	15/198,090	US-2016-0308976-A1	10,313,449
556	P54509US	Active	United States	14/129,949	US-2014-0301219-A1	9,532,239
557	P54509USC	Active	United States	15/389,553	US-2017-0208484-A1	10,142,862
558	P54517	Active	United States	13/923,662	US-2014-0378057-A1	9,425,962
559	P54649US	Active	United States	14/410,189	US-2016-0021656-A1	9,918,311
560	P54649USC	Active	United States	15/419,207	US-2017-0142717-A1	9,930,663
561	P54861US	Active	United States	14/128,022	US-2015-0091750-A1	9,733,363
562	P54862US	Active	United States	14/129,302	US-2015-0172870-A1	9,473,899
563	P54863US	Active	United States	14/125,980	US-2016-0142242-A1	9,571,324
564	P54867USD	Active	United States	15/076,494	US-2016-0205642-A1	9,907,037
565	P54875US	Active	United States	14/129,300	US-2014-0349675-A1	9,629,116
566	P54885	Active	United States	13/892,420	US-2014-0334620-A1	9,100,466
567	P54898	Active	United States	13/892,398	US-2014-0333339-A1	10,006,942
568	P54900D	Active	United States	15/138,245	US-2016-0240525-A1	9,595,516
569	P55507US	Active	United States	14/125,870	US-2015-0139217-A1	9,585,112
570	P55507USC	Active	United States	15/443,614	US-2017-0273040-A1	9,949,223
571	P55663	Active	United States	14/108,965	US-2015-0171955-A1	9,432,112
572	P55663C	Active	United States	15/190,747	US-2016-0301465-A1	9,793,983
573	P55737	Active	United States	14/189,938	US-2015-0243572-A1	9,397,019
574	P55737D	Active	United States	15/182,434	US-2016-0293453-A1	9,653,324
575	P55737DC	Active	United States	15/590,890	US-2017-0345678-A1	10,373,844
576	P55861US	Active	United States	14/398,049	US-2015-0333401-A1	9,819,327
577	P55874US	Active	United States	14/403,571	US-2016-0200566-A1	9,663,353
578	P55874USD	Active	United States	15/484,765	US-2017-0217766-A1	10,150,668
579	P55874USD-C1	Active	United States	15/857,461	US-2018-0186627-A1	10,301,176
580	P55891	Active	United States	13/931,902	US-2015-0001689-A1	9,362,233
581	P55891C	Active	United States	15/174,545	US-2016-0359520-A1	10,135,481
582	P55891C-D1	Active	United States	16/163,024	US-2019-0052301-A1	
583	P55975	Active	United States	14/064,800	US-2015-0116158-A1	9,570,796
584	P55976	Active	United States	14/140,801	US-2015-0188583-A1	9,331,722

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585	P55976C	Active	United States	15/099,301	US-2016-0337055-A1	9,705,613
586	P55977	Active	United States	13/969,132	US-2015-0049840-A1	9,071,304
587	P55979	Active	United States	14/546,127	US-2015-0171848-A1	9,281,811
588	P55982	Active	United States	14/138,508	US-2015-0181643-A1	9,288,841
589	P55982C	Active	United States	14/997,056	US-2016-0261401-A1	9,660,798
590	P55982C2	Active	United States	15/586,619	US-2017-0237549-A1	10,230,520
591	P56082US	Active	United States	14/129,580	US-2015-0208463-A1	9,750,077
592	P56343	Active	United States	14/014,630	US-2014-0349669-A1	9,516,509
593	P56344	Active	United States	14/035,276	US-2014-0351444-A1	9,538,561
594	P56344C	Active	United States	15/361,147	US-2017-0099356-A1	10,749,973
595	P56344C2	Active	United States	15/604,108	US-2017-0264697-A1	10,749,974
596	P56344C2-C1	Active	United States	15/916,918	US-2018-0198873-A1	10,721,314
597	P56344C2-C2	Active	United States	16/995,604		
598	P56478C	Active	United States	15/147,680	US-2016-0345368-A1	10,034,316
599	P56786	Active	United States	14/080,848	US-2015-0139080-A1	9,584,253
600	P57104	Active	United States	14/138,193	US-2015-0180513-A1	9,450,687
601	P57104C	Active	United States	15/270,154	US-2017-0054215-A1	10,109,921
602	P57344	Active	United States	14/303,821		9,172,570
603	P59761US	Active	United States	15/024,085	US-2016-0225388-A1	10,249,322
604	P59815	Active	United States	13/192,301	US-2013-0027007-A1	8,779,853
605	P59816	Active	United States	13/450,570	US-2013-0278342-A1	8,868,022
606	P59824	Active	United States	12/901,868	US-2012-0086420-A1	8,436,595
607	P59848	Active	United States	13/715,704	US-2014-0167871-A1	9,070,510
608	P59860	Active	United States	13/904,575	US-2014-0354308-A1	9,322,719
609	P59861	Active	United States	13/895,101	US-2014-0341581-A1	9,253,875
610	P59862	Active	United States	13/078,502	US-2012-0252396-A1	8,364,112
611	P59887	Active	United States	13/169,661	US-2012-0329512-A1	8,805,305
612	P59899	Active	United States	13/894,268	US-2014-0341315-A1	9,154,168
613	P59918	Active	United States	13/176,509	US-2013-0012141-A1	8,433,255
614	P59961	Active	United States	14/631,937	US-2015-0280690-A1	10,320,366
615	P59962	Active	United States	14/478,388	US-2015-0092623-A1	9,627,770
616	P60947	Active	United States	14/227,916	US-2015-0071248-A1	9,467,909
617	P61052US	Active	United States	14/779,559	US-2016-0037466-A1	10,091,709
618	P61053US	Active	United States	14/779,948	US-2016-0066251-A1	9,736,762
619	P61053US-C1	Active	United States	15/648,655	US-2017-0311235-A1	10,667,202
620	P61053US-C1-C1	Active	United States	16/855,767	US-2020-0252860-A1	
621	P61167US	Active	United States	15/021,983	US-2016-0234697-A1	9,860,893
622	P61168US	Active	United States	15/022,477	US-2016-0234779-A1	9,883,505
623	P61169US	Active	United States	14/392,232	US-2016-0143010-A1	9,775,147
624	P61200	Active	United States	14/102,643	US-2015-0163846-A1	9,351,330
625	P61537US	Active	United States	15/039,553	US-2017-0026099-A1	10,103,796
626	P61628US	Active	United States	15/039,137	US-2017-0026994-A1	10,015,812
627	P61629US	Active	United States	15/026,757	US-2016-0291122-A1	10,466,337
628	P61653	Active	United States	14/164,438	US-2015-0214996-A1	9,432,076
629	P61654	Active	United States	14/230,235	US-2015-0280759-A1	10,128,879

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630	P61654-C1	Active	United States	16/176,322	US-2019-0068228-A1	10,396,839
631	P61838US	Active	United States	15/100,923	US-2016-0309437-A1	10,225,813
632	P61956US	Active	United States	15/026,610	US-2016-0255613-A1	10,039,107
633	P62051	Active	United States	14/229,792	US-2015-0282186-A1	9,923,663
634	P62052	Active	United States	14/150,276	US-2015-0193359-A1	9,439,028
635	P62053US	Active	United States	15/023,163	US-2016-0234049-A1	9,930,659
636	P62074US	Active	United States	15/026,820	US-2016-0301501-A1	9,668,258
637	P62076US	Active	United States	15/109,890	US-2016-0345336-A1	10,182,446
638	P62084	Active	United States	14/206,052	US-2015-0264557-A1	9,509,827
639	P62425	Active	United States	14/593,843	US-2015-0237443-A1	9,681,227
640	P62513US-D	Active	United States	15/394,575	US-2017-0111126-A1	9,825,715
641	P62517	Active	United States	14/181,325	US-2015-0235920-A1	9,818,672
642	P62692US	Active	United States	15/501,192	US-2017-0236528-A1	10,181,329
643	P62716	Active	United States	14/227,729	US-2015-0281709-A1	9,591,316
644	P62724C	Active	United States	14/951,385	US-2016-0078927-A1	9,595,316
645	P62727	Active	United States	14/270,555	US-2015-0325313-A1	9,418,759
646	P62886	Active	United States	14/109,112	US-2015-0009948-A1	9,479,298
647	P62886C	Active	United States	15/332,602	US-2017-0041109-A1	9,742,531
648	P62933	Active	United States	14/134,461	US-2015-0009964-A1	9,264,191
649	P62933C	Active	United States	15/015,348	US-2016-0226600-A1	9,787,444
650	P62933C2	Active	United States	15/727,920	US-2018-0034601-A1	10,075,265
651	P62945	Active	United States	14/135,296	US-2015-0009903-A1	9,270,425
652	P63238	Active	United States	14/316,645	US-2015-0379963-A1	9,679,538
653	P63256	Active	United States	14/329,717	US-2016-0013153-A1	10,056,352
654	P63329	Active	United States	14/293,878	US-2015-0349857-A1	9,584,195
655	P63329C	Active	United States	15/443,597	US-2017-0366237-A1	
656	P63329C-C1	Active	United States	17/210,884		
657	P63346	Active	United States	14/228,575	US-2015-0237652-A1	9,661,656
658	P63346C	Active	United States	15/601,355	US-2018-0042047-A1	10,375,728
659	P63347	Active	United States	14/224,397	US-2015-0282183-A1	9,444,655
660	P63349	Active	United States	14/227,085	US-2015-0139089-A1	9,510,346
661	P63355	Active	United States	14/293,871	US-2015-0351102-A1	9,736,857
662	P63360	Active	United States	14/293,858	US-2015-0350924-A1	9,686,694
663	P63360-C1	Active	United States	15/627,299	US-2018-0098228-A1	10,425,834
664	P63363	Active	United States	14/228,388	US-2015-0281909-A1	9,622,045
665	P63401	Active	United States	14/293,848	US-2015-0351135-A1	9,497,785
666	P63417	Active	United States	14/660,187	US-2015-0281987-A1	10,462,687
667	P63487	Active	United States	14/631,901	US-2015-0280652-A1	9,819,311
668	P63487-C1	Active	United States	15/662,384	US-2018-0013390-A1	10,608,591
669	P63488	Active	United States	14/228,333	US-2015-0278012-A1	9,495,232
670	P63584	Active	United States	14/229,573	US-2015-0282124-A1	9,253,771
671	P63585	Active	United States	14/229,652	US-2015-0282051-A1	9,456,406
672	P63588	Active	United States	14/226,592	US-2015-0009949-A1	9,379,856
673	P63588C	Active	United States	15/176,380	US-2016-0286508-A1	9,686,055
674	P63588C2	Active	United States	15/595,655	US-2017-0251425-A1	10,291,369

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675	P63590	Active	United States	14/229,858	US-2015-0009875-A1	10,439,769
676	P63596	Active	United States	14/227,829	US-2015-0009975-A1	9,912,449
677	P63596-C1	Active	United States	15/882,650	US-2018-0152270-A1	10,411,845
678	P63596-C2	Active	United States	16/409,651	US-2019-0363845-A1	
679	P63719	Active	United States	14/611,409	US-2015-0280674-A1	9,225,308
680	P63720	Active	United States	14/318,754	US-2015-0380818-A1	10,008,775
681	P63723	Active	United States	14/619,425	US-2015-0280675-A1	9,450,553
682	P63736	Active	United States	14/495,825	US-2015-0215827-A1	10,237,911
683	P63786	Active	United States	14/582,373	US-2015-0237547-A1	9,681,342
684	P63786-C1	Active	United States	15/598,195	US-2017-0257804-A1	10,257,754
685	P63790	Active	United States	14/583,221	US-2015-0223146-A1	9,775,011
686	P63790-C1	Active	United States	15/688,790	US-2017-0359706-A1	10,390,189
687	P63799	Active	United States	14/583,652	US-2015-0223088-A1	9,497,651
688	P63810US	Active	United States	15/309,433	US-2017-0150526-A1	10,455,616
689	P63811US	Active	United States	15/116,009	US-2017-0134975-A1	10,182,362
690	P63811US-C1	Active	United States	16/217,889	US-2019-0230533-A1	10,863,373
691	P63812C	Active	United States	15/161,248	US-2016-0374086-A1	10,098,118
692	P63812C-C1	Active	United States	16/125,712	US-2019-0141706-A1	10,531,463
693	P63812C-C1-C1	Active	United States	16/710,321	US-2020-0112961-A1	10,945,266
694	P63815US	Active	United States	15/123,861	US-2017-0019762-A1	10,484,819
695	P63818	Active	United States	14/227,062	US-2015-0282081-A1	9,439,144
696	P63823	Active	United States	14/228,416	US-2015-0282079-A1	9,462,549
697	P63824US	Active	United States	15/110,841	US-2016-0337985-A1	10,009,854
698	P64062US	Active	United States	15/120,994	US-2016-0366718-A1	10,075,992
699	P64155	Active	United States	14/318,857	US-2015-0381156-A1	9,407,245
700	P64156	Active	United States	14/686,248	US-2015-0372690-A1	9,548,750
701	P64156C	Active	United States	15/380,398	US-2017-0097613-A1	9,851,696
702	P64416	Active	United States	14/582,996	US-2015-0264637-A1	
703	P64416-C1	Active	United States	16/460,142	US-2019-0373540-A1	10,660,029
704	P64416-C1-C1	Active	United States	16/851,641	US-2020-0288388-A1	
705	P64434US	Active	United States	15/119,086	US-2016-0360438-A1	10,080,153
706	P64470	Active	United States	14/573,356	US-2015-0264693-A1	9,756,645
707	P64629-C1	Active	United States	15/708,903	US-2018-0006859-A1	10,404,506
708	P64802	Active	United States	14/582,382	US-2015-0271708-A1	9,980,299
709	P64802-C1	Active	United States	15/878,175	US-2018-0152980-A1	
710	P64803	Active	United States	14/532,751	US-2015-0271087-A1	9,787,595
711	P65247	Active	United States	14/338,137	US-2015-0139206-A1	9,325,463
712	P65247C	Active	United States	15/052,600	US-2016-0211961-A1	9,450,725
713	P65247C2	Active	United States	15/263,864	US-2017-0135035-A1	10,177,888
714	P65545	Active	United States	14/335,396	US-2016-0020894-A1	9,503,249
715	P65732	Active	United States	14/315,562	US-2015-0139090-A1	9,462,504
716	P65736	Active	United States	14/315,723	US-2015-0382360-A1	9,825,729
717	P65736-C1	Active	United States	15/727,744	US-2018-0159654-A1	10,432,344
718	P65740C	Active	United States	14/977,405	US-2016-0112899-A1	9,615,291
719	P65748	Active	United States	14/341,055	US-2015-0139091-A1	9,853,784

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720	P65748-C1	Active	United States	15/801,680	US-2018-0109365-A1	10,348,469
721	P66016	Active	United States	14/858,088	US-2016-0173035-A1	9,673,764
722	P66021	Active	United States	14/835,851	US-2016-0094249-A1	9,608,672
723	P66303C	Active	United States	15/415,607	US-2017-0135036-A1	10,212,662
724	P66627	Active	United States	14/469,246	US-2016-0065330-A1	9,480,073
725	P66629	Active	United States	14/487,176	US-2016-0077188-A1	9,763,044
726	P66710	Active	United States	14/329,956	US-2016-0014563-A1	9,456,305
727	P66714	Active	United States	14/325,913	US-2016-0014490-A1	9,451,361
728	P66714C	Active	United States	15/243,310	US-2016-0359577-A1	10,205,548
729	P66716	Active	United States	14/320,012	US-2015-0382301-A1	9,439,147
730	P66717	Active	United States	14/329,444	US-2015-0319555-A1	9,426,749
731	P66723	Active	United States	14/335,346	US-2016-0021495-A1	9,538,321
732	P66724	Active	United States	14/319,822	US-2015-0319674-A1	9,538,356
733	P66724C	Active	United States	15/089,493	US-2016-0219507-A1	9,544,846
734	P66725	Active	United States	14/455,277	US-2016-0044443-A1	10,278,044
735	P66779	Active	United States	14/317,264	US-2015-0381594-A1	9,774,583
736	P66794	Active	United States	14/313,817	US-2015-0370298-A1	9,529,765
737	P66968US	Active	United States	14/649,104	US-2016-0260689-A1	10,211,182
738	P66983	Active	United States	14/458,000	US-2015-0139119-A1	9,544,914
739	P66983C	Active	United States	15/280,782	US-2017-0019916-A1	9,867,210
740	P66983C2	Active	United States	15/394,069	US-2017-0111154-A1	9,882,695
741	P66984US	Active	United States	15/023,262	US-2016-0242173-A1	9,961,678
742	P67010	Active	United States	14/671,220	US-2015-0312822-A1	10,111,145
743	P67549-C1	Active	United States	16/256,842	US-2019-0158158-A1	
744	P67627	Active	United States	14/491,525	US-2016-0085963-A1	9,529,997
745	P67658C	Active	United States	15/492,890	US-2017-0339715-A1	10,028,301
746	P67700	Active	United States	14/581,803	US-2015-0327114-A1	
747	P67700-C1	Active	United States	16/420,434	US-2019-0349219-A1	10,972,311
748	P67755	Active	United States	14/583,527	US-2015-0327105-A1	9,596,646
749	P67755C	Active	United States	15/457,755	US-2018-0035368-A1	10,278,121
750	P67782US	Active	United States	15/300,834	US-2017-0026867-A1	10,433,199
751	P67789US	Active	United States	15/023,581	US-2016-0211944-A1	9,838,961
752	P68340	Active	United States	14/578,045	US-2016-0183248-A1	10,231,232
753	P68542	Active	United States	14/472,409	US-2015-0350936-A1	9,763,115
754	P68542-C1	Active	United States	15/676,110	US-2018-0098231-A1	10,091,671
755	P68542-C2	Active	United States	16/120,370	US-2018-0376356-A1	10,341,886
756	P68620	Active	United States	14/578,016	US-2015-0351081-A1	9,712,272
757	P68620C	Active	United States	15/646,789	US-2018-0069644-A1	10,361,804
758	P68966	Active	United States	14/330,810	US-2016-0012828-A1	9,721,584
759	P69283	Active	United States	14/472,406	US-2015-0358995-A1	10,045,369
760	P69296	Active	United States	14/472,407	US-2015-0358800-A1	9,572,007
761	P69296C	Active	United States	15/390,595	US-2017-0111862-A1	10,271,277
762	P69296C2	Active	United States	15/392,143	US-2017-0111782-A1	10,200,950
763	P69380	Active	United States	14/486,148	US-2016-0077184-A1	10,078,126
764	P69569	Active	United States	14/497,688	US-2015-0381330-A1	9,455,810

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765	P69569C	Active	United States	15/228,137	US-2016-0345321-A1	9,743,406
766	P70070	Active	United States	14/494,182	US-2016-0088555-A1	9,736,773
767	P70074US	Active	United States	15/025,434	US-2016-0242205-A1	9,974,095
768	P70103	Active	United States	14/669,736	US-2015-0382374-A1	9,392,614
769	P70103C	Active	United States	15/185,890	US-2016-0295588-A1	9,730,220
770	P70103C2	Active	United States	15/669,355	US-2017-0339699-A1	10,568,097
771	P70203	Active	United States	14/499,036	US-2016-0095136-A1	9,578,653
772	P70250	Active	United States	14/490,115		9,231,602
773	P70251	Active	United States	14/832,342	US-2016-0094237-A1	9,438,259
774	P70338	Active	United States	14/671,840	US-2016-0044584-A1	9,871,568
775	P70417-D1	Active	United States	15/607,353	US-2017-0264457-A1	10,484,252
776	P70559	Active	United States	14/581,145	US-2016-0180345-A1	10,002,357
777	P70561	Active	United States	14/495,370	US-2016-0087486-A1	9,564,773
778	P70562	Active	United States	14/470,954	US-2016-0066342-A1	9,462,607
779	P70598	Active	United States	14/563,406	US-2016-0020885-A1	9,705,643
780	P70598C	Active	United States	15/644,937	US-2017-0359152-A1	10,348,457
781	P70599US	Active	United States	15/026,022	US-2016-0227572-A1	9,900,906
782	P70599US-C1	Active	United States	15/872,114	US-2018-0199368-A1	10,368,368
783	P70670	Active	United States	14/575,695		9,344,304
784	P70678	Active	United States	14/499,548	US-2016-0094186-A1	9,438,172
785	P70714US	Active	United States	15/126,555	US-2017-0086106-A1	10,219,190
786	P70865	Active	United States	14/667,430	US-2016-0037514-A1	9,820,247
787	P70865-C1	Active	United States	15/810,846	US-2018-0124728-A1	10,390,320
788	P70927	Active	United States	15/390,578	US-2018-0182726-A1	10,756,042
789	P71126	Active	United States	14/957,165	US-2016-0173253-A1	10,243,709
790	P71225	Active	United States	14/572,641	US-2016-0043937-A1	9,622,284
791	P71234US	Active	United States	15/324,246	US-2017-0201987-A1	10,602,511
792	P71235US	Active	United States	15/407,604	US-2017-0188320-A1	10,341,968
793	P71240US	Active	United States	15/502,180	US-2017-0230816-A1	10,306,452
794	P71426	Active	United States	14/572,048	US-2016-0050622-A1	10,034,240
795	P71430	Active	United States	14/573,223	US-2016-0037441-A1	9,602,319
796	P71432	Active	United States	14/572,351	US-2016-0050623-A1	9,591,569
797	P71585	Active	United States	14/583,034	US-2016-0191585-A1	10,812,546
798	P71585-C1	Active	United States	17/024,644	US-2021-0029181-A1	
799	P71589	Active	United States	14/573,912	US-2015-0288489-A1	9,680,603
800	P71591	Active	United States	14/579,865	US-2016-0056943-A1	9,871,644
801	P71591-C1	Active	United States	15/840,776	US-2018-0198591-A1	10,630,456
802	P71756	Active	United States	14/669,429	US-2016-0282443-A1	9,689,961
803	P71758	Active	United States	14/583,253	US-2016-0066324-A1	10,044,421
804	P73110	Active	United States	14/657,686	US-2016-0269860-A1	9,686,649
805	P73194	Active	United States	14/566,165	US-2016-0171883-A1	9,576,479
806	P73409	Active	United States	14/861,629	US-2016-0182049-A1	9,634,666
807	P73639	Active	United States	14/665,818	US-2016-0285567-A1	9,735,894
808	P73952US	Active	United States	15/507,199	US-2017-0251353-A1	10,681,525
809	P73969	Active	United States	14/671,872	US-2016-0099799-A1	10,158,473

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810	P73973	Active	United States	14/672,118	US-2016-0100403-A1	10,064,181
811	P74287-C1	Active	United States	15/722,878	US-2018-0123764-A1	10,153,887
812	P74589	Active	United States	14/579,778	US-2016-0112851-A1	9,877,174
813	P74589-C1	Active	United States	15/876,777	US-2018-0249303-A1	10,631,142
814	P74602	Active	United States	14/607,929	US-2016-0219422-A1	10,015,660
815	P74785US	Active	United States	15/507,708	US-2017-0257906-A1	10,129,925
816	P74928	Active	United States	14/573,111	US-2016-0119451-A1	9,602,635
817	P75245	Active	United States	14/751,551	US-2016-0128005-A1	9,838,232
818	P75245-C1	Active	United States	15/828,932	US-2018-0183644-A1	10,187,238
819	P75246	Active	United States	14/745,743	US-2016-0127909-A1	9,794,790
820	P76941	Active	United States	14/573,683	US-2016-0127992-A1	9,699,727
821	P77348	Active	United States	14/579,700	US-2016-0127948-A1	10,165,470
822	P77515	Active	United States	14/711,278	US-2016-0135055-A1	9,326,157
823	P77515C	Active	United States	15/085,340	US-2016-0309334-A1	9,788,212
824	P77515C-C1	Active	United States	15/728,029	US-2018-0035303-A1	10,219,164
825	P77589	Active	United States	14/634,228	US-2016-0253951-A1	10,269,291
826	P77611	Active	United States	14/635,607	US-2016-0259397-A1	9,696,775
827	P77885	Active	United States	14/669,810	US-2016-0164652-A1	10,396,952
828	P77886	Active	United States	14/671,489	US-2016-0165588-A1	9,706,534
829	P77886-C1	Active	United States	15/645,086		
830	P77895	Active	United States	15/042,252	US-2016-0277174-A1	10,122,522
831	P77897	Active	United States	14/670,471	US-2016-0286450-A1	9,565,608
832	P77902	Active	United States	14/668,515	US-2016-0285160-A1	9,537,210
833	P77927	Active	United States	14/645,116	US-2016-0270212-A1	9,526,163
834	P77992	Active	United States	14/670,924	US-2016-0165598-A1	9,924,510
835	P78032	Active	United States	14/669,966	US-2016-0173246-A1	10,014,994
836	P78044	Active	United States	14/751,793	US-2016-0380655-A1	9,735,812
837	P78169	Active	United States	14/635,564	US-2016-0261314-A1	9,461,716
838	P78220	Active	United States	14/871,899	US-2017-0094609-A1	9,629,101
839	P78305	Active	United States	14/671,228	US-2016-0286554-A1	10,064,180
840	P78308	Active	United States	14/668,691	US-2016-0286339-A1	9,774,985
841	P78309	Active	United States	14/670,853	US-2016-0286500-A1	9,480,025
842	P78350	Active	United States	14/752,451	US-2016-0381742-A1	
843	P78529	Active	United States	15/050,557	US-2016-0285536-A1	10,243,637
844	P78668	Active	United States	14/670,587	US-2016-0198327-A1	9,763,074
845	P78669	Active	United States	14/670,530	US-2016-0198494-A1	10,051,664
846	P78670	Active	United States	14/670,599	US-2016-0198328-A1	10,028,124
847	P78726	Active	United States	14/748,525	US-2016-0198429-A1	9,756,598
848	P78755	Active	United States	14/669,466	US-2016-0286542-A1	9,763,124
849	P78815	Active	United States	14/669,265	US-2016-0198445-A1	9,844,049
850	P78843	Active	United States	14/672,120	US-2016-0204898-A1	9,998,197
851	P78843-C1	Active	United States	15/637,848	US-2017-0302356-A1	10,038,490
852	P78922US	Active	United States	15/039,642	US-2017-0171764-A1	10,271,224
853	P79034PCT-US	Active	United States	15/778,410	US-2018-0342431-A1	10,651,102
854	P79160	Active	United States	14/670,621	US-2016-0212606-A1	9,602,998

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855	P79160C	Active	United States	15/392,112	US-2017-0111773-A1	9,913,109
856	P79168	Active	United States	14/671,350	US-2016-0212702-A1	9,854,520
857	P79168-C1	Active	United States	15/852,964	US-2018-0199286-A1	10,425,893
858	P79256	Active	United States	14/715,767	US-2016-0342407-A1	9,756,146
859	P79256-C1	Active	United States	15/696,030	US-2018-0124211-A1	10,375,209
860	P79324US	Active	United States	15/537,984	US-2017-0353925-A1	10,356,717
861	P79324US-C1	Active	United States	16/435,833	US-2019-0306795-A1	
862	P79391	Active	United States	14/751,089	US-2016-0212247-A1	9,806,927
863	P79391C	Active	United States	15/603,791	US-2017-0264413-A1	10,122,510
864	P79414	Active	United States	14/747,191	US-2016-0212001-A1	9,847,896
865	P79457	Active	United States	14/746,681	US-2016-0205625-A1	9,756,564
866	P79466US-C1	Active	United States	16/447,855	US-2019-0373662-A1	
867	P79514	Active	United States	14/751,092	US-2016-0219461-A1	9,883,531
868	P79605	Active	United States	14/748,286	US-2016-0219401-A1	9,723,439
869	P79605-C1	Active	United States	15/630,080	US-2018-0014153-A1	10,257,645
870	P79657	Active	United States	14/751,078	US-2016-0219573-A1	9,577,799
871	P79658	Active	United States	14/747,390	US-2016-0219130-A1	9,826,069
872	P79976	Active	United States	14/751,509	US-2016-0226638-A1	9,906,343
873	P79976-C1	Active	United States	15/905,218	US-2018-0287758-A1	10,659,206
874	P80018	Active	United States	14/993,358	US-2016-0316433-A1	10,440,650
875	P80021PCT-US	Active	United States	15/575,420	US-2018-0159704-A1	10,742,450
876	P80024	Active	United States	14/841,034	US-2017-0062897-A1	10,171,126
877	P80051	Active	United States	14/670,650	US-2016-0285173-A1	9,722,325
878	P80128	Active	United States	14/749,659	US-2016-0226622-A1	9,660,760
879	P80128C	Active	United States	15/494,770	US-2017-0317784-A1	10,432,347
880	P80128C-C1	Active	United States	16/543,889	US-2019-0372703-A1	
881	P80137	Active	United States	14/867,863	US-2016-0227565-A1	10,149,314
882	P80137-C1	Active	United States	15/942,061	US-2018-0227940-A1	10,390,359
883	P80194	Active	United States	14/752,740	US-2016-0219451-A1	9,832,756
884	P80194-C1	Active	United States	15/822,826	US-2018-0084528-A1	10,212,695
885	P80196	Active	United States	14/750,849	US-2016-0227578-A1	9,986,586
886	P80230	Active	United States	14/744,232	US-2016-0227579-A1	9,930,695
887	P80235	Active	United States	14/744,091	US-2016-0227537-A1	9,853,845
888	P80370	Active	United States	14/743,837	US-2016-0164654-A1	9,749,024
889	P80740	Active	United States	14/669,101	US-2016-0143005-A1	9,756,626
890	P80740-C1	Active	United States	15/678,818	US-2018-0070336-A1	10,448,384
891	P80745	Active	United States	14/670,090	US-2016-0286485-A1	10,080,191
892	P80748	Active	United States	14/669,150	US-2016-0286533-A1	9,729,284
893	P80751	Active	United States	14/671,174	US-2016-0143006-A1	9,699,807
894	P80751C	Active	United States	15/639,723	US-2018-0084575-A1	10,440,740
895	P80756	Active	United States	14/864,911	US-2016-0241411-A1	9,942,055
896	P80756-C1	Active	United States	15/925,538	US-2018-0309588-A1	10,608,832
897	P80757	Active	United States	14/748,251	US-2016-0241433-A1	9,872,234
898	P80757-C1	Active	United States	15/837,186	US-2018-0176857-A1	10,548,070
899	P80770-C1	Active	United States	16/193,940	US-2019-0182647-A1	10,708,746

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900	P80770-C1-C1	Active	United States	16/921,642		
901	P80927US	Active	United States	15/036,786	US-2016-0379747-A1	10,290,412
902	P80927US-D1	Active	United States	16/367,200	US-2019-0221349-A1	10,784,033
903	P80927US-D1-D1	Active	United States	16/993,152	US-2020-0381161-A1	
904	P81042	Active	United States	14/749,665	US-2016-0249349-A1	9,693,349
905	P81042-C1	Active	United States	15/602,305	US-2018-0014299-A1	10,182,437
906	P81054	Active	United States	14/672,113	US-2016-0285583-A1	9,722,726
907	P81153	Active	United States	14/752,899		9,432,969
908	P81344	Active	United States	14/748,545	US-2016-0381692-A1	10,244,546
909	P81344-C1	Active	United States	16/362,666	US-2019-0223189-A1	10,980,037
910	P81344-C2	Active	United States	17/201,948		
911	P81425	Active	United States	15/151,796	US-2016-0377728-A1	10,261,193
912	P81466	Active	United States	14/927,928	US-2016-0234877-A1	10,667,321
913	P81466-C1	Active	United States	16/828,518	US-2020-0229264-A1	10,986,692
914	P81770	Active	United States	14/998,211	US-2016-0255610-A1	9,955,469
915	P81770-C1	Active	United States	15/957,584	US-2018-0242293-A1	10,602,501
916	P82026	Active	United States	14/751,561	US-2016-0128074-A1	9,749,964
917	P82026C	Active	United States	15/675,475	US-2018-0041967-A1	10,142,942
918	P82049	Active	United States	14/721,854		9,478,308
919	P82049C	Active	United States	15/332,775	US-2017-0103789-A1	9,940,978
920	P82193	Active	United States	14/753,737	US-2016-0261451-A1	10,218,555
921	P82336	Active	United States	14/788,475	US-2017-0003713-A1	10,429,890
922	P82336-C1	Active	United States	16/459,903	US-2019-0369665-A1	10,802,540
923	P82336-C1-C1	Active	United States	17/015,252		
924	P82341	Active	United States	14/864,939	US-2016-0278107-A1	9,813,523
925	P82348	Active	United States	14/752,324	US-2016-0269930-A1	9,832,680
926	P82349	Active	United States	14/751,537	US-2016-0270069-A1	9,763,266
927	P82349-C1	Active	United States	15/668,191	US-2018-0132276-A1	10,321,479
928	P82416	Active	United States	14/752,721	US-2016-0269993-A1	10,231,182
929	P82427	Active	United States	14/859,023	US-2016-0269359-A1	9,930,009
930	P82427-C1	Active	United States	15/927,338	US-2018-0324142-A1	
931	P82695	Active	United States	14/757,953	US-2017-0099129-A1	10,841,822
932	P82782	Active	United States	14/752,103	US-2016-0381641-A1	9,674,788
933	P82795	Active	United States	14/753,529	US-2016-0381647-A1	9,900,852
934	P82840	Active	United States	14/752,250	US-2016-0295581-A1	9,788,317
935	P82934PCT-US	Active	United States	15/811,869	US-2018-0358990-A1	10,439,658
936	P82934PCT-US-C1	Active	United States	16/550,349	US-2020-0076456-A1	10,903,862
937	P82983	Active	United States	14/978,186	US-2017-0180386-A1	10,516,651
938	P83030	Active	United States	14/752,573	US-2016-0381637-A1	9,706,493
939	P83030-C1	Active	United States	15/647,159	US-2018-0132180-A1	10,349,354
940	P83077	Active	United States	14/744,541	US-2016-0374070-A1	9,883,529
941	P83078	Active	United States	14/749,160	US-2016-0381716-A1	9,913,298
942	P83078-C1	Active	United States	15/874,690	US-2018-0279410-A1	10,306,700
943	P83093PCT-US	Active	United States	15/743,142	US-2019-0109114-A1	10,622,333
944	P83093PCT-US-C1	Active	United States	16/818,961	US-2020-0219844-A1	10,872,881

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945	P83093PCT-US-C1-C1	Active	United States	17/076,433	US-2021-0035950-A1	
946	P83198	Active	United States	14/717,169	US-2016-0343677-A1	9,576,918
947	P83198D	Active	United States	15/427,984	US-2017-0148698-A1	10,229,858
948	P83343PCT-US	Active	United States	15/556,675	US-2018-0054245-A1	10,879,989
949	P83343PCT-US-C1	Active	United States	17/120,483		
950	P83343PCT-US-C1-C1	Active	United States	17/200,851		
951	P83456PCT-US	Active	United States	15/542,045	US-2017-0353942-A1	10,149,272
952	P83556	Active	United States	14/747,210	US-2016-0302232-A1	9,706,577
953	P83556C	Active	United States	15/644,949	US-2018-0077731-A1	10,375,738
954	P83642	Active	United States	14/742,397	US-2016-0373871-A1	9,565,505
955	P83686	Active	United States	14/998,220	US-2016-0309496-A1	10,080,184
956	P83687	Active	United States	14/757,949	US-2016-0309462-A1	10,091,811
957	P83687-C1	Active	United States	16/120,367	US-2019-0132864-A1	10,750,535
958	P83756	Active	United States	14/849,069	US-2016-0315738-A1	9,986,566
959	P83756-C1	Active	United States	15/967,794	US-2018-0310310-A1	10,257,833
960	P83757	Active	United States	14/861,501	US-2016-0316468-A1	9,894,653
961	P83757-C1	Active	United States	15/868,016	US-2018-0206233-A1	10,433,302
962	P83852	Active	United States	14/934,206	US-2017-0135125-A1	10,098,139
963	P83909	Active	United States	14/843,174		9,438,178
964	P83917	Active	United States	14/866,617	US-2017-0090537-A1	9,634,496
965	P83928	Active	United States	14/711,100	US-2016-0336782-A1	10,263,450
966	P83948	Active	United States	14/835,423	US-2016-0323848-A1	9,912,462
967	P84053	Active	United States	14/864,949	US-2016-0323755-A1	9,960,877
968	P84059	Active	United States	14/862,480	US-2016-0323807-A1	9,942,922
969	P84060	Active	United States	14/862,197	US-2016-0323879-A1	9,832,792
970	P84060-C1	Active	United States	15/822,317	US-2018-0167978-A1	10,299,295
971	P84067	Active	United States	14/857,087	US-2017-0084288-A1	10,242,689
972	P84079	Active	United States	14/748,587	US-2016-0323861-A1	9,876,544
973	P84079C	Active	United States	15/473,839	US-2017-0207833-A1	9,906,282
974	P84079C-C1	Active	United States	15/876,496	US-2018-0262240-A1	10,581,496
975	P84080	Active	United States	14/749,848	US-2016-0323058-A1	9,749,087
976	P84080C	Active	United States	15/584,158	US-2017-0302402-A1	9,985,740
977	P84080C-C1	Active	United States	15/960,102	US-2018-0248648-A1	10,250,355
978	P84084	Active	United States	14/748,572	US-2016-0323878-A1	9,655,112
979	P84084C	Active	United States	15/489,471	US-2017-0223571-A1	10,419,972
980	P84260	Active	United States	14/757,860	US-2016-0329999-A1	9,838,168
981	P84320	Active	United States	14/839,454	US-2017-0061955-A1	10,176,798
982	P84442	Active	United States	14/961,578	US-2017-0164220-A1	9,860,773
983	P84478	Active	United States	14/751,547	US-2016-0381726-A1	9,743,441
984	P84498	Active	United States	14/861,216		9,531,399
985	P84535	Active	United States	14/864,633	US-2016-0338061-A1	10,075,998
986	P84562	Active	United States	14/862,464	US-2017-0082724-A1	10,782,385
987	P84562-C1	Active	United States	17/027,546	US-2021-0055369-A1	
988	P84621	Active	United States	14/750,899	US-2016-0381664-A1	9,743,393
989	P84622	Active	United States	14/750,864	US-2016-0381709-A1	9,750,052

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990	P84624	Active	United States	14/748,791	US-2016-0381684-A1	9,935,737
991	P84640C-C1	Active	United States	15/980,271	US-2018-0263033-A1	
992	P84716	Active	United States	14/956,859	US-2017-0162314-A1	9,865,387
993	P84957US	Active	United States	15/029,066	US-2017-0168110-A1	10,082,534
994	P85016	Active	United States	14/866,537	US-2016-0344638-A1	10,164,888
995	P85026PCT-US	Active	United States	15/743,996	US-2018-0204831-A1	10,446,541
996	P85098PCT-US	Active	United States	15/757,444	US-2018-0270024-A1	10,615,943
997	P85121PCT-US	Active	United States	15/564,629	US-2018-0076857-A1	10,396,864
998	P85151PCT-US	Active	United States	15/567,330	US-2018-0091967-A1	10,362,473
999	P85154	Active	United States	14/934,739	US-2016-0345277-A1	9,999,010
1000	P85177	Active	United States	14/749,812	US-2016-0381572-A1	9,743,220
1001	P85199	Active	United States	14/998,372	US-2016-0352644-A1	9,985,901
1002	P85238	Active	United States	14/998,291	US-2016-0353322-A1	10,057,924
1003	P85244	Active	United States	14/862,202	US-2016-0353434-A1	9,930,660
1004	P85244-C1	Active	United States	15/868,218	US-2018-0184425-A1	10,405,311
1005	P85307	Active	United States	14/870,000	US-2017-0089967-A1	10,088,511
1006	P85308	Active	United States	14/926,819	US-2017-0123071-A1	10,795,026
1007	P85308-C1	Active	United States	17/009,233		
1008	P85464	Active	United States	14/860,842	US-2016-0360507-A1	9,955,459
1009	P85464-C1	Active	United States	15/957,852	US-2018-0376458-A1	10,631,273
1010	P85495	Active	United States	14/751,212	US-2016-0381148-A1	9,736,250
1011	P85631	Active	United States	14/929,094	US-2017-0126003-A1	10,630,075
1012	P85636PCT-US	Active	United States	15/568,746	US-2018-0152923-A1	10,841,910
1013	P85636PCT-US-C1	Active	United States	16/807,799	US-2020-0213982-A1	
1014	P85645PCT-US	Active	United States	15/568,981	US-2018-0132143-A1	10,257,753
1015	P85674-C1	Active	United States	17/129,019		
1016	P85676	Active	United States	14/817,830		9,536,409
1017	P85816	Active	United States	14/868,643	US-2016-0366644-A1	10,057,854
1018	P86128PCT-US	Active	United States	15/761,314	US-2018-0270016-A1	10,673,560
1019	P86128PCT-US-C1	Active	United States	16/854,348	US-2021-0006351-A1	
1020	P86163	Active	United States	14/839,510	US-2017-0062306-A1	10,121,726
1021	P86169PCT-US	Active	United States	15/748,475	US-2018-0218962-A1	10,347,558
1022	P86217	Active	United States	14/963,614	US-2016-0374100-A1	10,111,260
1023	P86217-C1	Active	United States	16/141,313	US-2019-0159270-A1	10,721,786
1024	P86230	Active	United States	14/866,886	US-2017-0033844-A1	9,942,060
1025	P86230-C1	Active	United States	15/948,291	US-2019-0081819-A1	10,547,473
1026	P86234	Active	United States	14/867,479	US-2017-0093605-A1	10,044,541
1027	P86235	Active	United States	14/851,786	US-2017-0079011-A1	9,913,266
1028	P86237	Active	United States	14/816,017	US-2017-0033848-A1	9,876,545
1029	P86260	Active	United States	14/866,167	US-2016-0330058-A1	10,389,563
1030	P86260C	Active	United States	14/978,933	US-2016-0330715-A1	10,419,258
1031	P86282	Active	United States	14/859,545	US-2017-0085406-A1	9,774,482
1032	P86295	Active	United States	14/864,963	US-2016-0330682-A1	9,924,457
1033	P86295-C1	Active	United States	15/911,611	US-2018-0332530-A1	10,341,948
1034	P86351	Active	United States	14/998,279	US-2016-0374107-A1	10,069,883

No.	Reference Number	Status	Country	Filing Number	Publication Number	Grant Number
1035	P86352	Active	United States	14/998,221	US-2016-0374011-A1	10,104,531
1036	P86352-C1	Active	United States	16/125,710	US-2019-0141512-A1	
1037	P86374	Active	United States	14/973,211	US-2016-0373257-A1	9,923,721
1038	P86552PCT-US	Active	United States	15/560,471	US-2018-0063869-A1	10,531,493
1039	P86604	Active	United States	15/353,775	US-2017-0179890-A1	10,122,324
1040	P86605	Active	United States	14/864,015	US-2017-0093464-A1	9,819,401
1041	P86635	Active	United States	14/869,372	US-2016-0381706-A1	10,034,304
1042	P86787	Active	United States	14/975,190	US-2017-0005846-A1	9,819,527
1043	P86789	Active	United States	14/973,577	US-2017-0006542-A1	9,942,843
1044	P86789-C1	Active	United States	15/913,207	US-2018-0262984-A1	10,455,499
1045	P86841	Active	United States	14/927,821	US-2017-0006661-A1	9,949,317
1046	P86841-C1	Active	United States	15/918,051	US-2018-0220488-A1	10,206,246
1047	P86892	Active	United States	14/757,969	US-2017-0013607-A1	9,913,217
1048	P86919PCT-US	Active	United States	15/573,153	US-2018-0109941-A1	10,548,000
1049	P86919PCT-US-C1	Active	United States	16/284,621	US-2019-0191295-A1	10,623,942
1050	P86919PCT-US-C1-C1	Active	United States	16/787,305	US-2020-0178061-A1	10,848,957
1051	P86923	Active	United States	14/979,266	US-2017-0013506-A1	10,084,635
1052	P86924	Active	United States	14/998,281	US-2017-0013092-A1	9,912,452
1053	P86924-C1	Active	United States	15/910,761	US-2018-0359062-A1	10,574,411
1054	P86926	Active	United States	14/866,357	US-2017-0093861-A1	10,652,716
1055	P86926-C1	Active	United States	16/814,817	US-2021-0037364-A1	
1056	P86933	Active	United States	14/861,566	US-2016-0323130-A1	10,090,964
1057	P86939	Active	United States	14/813,581	US-2017-0034823-A1	9,918,329
1058	P86939-C1	Active	United States	15/889,561	US-2018-0220435-A1	10,219,286
1059	P86944	Active	United States	14/927,854	US-2017-0012791-A1	9,912,489
1060	P86967	Active	United States	15/082,232	US-2017-0019722-A1	9,571,906
1061	P87107	Active	United States	15/274,416	US-2018-0088890-A1	10,095,461
1062	P87180-C1	Active	United States	16/239,202	US-2019-0159239-A1	10,721,761
1063	P87185PCT-US	Active	United States	15/752,263	US-2019-0028321-A1	10,237,113
1064	P87196	Active	United States	14/998,238		9,520,890
1065	P87209	Active	United States	14/757,859	US-2017-0026995-A1	10,383,138
1066	P87209-C1	Active	United States	16/537,253	US-2020-0163107-A1	
1067	P87285	Active	United States	14/757,981	US-2017-0026991-A1	10,149,313
1068	P87343	Active	United States	14/998,186	US-2017-0033963-A1	10,033,565
1069	P87365	Active	United States	14/998,245	US-2017-0034838-A1	10,009,774
1070	P87415	Active	United States	14/977,542	US-2017-0033850-A1	9,893,786
1071	P87416	Active	United States	14/975,602	US-2017-0033857-A1	10,014,924
1072	P87416-C1	Active	United States	16/025,814	US-2019-0173557-A1	10,790,895
1073	P87417	Active	United States	14/977,252	US-2017-0033909-A1	10,277,720
1074	P87417-C1	Active	United States	15/637,874	US-2017-0310420-A1	10,396,933
1075	P87417-C1-C1	Active	United States	16/551,034	US-2020-0195368-A1	
1076	P87425	Active	United States	14/868,834	US-2017-0093556-A1	9,819,479
1077	P87427	Active	United States	15/240,462	US-2017-0093422-A1	9,647,678
1078	P87430	Active	United States	14/861,132	US-2017-0085365-A1	9,735,952
1079	P87431PCT-US	Active	United States	15/752,261	US-2019-0028319-A1	10,374,861

No.	Reference Number	Status	Country	Filing Number	Publication Number	Grant Number
1080	P87431PCT-US-C1	Active	United States	16/508,411	US-2020-0014578-A1	10,904,066
1081	P87437	Active	United States	15/044,218	US-2017-0237301-A1	10,148,135
1082	P87446	Active	United States	15/199,445	US-2017-0033965-A1	10,117,181
1083	P87509PCT-US	Active	United States	15/777,237	US-2018-0359012-A1	10,498,417
1084	P87606	Active	United States	15/077,173	US-2017-0041926-A1	10,075,516
1085	P87606-C1	Active	United States	16/108,675	US-2019-0116223-A1	10,681,123
1086	P87612	Active	United States	14/998,261	US-2017-0184639-A1	10,024,889
1087	P87615	Active	United States	14/865,490	US-2017-0089765-A1	9,816,871
1088	P87615-C1	Active	United States	15/811,181	US-2018-0066999-A1	10,866,145
1089	P87615-C2	Active	United States	17/121,519		
1090	P87617	Active	United States	14/864,702	US-2017-0092337-A1	9,601,165
1091	P87617D	Active	United States	15/443,972	US-2017-0169870-A1	10,127,959
1092	P87628	Active	United States	15/088,932	US-2017-0048882-A1	9,998,263
1093	P87628-C1	Active	United States	16/005,267	US-2019-0044674-A1	10,785,000
1094	P87628-C1-C1	Active	United States	17/027,442		
1095	P87643PCT-US	Active	United States	15/741,283	US-2018-0206271-A1	10,383,151
1096	P87657PCT-US	Active	United States	15/741,284	US-2018-0242224-A1	
1097	P87707PCT-US	Active	United States	15/746,567	US-2018-0227828-A1	10,869,257
1098	P87827	Active	United States	14/977,417	US-2017-0006635-A1	9,942,920
1099	P87827-C1	Active	United States	15/906,190	US-2018-0255581-A1	10,420,145
1100	P87835	Active	United States	15/283,143	US-2018-0096952-A1	10,325,861
1101	P88012PCT-US	Active	United States	15/751,146	US-2018-0241602-A1	10,778,486
1102	P88041	Active	United States	14/979,185	US-2017-0180014-A1	10,122,420
1103	P88124	Active	United States	14/971,422	US-2017-0063562-A1	9,893,906
1104	P88125	Active	United States	15/080,638	US-2017-0064684-A1	10,512,074
1105	P88183PCT-US	Active	United States	15/777,725	US-2018-0351610-A1	10,404,333
1106	P88191	Active	United States	15/352,829	US-2017-0181218-A1	10,292,201
1107	P88260	Active	United States	15/086,104	US-2017-0064505-A1	9,763,046
1108	P88261	Active	United States	15/086,108	US-2017-0064575-A1	10,009,430
1109	P88389	Active	United States	14/977,998	US-2017-0176524-A1	9,995,789
1110	P88528	Active	United States	14/757,819	US-2017-0187093-A1	10,205,217
1111	P88533	Active	United States	15/352,743	US-2017-0179887-A1	10,348,247
1112	P88533-C1	Active	United States	16/503,253	US-2020-0044610-A1	10,812,022
1113	P88533-C1-C1	Active	United States	17/030,653		
1114	P88535	Active	United States	14/952,903		9,577,684
1115	P88907	Active	United States	14/974,039	US-2017-0177870-A1	10,152,599
1116	P88919	Active	United States	14/977,341		9,559,719
1117	P88961PCT-US-C1	Active	United States	16/408,450	US-2019-0334606-A1	
1118	P89000	Active	United States	14/998,213	US-2017-0070943-A1	10,271,263
1119	P89024PCT-US	Active	United States	15/776,474	US-2018-0331053-A1	10,522,485
1120	P89273PCT-US	Active	United States	15/775,935	US-2018-0375951-A1	10,609,171
1121	P89273PCT-US-C1	Active	United States	16/829,810	US-2020-0296183-A1	
1122	P89289	Active	United States	14/976,351	US-2017-0078891-A1	10,356,624
1123	P89293	Active	United States	14/972,541	US-2017-0071009-A1	9,924,540
1124	P89293-C1	Active	United States	15/890,792	US-2018-0213565-A1	10,244,555

No.	Reference Number	Status	Country	Filing Number	Publication Number	Grant Number
1125	P89417PCT-US	Active	United States	15/751,276	US-2018-0241509-A1	10,554,340
1126	P89432PCT-US	Active	United States	15/750,782	US-2018-0227153-A1	10,511,468
1127	P89467	Active	United States	14/969,506	US-2017-0078008-A1	9,893,785
1128	P89467-C1	Active	United States	15/870,060	US-2018-0198508-A1	10,439,694
1129	P89467-C1-C1	Active	United States	16/563,773	US-2020-0076489-A1	
1130	P89550	Active	United States	14/975,685	US-2017-0176523-A1	9,989,592
1131	P89550-C1	Active	United States	15/980,409	US-2018-0328987-A1	10,845,413
1132	P89550-C1-C1	Active	United States	17/085,511	US-2021-0048476-A1	
1133	P89634	Active	United States	15/357,478	US-2017-0187564-A1	10,122,566
1134	P89642	Active	United States	15/357,797	US-2017-0181168-A1	10,306,634
1135	P89644	Active	United States	14/963,383	US-2017-0171069-A1	10,021,595
1136	P89645	Active	United States	14/956,415	US-2017-0164225-A1	10,098,029
1137	P89648	Active	United States	15/355,139	US-2017-0181198-A1	10,154,536
1138	P89718PCT-US	Active	United States	15/774,906	US-2018-0331070-A1	
1139	P89780	Active	United States	14/969,189	US-2017-0171810-A1	9,924,458
1140	P89790	Active	United States	14/950,670	US-2017-0148444-A1	9,792,907
1141	P89790-C1	Active	United States	15/786,089	US-2018-0261218-A1	10,325,594
1142	P89790-C1-C1	Active	United States	16/418,750	US-2019-0371326-A1	10,937,426
1143	P89790-C1-C2	Active	United States	17/190,142		
1144	P89840	Active	United States	14/953,644	US-2017-0153896-A1	10,191,748
1145	P89887	Active	United States	14/979,280	US-2016-0373961-A1	9,930,692
1146	P89929PCT-US	Active	United States	15/776,051	US-2018-0358317-A1	10,672,731
1147	P89929PCT-US-C1	Active	United States	16/871,325	US-2020-0273832-A1	
1148	P89931PCT-US	Active	United States	15/776,378	US-2020-0176436-A1	10,854,590
1149	P90001	Active	United States	14/757,958	US-2017-0185435-A1	10,437,623
1150	P90036	Active	United States	15/437,621	US-2017-0288448-A1	
1151	P90058US	Active	United States	15/513,523	US-2017-0317735-A1	10,193,613
1152	P90092PCT-US	Active	United States	15/752,481	US-2018-0255576-A1	10,462,819
1153	P90092PCT-US-C1	Active	United States	16/523,794	US-2020-0022183-A1	10,798,741
1154	P90092PCT-US-C1-C1	Active	United States	16/861,541	US-2020-0260489-A1	
1155	P90095PCT-US	Active	United States	15/776,475	US-2018-0331080-A1	10,403,609
1156	P90175	Active	United States	15/085,945	US-2017-0115344-A1	10,054,636
1157	P90175-C1	Active	United States	16/105,748	US-2019-0219634-A1	10,718,812
1158	P90175-C1-C1	Active	United States	16/947,084	US-2020-0348360-A1	
1159	P90239	Active	United States	14/979,322	US-2017-0177342-A1	10,007,519
1160	P90239-C1	Active	United States	16/010,908	US-2019-0026109-A1	10,705,845
1161	P90395	Active	United States	14/964,494		9,543,224
1162	P90400PCT-US	Active	United States	15/772,730	US-2019-0206833-A1	
1163	P90597	Active	United States	14/970,355	US-2017-0170111-A1	10,115,668
1164	P90597-D1	Active	United States	16/152,221	US-2019-0043800-A1	10,553,538
1165	P90640	Active	United States	14/976,038	US-2017-0181043-A1	10,219,187
1166	P90642	Active	United States	15/354,010	US-2017-0181111-A1	10,206,191
1167	P90649	Active	United States	15/089,514	US-2017-0289798-A1	9,924,358
1168	P90665	Active	United States	15/088,689	US-2017-0289778-A1	9,820,115
1169	P90689	Active	United States	14/972,890	US-2017-0105140-A1	9,967,773

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1170	P90739	Active	United States	14/998,130	US-2017-0105215-A1	10,123,329
1171	P91014	Active	United States	14/757,816	US-2017-0111205-A1	10,075,323
1172	P91205	Active	United States	14/973,217	US-2017-0111875-A1	9,883,473
1173	P91261	Active	United States	14/978,293	US-2017-0111139-A1	9,847,849
1174	P91261-C1	Active	United States	15/832,201	US-2018-0287732-A1	10,313,051
1175	P91360PCT-US	Active	United States	16/063,145	US-2018-0374819-A1	10,490,527
1176	P91404	Active	United States	14/973,994	US-2017-0180164-A1	9,742,598
1177	P91406	Active	United States	15/355,448	US-2017-0180093-A1	10,171,213
1178	P91412PCT-US	Active	United States	15/776,803	US-2018-0376415-A1	
1179	P91412PCT-US-C1	Active	United States	17/131,927		
1180	P91433	Active	United States	15/352,696	US-2017-0180024-A1	10,187,132
1181	P91441	Active	United States	14/757,921	US-2017-0188241-A1	9,973,933
1182	P91510	Active	United States	14/977,671	US-2017-0178707-A1	9,824,737
1183	P91510-C1	Active	United States	15/812,935	US-2018-0226114-A1	10,347,312
1184	P91578	Active	United States	15/078,677	US-2017-0118764-A1	10,057,908
1185	P91603	Active	United States	15/084,903	US-2017-0118773-A1	10,917,913
1186	P91603-C1	Active	United States	17/120,451		
1187	P91604	Active	United States	15/088,591	US-2017-0118774-A1	10,028,303
1188	P91616	Active	United States	15/082,088	US-2017-0279306-A1	9,985,481
1189	P91629	Active	United States	14/974,887	US-2017-0179729-A1	10,103,585
1190	P91705PCT-US-C1	Active	United States	16/656,967	US-2020-0080224-A1	
1191	P92075	Active	United States	15/086,033	US-2017-0287202-A1	10,043,303
1192	P92075-C1	Active	United States	16/024,042	US-2018-0308273-A1	10,504,275
1193	P92093	Active	United States	14/757,668	US-2017-0187830-A1	10,237,369
1194	P92291	Active	United States	15/086,113	US-2017-0127386-A1	10,225,828
1195	P92397PCT-US	Active	United States	16/060,918	US-2019-0363052-A1	10,903,166
1196	P92467	Active	United States	15/083,603	US-2017-0127412-A1	10,200,964
1197	P92467-C1	Active	United States	16/227,321	US-2019-0182791-A1	10,701,660
1198	P92467-C1-C1	Active	United States	16/895,347	US-2020-0305110-A1	
1199	P92765PCT-US-C1	Active	United States	16/797,496	US-2020-0196352-A1	
1200	P92862PCT-US	Active	United States	16/064,082	US-2019-0004866-A1	10,831,556
1201	P92873PCT-US	Active	United States	15/771,253	US-2018-0343047-A1	10,560,174
1202	P93107	Active	United States	15/270,726	US-2018-0081835-A1	10,324,872
1203	P93391	Active	United States	14/973,224	US-2017-0181073-A1	10,057,846
1204	P93401	Active	United States	14/757,738	US-2017-0188202-A1	10,027,385
1205	P93401-C1	Active	United States	16/009,191	US-2019-0068251-A1	10,581,493
1206	P93401-C1-C1	Active	United States	16/806,811	US-2021-0028825-A1	
1207	P93404	Active	United States	14/757,667	US-2017-0187437-A1	10,027,393
1208	P93421PCT-US	Active	United States	15/768,498	US-2018-0324826-A1	10,652,910
1209	P93421PCT-US-C1	Active	United States	16/408,071	US-2019-0342900-A1	
1210	P93571	Active	United States	14/976,271		9,614,708
1211	P93701	Active	United States	15/352,896	US-2017-0181219-A1	10,219,315
1212	P93707	Active	United States	14/977,010	US-2017-0181133-A1	10,244,519
1213	P93708	Active	United States	14/757,821	US-2017-0187562-A1	9,722,845
1214	P93709	Active	United States	14/998,243	US-2017-0188310-A1	10,064,139

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1215	P94213	Active	United States	14/976,928	US-2017-0085306-A1	10,256,878
1216	P94213-C1	Active	United States	16/268,760	US-2019-0238194-A1	10,554,268
1217	P94502	Active	United States	15/630,368	US-2018-0375602-A1	10,868,622
1218	P94714	Active	United States	15/200,154	US-2018-0005535-A1	10,049,587
1219	P94740	Active	United States	15/062,143	US-2017-0256480-A1	10,741,486
1220	P94742	Active	United States	15/087,477	US-2017-0284636-A1	10,411,000
1221	P94773PCT-US	Active	United States	16/072,262	US-2019-0035749-A1	10,566,298
1222	P94773PCT-US-C1	Active	United States	16/788,515	US-2020-0185342-A1	
1223	P94813	Active	United States	15/609,042	US-2018-0006616-A1	10,164,584
1224	P94907	Active	United States	15/279,463	US-2018-0092135-A1	10,271,376
1225	P94921PCT-US	Active	United States	16/079,433	US-2019-0053186-A1	10,779,253
1226	P94921PCT-US-C1	Active	United States	17/011,083		
1227	P94925	Active	United States	14/973,528	US-2017-0006541-A1	10,009,841
1228	P94925-C1	Active	United States	15/988,390	US-2018-0317166-A1	10,524,203
1229	P94930	Active	United States	15/378,937	US-2017-0170939-A1	10,148,404
1230	P94972	Active	United States	14/998,241	US-2017-0013411-A1	9,906,916
1231	P95093	Active	United States	15/088,636	US-2017-0288741-A1	10,148,322
1232	P95105-C1	Active	United States	16/237,994	US-2019-0306794-A1	
1233	P95109	Active	United States	15/088,478	US-2017-0290011-A1	10,698,079
1234	P95151	Active	United States	15/193,710	US-2017-0373495-A1	10,135,240
1235	P95151-C1	Active	United States	16/195,616	US-2019-0356129-A1	10,637,236
1236	P95155	Active	United States	15/073,950	US-2017-0271322-A1	10,332,871
1237	P95184-C1	Active	United States	15/904,978	US-2018-0191409-A1	10,972,157
1238	P95186	Active	United States	15/200,022	US-2017-0201992-A1	10,085,261
1239	P95186-C1	Active	United States	16/112,725	US-2019-0116595-A1	10,772,098
1240	P95186-C1-C1	Active	United States	16/250,232	US-2019-0150154-A1	10,681,699
1241	P95251	Active	United States	15/087,489	US-2017-0208531-A1	10,194,370
1242	P95300	Active	United States	15/200,448	US-2017-0201981-A1	10,200,989
1243	P95300-C1	Active	United States	16/224,183	US-2019-0254070-A1	10,609,732
1244	P95300-C1-C1	Active	United States	16/835,951	US-2020-0229233-A1	
1245	P95301	Active	United States	15/084,848	US-2017-0202011-A1	9,992,741
1246	P95301-C1	Active	United States	15/969,330	US-2018-0324695-A1	10,531,381
1247	P95317	Active	United States	15/080,808	US-2017-0070930-A1	9,949,186
1248	P95346	Active	United States	15/088,976	US-2017-0289253-A1	10,862,968
1249	P95346-C1	Active	United States	17/113,849		
1250	P95347	Active	United States	15/082,084	US-2017-0280279-A1	10,390,172
1251	P95347-C1	Active	United States	16/502,405	US-2020-0021947-A1	10,616,722
1252	P95347-C2	Active	United States	16/840,206	US-2021-0058743-A1	
1253	P95374	Active	United States	15/089,524	US-2017-0285280-A1	10,209,466
1254	P95374-D1	Active	United States	16/182,450	US-2019-0072732-A1	10,816,742
1255	P95375PCT-US	Active	United States	16/090,024	US-2019-0121041-A1	
1256	P95446	Active	United States	15/200,026	US-2017-0215221-A1	10,123,375
1257	P95447	Active	United States	15/086,972	US-2017-0212204-A1	10,393,850
1258	P95505	Active	United States	15/201,445	US-2018-0007692-A1	10,448,397
1259	P95613	Active	United States	15/395,504	US-2018-0191489-A1	10,181,856

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1260	P95613-C1	Active	United States	16/170,716	US-2019-0068200-A1	10,680,619
1261	P95619PCT-US	Active	United States	16/077,087	US-2019-0052279-A1	10,707,880
1262	P95632PCT-US	Active	United States	16/081,586	US-2019-0068304-A1	10,530,504
1263	P95690	Active	United States	15/279,907	US-2017-0201956-A1	10,178,634
1264	P95690-C1	Active	United States	16/178,168	US-2019-0208484-A1	10,986,594
1265	P95691	Active	United States	15/168,871	US-2017-0215131-A1	10,117,161
1266	P95691-C1	Active	United States	16/145,684	US-2019-0132788-A1	10,681,622
1267	P95736	Active	United States	15/199,495	US-2018-0004245-A1	10,942,542
1268	P95919	Active	United States	15/281,093	US-2017-0223587-A1	10,212,630
1269	P96000	Active	United States	15/382,128	US-2017-0230837-A1	10,201,037
1270	P96000-C1	Active	United States	16/218,208	US-2019-0239278-A1	10,750,571
1271	P96048PCT-US	Active	United States	16/069,149	US-2019-0045428-A1	10,764,817
1272	P96123	Active	United States	15/197,317	US-2017-0238310-A1	10,181,996
1273	P96123-C1	Active	United States	16/223,006	US-2019-0230020-A1	10,624,124
1274	P96175PCT-US	Active	United States	16/074,398	US-2020-0281021-A1	
1275	P96198	Active	United States	15/201,016	US-2018-0005633-A1	10,043,521
1276	P96234	Active	United States	15/087,389	US-2017-0289274-A1	10,057,357
1277	P96368	Active	United States	15/198,322	US-2017-0245203-A1	10,368,298
1278	P96371	Active	United States	15/392,574	US-2017-0245261-A1	10,321,486
1279	P96371-C1	Active	United States	16/399,397	US-2019-0364597-A1	10,863,544
1280	P96447	Active	United States	15/178,624	US-2017-0358866-A1	10,637,154
1281	P96459	Active	United States	15/497,764	US-2017-0353586-A1	10,440,158
1282	P96459-C1	Active	United States	16/549,696	US-2020-0053191-A1	
1283	P96462	Active	United States	15/194,233	US-2017-0245120-A1	10,455,369
1284	P96463	Active	United States	15/194,257	US-2017-0245296-A1	10,098,135
1285	P96568	Active	United States	15/199,563	US-2017-0215087-A1	10,362,447
1286	P96569	Active	United States	15/280,486	US-2017-0257887-A1	10,178,694
1287	P96585PCT-US	Active	United States	16/072,217	US-2019-0075526-A1	10,524,213
1288	P96701	Active	United States	15/200,485	US-2017-0257196-A1	10,128,989
1289	P96701-C1	Active	United States	16/172,025	US-2019-0173625-A1	10,574,402
1290	P96721	Active	United States	15/201,184	US-2018-0005395-A1	10,121,258
1291	P96776	Active	United States	15/199,744	US-2018-0006479-A1	10,476,287
1292	P96786	Active	United States	15/199,485	US-2017-0257900-A1	10,299,302
1293	P96819	Active	United States	15/584,076	US-2017-0353163-A1	10,177,719
1294	P96824PCT-US	Active	United States	16/306,012	US-2019-0215029-A1	10,784,919
1295	P96824PCT-US-C1	Active	United States	17/026,383		
1296	P96858	Active	United States	15/253,470	US-2018-0004419-A1	10,606,520
1297	P96931	Active	United States	15/282,749	US-2017-0257859-A1	10,397,024
1298	P96931-C1	Active	United States	16/513,385	US-2020-0014564-A1	10,979,250
1299	P96985	Active	United States	15/272,286	US-2017-0265129-A1	10,009,840
1300	P96985-C1	Active	United States	15/915,950	US-2018-0199283-A1	10,405,273
1301	P96993	Active	United States	15/198,491	US-2018-0004273-A1	9,946,325
1302	P96993-C1	Active	United States	15/954,284	US-2019-0064915-A1	10,627,886
1303	P97111	Active	United States	15/281,090	US-2017-0295550-A1	10,129,841
1304	P97160	Active	United States	15/281,096	US-2017-0265122-A1	10,045,280

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1305	P97165	Active	United States	15/199,564	US-2018-0006620-A1	9,859,856
1306	P97165-C1	Active	United States	15/860,554	US-2018-0198426-A1	10,594,277
1307	P97168	Active	United States	15/279,174	US-2018-0091256-A1	10,135,563
1308	P97169	Active	United States	15/199,636	US-2018-0006866-A1	10,230,561
1309	P97178PCT-US	Active	United States	16/306,833	US-2019-0139915-A1	10,756,033
1310	P97182	Active	United States	15/197,383	US-2018-0007581-A1	10,182,369
1311	P97184	Active	United States	15/199,588	US-2018-0006688-A1	9,866,291
1312	P97184-C1	Active	United States	15/863,945	US-2018-0262239-A1	10,243,630
1313	P97185	Active	United States	15/197,167	US-2018-0006379-A1	10,251,072
1314	P97186	Active	United States	15/199,615	US-2018-0006705-A1	10,218,824
1315	P97207PCT-US	Active	United States	16/078,291	US-2019-0053222-A1	10,798,687
1316	P97217	Active	United States	15/199,468	US-2018-0007607-A1	10,034,218
1317	P97245	Active	United States	15/201,053	US-2018-0006854-A1	10,187,235
1318	P97250	Active	United States	15/608,576	US-2018-0007631-A1	10,327,209
1319	P97281	Active	United States	15/182,701	US-2017-0367085-A1	10,104,671
1320	P97282	Active	United States	15/201,401	US-2018-0007729-A1	10,314,099
1321	P97283	Active	United States	15/200,077	US-2018-0007664-A1	10,051,618
1322	P97294PCT-US	Active	United States	16/078,497	US-2019-0098524-A1	
1323	P97399	Active	United States	15/170,005	US-2017-0353885-A1	10,743,210
1324	P97472PCT-US	Active	United States	16/093,198	US-2019-0132089-A1	10,880,047
1325	P97569	Active	United States	15/199,434	US-2018-0005991-A1	10,186,499
1326	P97569-D1	Active	United States	16/215,449	US-2019-0109120-A1	10,714,455
1327	P97607PCT-US	Active	United States	16/080,826	US-2019-0098661-A1	10,893,548
1328	P97628PCT-US	Active	United States	16/088,634	US-2020-0305225-A1	
1329	P97790	Active	United States	15/279,695	US-2017-0288838-A1	10,200,147
1330	P97852	Active	United States	15/609,041	US-2018-0006606-A1	10,044,322
1331	P97855	Active	United States	15/200,495		9,806,759
1332	P97857	Active	United States	15/251,142		9,755,872
1333	P97902	Active	United States	15/281,098	US-2017-0295004-A1	10,230,504
1334	P97902-C1	Active	United States	16/274,555	US-2019-0280832-A1	10,615,929
1335	P97903	Active	United States	15/281,105	US-2017-0295558-A1	10,209,340
1336	P98005PCT-US	Active	United States	16/097,000	US-2020-0326959-A1	
1337	P98040PCT-US	Active	United States	16/083,264	US-2019-0029073-A1	10,785,828
1338	P98128PCT-US	Active	United States	16/074,393	US-2020-0274666-A1	
1339	P98133	Active	United States	15/282,340	US-2017-0303313-A1	10,172,164
1340	P98320PCT-US	Active	United States	16/307,393	US-2019-0260707-A1	
1341	P98359	Active	United States	15/278,449	US-2017-0302510-A1	10,199,720
1342	P98360	Active	United States	15/392,382	US-2017-0303328-A1	
1343	P98392	Active	United States	15/205,023	US-2018-0014268-A1	10,104,630
1344	P98425PCT-US	Active	United States	16/087,092		
1345	P98452	Active	United States	15/199,578		9,761,284
1346	P98521	Active	United States	15/279,901	US-2017-0311260-A1	9,872,251
1347	P98521-C1	Active	United States	15/870,396	US-2018-0324698-A1	10,187,854
1348	P98522	Active	United States	15/392,771	US-2017-0310610-A1	10,367,761
1349	P98522-C1	Active	United States	16/450,436	US-2019-0386933-A1	

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1350	P98551	Active	United States	15/199,780	US-2018-0004598-A1	10,504,608
1351	P98577PCT-US	Active	United States	16/088,261	US-2020-0304985-A1	
1352	P98598	Active	United States	15/280,630	US-2017-0317852-A1	10,505,765
1353	P98598-C1	Active	United States	16/684,908	US-2020-0145259-A1	
1354	P98777	Active	United States	15/260,021	US-2018-0068653-A1	10,403,268
1355	P98805	Active	United States	15/282,522	US-2017-0325222-A1	10,129,876
1356	P98806	Active	United States	15/280,635	US-2017-0324461-A1	10,075,224
1357	P98806-C1	Active	United States	16/043,744	US-2019-0089440-A1	10,530,452
1358	P98807	Active	United States	15/279,914	US-2017-0324599-A1	10,587,442
1359	P98827	Active	United States	15/225,527	US-2018-0034134-A1	10,186,756
1360	P98857PCT-US	Active	United States	16/094,191	US-2019-0141679-A1	10,595,309
1361	P98861PCT-US	Active	United States	16/311,877	US-2019-0205237-A1	
1362	P98863	Active	United States	15/195,303	US-2017-0371775-A1	10,642,724
1363	P98864EP-PCT-US	Active	United States	16/320,286	US-2019-0273673-A1	
1364	P98910PCT-US	Active	United States	16/325,970	US-2019-0214369-A1	
1365	P98932	Active	United States	15/280,809	US-2018-0090140-A1	10,147,423
1366	P98932-C1	Active	United States	16/209,332	US-2019-0348036-A1	
1367	P98935-PCT-US	Active	United States	16/333,476	US-2019-0265063-A1	
1368	P98957	Active	United States	15/195,165	US-2017-0373767-A1	10,056,988
1369	P99076	Active	United States	15/280,419	US-2017-0331734-A1	10,122,628
1370	P99077	Active	United States	15/386,925	US-2017-0331697-A1	10,039,115
1371	P99077-C1	Active	United States	16/032,729	US-2019-0014580-A1	10,524,269
1372	P99097PCT-US	Active	United States	16/094,819	US-2019-0124546-A1	10,779,187
1373	P99099PCT-US	Active	United States	16/099,004	US-2019-0200228-A1	
1374	P99239PCT-US	Active	United States	16/092,858	US-2019-0166017-A1	
1375	P99242PCT-US	Active	United States	16/088,913	US-2019-0116549-A1	
1376	P99274PCT-US	Active	United States	16/095,667	US-2019-0150155-A1	
1377	P99501PCT-US-C1	Active	United States	16/945,523	US-2020-0367283-A1	
1378	P99516	Active	United States	15/279,010	US-2018-0091201-A1	10,524,136
1379	P99613	Active	United States	15/193,374	US-2017-0373903-A1	9,973,364
1380	P99651	Active	United States	15/200,288	US-2018-0007042-A1	
1381	P99665	Active	United States	15/282,633	US-2018-0092443-A1	10,228,725
1382	P99699	Active	United States	15/251,180	US-2018-0061117-A1	10,438,318
1383	P99703	Active	United States	15/229,550	US-2018-0040096-A1	10,229,470
1384	P99703-C1	Active	United States	16/255,721	US-2020-0134776-A1	
1385	P99727PCT-US	Active	United States	16/093,019	US-2019-0159054-A1	11,006,304
1386	P99735US	Active	United States	15/619,823	US-2018-0159668-A1	10,530,539
1387	P99825PCT-US	Active	United States	16/095,740	US-2020-0280965-A1	
1388	P99866PCT-US	Active	United States	16/097,604	US-2019-0158331-A1	10,461,979
1389	P99985PCT-US	Active	United States	16/343,961	US-2020-0068711-A1	
1390	AA0010-Z	Inactive	United States	62/558,875		
1391	AA0234-Z	Inactive	United States	62/421,370		
1392	AA0235-Z	Inactive	United States	62/421,372		
1393	AA0236-Z	Inactive	United States	62/421,371		
1394	AA0237-Z	Inactive	United States	62/421,928		

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1395	AA1048-US-C1	Inactive	United States	16/844,618		
1396	AA1443-US	Inactive	United States	15/857,659	US-2019-0041872-A1	
1397	AA1589-Z	Inactive	United States	62/596,586		
1398	AA1836-US	Inactive	United States	15/805,953	US-2019-0041856-A1	
1399	AA2685-Z	Inactive	United States	62/540,424		
1400	AA2689-Z	Inactive	United States	62/540,950		
1401	AA2702-Z	Inactive	United States	62/540,846		
1402	AA2709-Z	Inactive	United States	62/540,446		
1403	AA2716-Z	Inactive	United States	62/540,987		
1404	AA2717-Z	Inactive	United States	62/589,974		
1405	AA2724-Z	Inactive	United States	62/593,169		
1406	AA2725-Z	Inactive	United States	62/542,586		
1407	AA2726-Z	Inactive	United States	62/542,630		
1408	AA2730-Z	Inactive	United States	62/540,421		
1409	AA2756-Z	Inactive	United States	62/542,466		
1410	AA2757-Z	Inactive	United States	62/542,367		
1411	AA2764-Z	Inactive	United States	62/544,281		
1412	AA2777-Z	Inactive	United States	62/542,671		
1413	AA2790-Z	Inactive	United States	62/542,688		
1414	AA2798-Z	Inactive	United States	62/543,864		
1415	AA2824-Z	Inactive	United States	62/544,366		
1416	AA2827-Z	Inactive	United States	62/543,031		
1417	AA2829-Z	Inactive	United States	62/543,074		
1418	AA2847-Z	Inactive	United States	62/543,566		
1419	AA2867-Z	Inactive	United States	62/543,862		
1420	AA2875-Z	Inactive	United States	62/543,191		
1421	AA2881-Z	Inactive	United States	62/543,647		
1422	AA2885-Z	Inactive	United States	62/557,379		
1423	AA2889-Z	Inactive	United States	62/553,110		
1424	AA2891-Z	Inactive	United States	62/543,714		
1425	AA2895-Z	Inactive	United States	62/543,025		
1426	AA2908-Z	Inactive	United States	62/542,701		
1427	AA2910-Z	Inactive	United States	62/544,278		
1428	AA2931-Z	Inactive	United States	62/543,194		
1429	AA2942-Z	Inactive	United States	62/547,599		
1430	AA2954-Z	Inactive	United States	62/543,716		
1431	AA2963-Z	Inactive	United States	62/544,285		
1432	AA2964-Z	Inactive	United States	62/546,530		
1433	AA2966-Z	Inactive	United States	62/544,274		
1434	AA2977-Z	Inactive	United States	62/544,276		
1435	AA2985-Z	Inactive	United States	62/544,621		
1436	AA2988-Z	Inactive	United States	62/544,623		
1437	AA3033-Z	Inactive	United States	62/543,719		
1438	AA3086-Z	Inactive	United States	62/544,522		
1439	AA3087-Z	Inactive	United States	62/543,866		

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1440	AA3136-Z	Inactive	United States	62/544,628		
1441	AA3138-Z	Inactive	United States	62/545,202		
1442	AA3141-Z	Inactive	United States	62/544,505		
1443	AA3191-Z	Inactive	United States	62/544,636		
1444	AA3193-Z	Inactive	United States	62/638,596		
1445	AA3194-Z	Inactive	United States	62/544,516		
1446	AA3198-Z	Inactive	United States	62/546,833		
1447	AA3214-Z	Inactive	United States	62/545,312		
1448	AA3216-Z	Inactive	United States	62/544,633		
1449	AA3229-Z	Inactive	United States	62/569,857		
1450	AA3234-Z	Inactive	United States	62/545,835		
1451	AA3235-Z	Inactive	United States	62/545,235		
1452	AA3246-Z	Inactive	United States	62/545,838		
1453	AA3247-Z	Inactive	United States	62/545,860		
1454	AA3256-Z	Inactive	United States	62/547,689		
1455	AA3274-Z	Inactive	United States	62/547,304		
1456	AA3285-Z	Inactive	United States	62/551,058		
1457	AA3287-Z	Inactive	United States	62/547,634		
1458	AA3297-Z	Inactive	United States	62/644,099		
1459	AA3304-Z	Inactive	United States	62/546,870		
1460	AA3308-Z	Inactive	United States	62/548,011		
1461	AA3313-Z	Inactive	United States	62/644,094		
1462	AA3319-Z	Inactive	United States	62/547,982		
1463	AA3324-Z	Inactive	United States	62/551,803		
1464	AA3329-Z	Inactive	United States	62/547,380		
1465	AA3337-Z	Inactive	United States	62/644,258		
1466	AA3355-Z	Inactive	United States	62/547,683		
1467	AA3356-Z	Inactive	United States	62/556,666		
1468	AA3358-Z	Inactive	United States	62/549,805		
1469	AA3370-Z	Inactive	United States	62/548,270		
1470	AA3385-Z	Inactive	United States	62/548,266		
1471	AA3390-Z	Inactive	United States	62/555,541		
1472	AA3407-Z	Inactive	United States	62/555,905		
1473	AA3407-Z2	Inactive	United States	62/550,410		
1474	AA3440-Z	Inactive	United States	62/552,949		
1475	AA3469-Z	Inactive	United States	62/551,344		
1476	AA3480-Z	Inactive	United States	62/579,377		
1477	AA3483-Z	Inactive	United States	62/552,197		
1478	AA3535-Z	Inactive	United States	62/551,566		
1479	AA3545-Z	Inactive	United States	62/554,411		
1480	AA3550-Z	Inactive	United States	62/551,753		
1481	AA3553-Z	Inactive	United States	62/556,451		
1482	AA3559-Z	Inactive	United States	62/551,930		
1483	AA3606-US	Inactive	United States	15/933,402	US-2019-0297758-A1	
1484	AA3619-Z	Inactive	United States	62/554,406		

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1485	AA3621-Z	Inactive	United States	62/553,285		
1486	AA3622-Z	Inactive	United States	62/553,301		
1487	AA3623-Z	Inactive	United States	62/553,604		
1488	AA3624-Z	Inactive	United States	62/553,660		
1489	AA3626-Z	Inactive	United States	62/561,524		
1490	AA3646-Z	Inactive	United States	62/557,810		
1491	AA3666-Z	Inactive	United States	62/554,850		
1492	AA3668-Z	Inactive	United States	62/556,729		
1493	AA3669-Z	Inactive	United States	62/553,610		
1494	AA3675-Z	Inactive	United States	62/556,951		
1495	AA3679-Z	Inactive	United States	62/554,381		
1496	AA3681-Z	Inactive	United States	62/556,175		
1497	AA3694-Z	Inactive	United States	62/554,380		
1498	AA3779-Z	Inactive	United States	62/556,143		
1499	AA3793-Z	Inactive	United States	62/555,449		
1500	AA3808-Z	Inactive	United States	62/559,819		
1501	AA3815-Z	Inactive	United States	62/555,453		
1502	AA3823-Z	Inactive	United States	62/556,959		
1503	AA3835-Z	Inactive	United States	62/557,005		
1504	AA3844-Z	Inactive	United States	62/556,155		
1505	AA3867-Z	Inactive	United States	62/556,964		
1506	AA3891-Z	Inactive	United States	62/556,969		
1507	AA3905-Z	Inactive	United States	62/557,767		
1508	AA3907-Z	Inactive	United States	62/556,966		
1509	AA3908-Z	Inactive	United States	62/556,989		
1510	AA3921-Z	Inactive	United States	62/556,971		
1511	AA3922-Z	Inactive	United States	62/556,973		
1512	AA3923-Z	Inactive	United States	62/556,976		
1513	AA3941-Z	Inactive	United States	62/557,015		
1514	AA3968-Z	Inactive	United States	62/557,017		
1515	AA3969-Z	Inactive	United States	62/556,930		
1516	AA3971-Z	Inactive	United States	62/556,933		
1517	AA3972-Z	Inactive	United States	62/556,936		
1518	AA3974-Z	Inactive	United States	62/559,242		
1519	AA3978-Z	Inactive	United States	62/557,024		
1520	AA3980-Z	Inactive	United States	62/556,996		
1521	AA3992-Z	Inactive	United States	62/557,019		
1522	AA3999-Z	Inactive	United States	62/556,986		
1523	AA4000-Z	Inactive	United States	62/557,615		
1524	AA4011-Z	Inactive	United States	62/556,993		
1525	AA4013-Z	Inactive	United States	62/556,990		
1526	AA4021-Z	Inactive	United States	62/556,999		
1527	AA4024-Z	Inactive	United States	62/557,001		
1528	AA4028-Z	Inactive	United States	62/557,003		
1529	AA4032-Z	Inactive	United States	62/557,008		

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1530	AA4105-Z	Inactive	United States	62/559,239		
1531	AA4109-Z	Inactive	United States	62/558,501		
1532	AA4113-Z	Inactive	United States	62/559,907		
1533	AA4123-Z	Inactive	United States	62/559,373		
1534	AA4178-Z	Inactive	United States	62/561,028		
1535	AA4184-Z	Inactive	United States	62/564,090		
1536	AA4221-Z	Inactive	United States	62/560,410		
1537	AA4293-Z	Inactive	United States	62/562,027		
1538	AA4303-Z	Inactive	United States	62/560,536		
1539	AA4307-Z	Inactive	United States	62/640,805		
1540	AA4321-Z	Inactive	United States	62/561,111		
1541	AA4332-Z	Inactive	United States	62/562,803		
1542	AA4347-Z	Inactive	United States	62/561,112		
1543	AA4354-Z	Inactive	United States	62/561,455		
1544	AA4359-Z	Inactive	United States	62/563,034		
1545	AA4361-Z	Inactive	United States	62/574,048		
1546	AA4385-Z	Inactive	United States	62/631,314		
1547	AA4405-Z	Inactive	United States	62/562,030		
1548	AA4418-Z	Inactive	United States	62/568,667		
1549	AA4419-Z	Inactive	United States	62/562,801		
1550	AA4462-Z	Inactive	United States	62/564,848		
1551	AA4489-Z	Inactive	United States	62/565,826		
1552	AA4510-US	Inactive	United States	16/018,712	US-2019-0391856-A1	
1553	AA4514-Z	Inactive	United States	62/564,086		
1554	AA4543-Z	Inactive	United States	62/564,779		
1555	AA4555-Z	Inactive	United States	62/564,838		
1556	AA4556-Z	Inactive	United States	62/566,061		
1557	AA4567-Z	Inactive	United States	62/588,105		
1558	AA4576-Z	Inactive	United States	62/566,988		
1559	AA4578-Z	Inactive	United States	62/565,793		
1560	AA4579-Z	Inactive	United States	62/565,784		
1561	AA4580-Z	Inactive	United States	62/565,779		
1562	AA4589-Z	Inactive	United States	62/565,798		
1563	AA4592-Z	Inactive	United States	62/565,617		
1564	AA4599-Z	Inactive	United States	62/564,919		
1565	AA4609-Z	Inactive	United States	62/564,978		
1566	AA4621-Z	Inactive	United States	62/567,033		
1567	AA4625-Z	Inactive	United States	62/564,926		
1568	AA4628-Z	Inactive	United States	62/567,178		
1569	AA4629-Z	Inactive	United States	62/564,955		
1570	AA4632-Z	Inactive	United States	62/564,976		
1571	AA4655-Z	Inactive	United States	62/566,062		
1572	AA4658-Z	Inactive	United States	62/569,050		
1573	AA4673-Z	Inactive	United States	62/567,039		
1574	AA4673-Z2	Inactive	United States	62/581,509		

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1575	AA4675-Z	Inactive	United States	62/566,715		
1576	AA4681-Z	Inactive	United States	62/566,066		
1577	AA4688-Z	Inactive	United States	62/567,158		
1578	AA4696-Z	Inactive	United States	62/567,163		
1579	AA4706-Z	Inactive	United States	62/566,048		
1580	AA4708-Z	Inactive	United States	62/567,435		
1581	AA4714-Z	Inactive	United States	62/566,719		
1582	AA4715-Z	Inactive	United States	62/566,720		
1583	AA4735-Z	Inactive	United States	62/567,204		
1584	AA4739-Z	Inactive	United States	62/567,205		
1585	AA4741-Z	Inactive	United States	62/567,209		
1586	AA4742-Z	Inactive	United States	62/593,077		
1587	AA4747-Z	Inactive	United States	62/584,365		
1588	AA4753-Z	Inactive	United States	62/566,710		
1589	AA4767-Z	Inactive	United States	62/567,003		
1590	AA4768-Z	Inactive	United States	62/567,179		
1591	AA4774-Z	Inactive	United States	62/567,175		
1592	AA4775-Z	Inactive	United States	62/567,202		
1593	AA4781-Z	Inactive	United States	62/567,165		
1594	AA4782-Z	Inactive	United States	62/567,022		
1595	AA4784-Z	Inactive	United States	62/567,196		
1596	AA4785-Z	Inactive	United States	62/567,027		
1597	AA4792-Z	Inactive	United States	62/567,030		
1598	AA4803-Z	Inactive	United States	62/568,714		
1599	AA4806-Z	Inactive	United States	62/568,185		
1600	AA4821-Z	Inactive	United States	62/571,058		
1601	AA4852-Z	Inactive	United States	62/570,351		
1602	AA4859-Z	Inactive	United States	62/566,043		
1603	AA4864-Z	Inactive	United States	62/568,183		
1604	AA4865-Z	Inactive	United States	62/614,756		
1605	AA4898-Z	Inactive	United States	62/571,996		
1606	AA4913-Z	Inactive	United States	62/579,534		
1607	AA4925-Z	Inactive	United States	62/575,274		
1608	AA4946-Z	Inactive	United States	62/570,356		
1609	AA4962-Z	Inactive	United States	62/570,004		
1610	AA4965-Z	Inactive	United States	62/569,348		
1611	AA4989-Z	Inactive	United States	62/570,006		
1612	AA4990-Z	Inactive	United States	62/570,008		
1613	AA4996-Z	Inactive	United States	62/570,011		
1614	AA5027-Z	Inactive	United States	62/577,013		
1615	AA5039-Z	Inactive	United States	62/572,897		
1616	AA5119-Z	Inactive	United States	62/573,797		
1617	AA5121-Z	Inactive	United States	62/573,802		
1618	AA5121-Z2	Inactive	United States	62/576,796		
1619	AA5122-Z	Inactive	United States	62/576,805		

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1620	AA5123-Z	Inactive	United States	62/576,811		
1621	AA5144-Z	Inactive	United States	62/571,669		
1622	AA5145-Z	Inactive	United States	62/576,818		
1623	AA5154-Z	Inactive	United States	62/596,612		
1624	AA5163-Z	Inactive	United States	62/575,352		
1625	AA5170-Z	Inactive	United States	62/576,826		
1626	AA5185-Z	Inactive	United States	62/572,904		
1627	AA5197-Z	Inactive	United States	62/575,923		
1628	AA5221-Z	Inactive	United States	62/576,473		
1629	AA5221-Z2	Inactive	United States	62/578,160		
1630	AA5229-Z	Inactive	United States	62/574,660		
1631	AA5230-Z	Inactive	United States	62/593,062		
1632	AA5231-Z	Inactive	United States	62/575,933		
1633	AA5254-Z	Inactive	United States	62/573,456		
1634	AA5276-Z	Inactive	United States	62/573,459		
1635	AA5291-Z	Inactive	United States	62/574,085		
1636	AA5293-Z	Inactive	United States	62/574,035		
1637	AA5305-Z	Inactive	United States	62/574,086		
1638	AA5306-Z	Inactive	United States	62/573,976		
1639	AA5308-Z	Inactive	United States	62/574,024		
1640	AA5315-Z	Inactive	United States	62/574,087		
1641	AA5332-Z	Inactive	United States	62/574,507		
1642	AA5349-Z	Inactive	United States	62/575,462		
1643	AA5353-Z	Inactive	United States	62/576,528		
1644	AA5398-Z	Inactive	United States	62/584,523		
1645	AA5404-Z	Inactive	United States	62/575,285		
1646	AA5538-Z	Inactive	United States	62/576,524		
1647	AA5542-Z	Inactive	United States	62/575,904		
1648	AA5544-Z	Inactive	United States	62/575,887		
1649	AA5552-Z	Inactive	United States	62/575,894		
1650	AA5554-Z	Inactive	United States	62/575,875		
1651	AA5645-Z	Inactive	United States	62/621,449		
1652	AA5672-Z	Inactive	United States	62/612,149		
1653	AA5699-Z	Inactive	United States	62/578,993		
1654	AA5700-Z	Inactive	United States	62/578,999		
1655	AA5710-Z	Inactive	United States	62/580,331		
1656	AA5757-Z	Inactive	United States	62/578,199		
1657	AA5773-Z	Inactive	United States	62/578,203		
1658	AA5776-US	Inactive	United States	16/146,931	US-2019-0045361-A1	
1659	AA5776-Z	Inactive	United States	62/578,763		
1660	AA5781-Z	Inactive	United States	62/579,501		
1661	AA5802-Z	Inactive	United States	62/581,547		
1662	AA5832-Z	Inactive	United States	62/580,307		
1663	AA5930-Z	Inactive	United States	62/581,543		
1664	AA5948-Z	Inactive	United States	62/582,128		

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1665	AA5987-Z	Inactive	United States	62/582,129		
1666	AA5989-Z	Inactive	United States	62/585,205		
1667	AA5990-Z	Inactive	United States	62/584,517		
1668	AA5997-Z	Inactive	United States	62/582,841		
1669	AA6007-Z	Inactive	United States	62/587,382		
1670	AA6016-Z	Inactive	United States	62/584,513		
1671	AA6024-Z	Inactive	United States	62/582,847		
1672	AA6037-Z	Inactive	United States	62/583,881		
1673	AA6046-Z	Inactive	United States	62/585,385		
1674	AA6056-Z	Inactive	United States	62/583,926		
1675	AA6059-Z	Inactive	United States	62/584,022		
1676	AA6063-Z	Inactive	United States	62/583,347		
1677	AA6070-Z	Inactive	United States	62/584,625		
1678	AA6091-Z	Inactive	United States	62/583,883		
1679	AA6095-Z	Inactive	United States	62/585,195		
1680	AA6110-Z	Inactive	United States	62/584,633		
1681	AA6112-Z	Inactive	United States	62/585,210		
1682	AA6115-Z	Inactive	United States	62/585,900		
1683	AA6135-Z	Inactive	United States	62/584,626		
1684	AA6144-Z	Inactive	United States	62/584,627		
1685	AA6185-Z	Inactive	United States	62/585,329		
1686	AA6187-Z	Inactive	United States	62/585,381		
1687	AA6188-Z	Inactive	United States	62/585,382		
1688	AA6190-Z	Inactive	United States	62/586,749		
1689	AA6197-Z	Inactive	United States	62/587,215		
1690	AA6222-Z	Inactive	United States	62/587,385		
1691	AA6239-Z	Inactive	United States	62/585,907		
1692	AA6240-Z	Inactive	United States	62/585,909		
1693	AA6250-Z	Inactive	United States	62/586,755		
1694	AA6254-Z	Inactive	United States	62/586,758		
1695	AA6269-Z	Inactive	United States	62/586,718		
1696	AA6271-Z	Inactive	United States	62/586,724		
1697	AA6272-Z	Inactive	United States	62/586,727		
1698	AA6273-Z	Inactive	United States	62/586,734		
1699	AA6274-Z	Inactive	United States	62/586,745		
1700	AA6276-Z	Inactive	United States	62/586,746		
1701	AA6295-Z	Inactive	United States	62/587,347		
1702	AA6296-Z	Inactive	United States	62/588,246		
1703	AA6303-Z	Inactive	United States	62/587,354		
1704	AA6304-Z	Inactive	United States	62/587,206		
1705	AA6309-Z	Inactive	United States	62/587,657		
1706	AA6310-US2	Inactive	United States	15/875,603		
1707	AA6314-Z	Inactive	United States	62/587,234		
1708	AA6327-Z	Inactive	United States	62/588,065		
1709	AA6340-Z	Inactive	United States	62/587,910		

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1710	AA6344-Z	Inactive	United States	62/588,772		
1711	AA6355-Z	Inactive	United States	62/587,387		
1712	AA6361-Z	Inactive	United States	62/587,661		
1713	AA6368-Z	Inactive	United States	62/588,256		
1714	AA6370-Z	Inactive	United States	62/588,078		
1715	AA6378-Z	Inactive	United States	62/587,649		
1716	AA6381-Z	Inactive	United States	62/587,392		
1717	AA6388-Z	Inactive	United States	62/587,929		
1718	AA6389-Z	Inactive	United States	62/588,042		
1719	AA6393-Z	Inactive	United States	62/588,160		
1720	AA6395-Z	Inactive	United States	62/587,699		
1721	AA6396-Z	Inactive	United States	62/587,397		
1722	AA6404-Z	Inactive	United States	62/587,817		
1723	AA6406-Z	Inactive	United States	62/587,401		
1724	AA6407-Z	Inactive	United States	62/587,705		
1725	AA6410-Z	Inactive	United States	62/588,252		
1726	AA6434-Z	Inactive	United States	62/588,643		
1727	AA6436-Z	Inactive	United States	62/588,629		
1728	AA6439-Z	Inactive	United States	62/588,131		
1729	AA6442-Z	Inactive	United States	62/588,240		
1730	AA6449-Z	Inactive	United States	62/588,107		
1731	AA6452-Z	Inactive	United States	62/589,844		
1732	AA6460-Z	Inactive	United States	62/588,258		
1733	AA6464-Z	Inactive	United States	62/588,098		
1734	AA6467-Z	Inactive	United States	62/588,253		
1735	AA6469-Z	Inactive	United States	62/588,207		
1736	AA6504-Z	Inactive	United States	62/591,008		
1737	AA6528-Z	Inactive	United States	62/588,688		
1738	AA6532-Z	Inactive	United States	62/593,085		
1739	AA6546-Z	Inactive	United States	62/589,840		
1740	AA6567-Z	Inactive	United States	62/591,579		
1741	AA6575-Z	Inactive	United States	62/591,058		
1742	AA6579-Z	Inactive	United States	62/591,621		
1743	AA6604-Z	Inactive	United States	62/593,781		
1744	AA6605-Z	Inactive	United States	62/593,811		
1745	AA6608-Z	Inactive	United States	62/593,007		
1746	AA6613-Z	Inactive	United States	62/590,996		
1747	AA6628-Z	Inactive	United States	62/591,068		
1748	AA6630-Z	Inactive	United States	62/629,957		
1749	AA6642-Z	Inactive	United States	62/592,998		
1750	AA6656-Z	Inactive	United States	62/590,993		
1751	AA6657-Z	Inactive	United States	62/591,065		
1752	AA6662-Z	Inactive	United States	62/591,061		
1753	AA6665-Z	Inactive	United States	62/591,014		
1754	AA6669-Z	Inactive	United States	62/599,572		

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1755	AA6685-Z	Inactive	United States	62/592,273		
1756	AA6686-Z	Inactive	United States	62/593,177		
1757	AA6688-Z	Inactive	United States	62/591,071		
1758	AA6690-Z	Inactive	United States	62/591,073		
1759	AA6733-Z	Inactive	United States	62/593,344		
1760	AA6743-Z	Inactive	United States	62/594,441		
1761	AA6745-Z	Inactive	United States	62/594,437		
1762	AA6748-Z	Inactive	United States	62/594,446		
1763	AA6764-Z	Inactive	United States	62/593,778		
1764	AA6802-Z	Inactive	United States	62/593,011		
1765	AA6809-Z	Inactive	United States	62/596,619		
1766	AA6813-Z	Inactive	United States	62/596,622		
1767	AA6899-Z	Inactive	United States	62/594,450		
1768	AA6959-Z	Inactive	United States	62/595,891		
1769	AA6961-Z	Inactive	United States	62/597,264		
1770	AA6975-Z	Inactive	United States	62/596,268		
1771	AA6981-Z	Inactive	United States	62/595,888		
1772	AA6996-Z	Inactive	United States	62/597,760		
1773	AA6997-Z	Inactive	United States	62/595,889		
1774	AA7001-Z	Inactive	United States	62/597,265		
1775	AA7026-Z	Inactive	United States	62/596,267		
1776	AA7046-Z	Inactive	United States	62/597,254		
1777	AA7047-Z	Inactive	United States	62/597,305		
1778	AA7053-Z	Inactive	United States	62/597,302		
1779	AA7125-Z	Inactive	United States	62/609,179		
1780	AA7158-US-C1	Inactive	United States	16/674,900		
1781	AA7159-Z	Inactive	United States	62/599,592		
1782	AA7168-Z	Inactive	United States	62/608,441		
1783	AA7169-Z	Inactive	United States	62/608,446		
1784	AA7177-Z	Inactive	United States	62/613,300		
1785	AA7218-Z	Inactive	United States	62/609,977		
1786	AA7261-Z	Inactive	United States	62/612,888		
1787	AA7322-Z	Inactive	United States	62/771,741		
1788	AA7322-Z2	Inactive	United States	62/946,079		
1789	AA7354-Z	Inactive	United States	62/608,488		
1790	AA7389-Z	Inactive	United States	62/610,813		
1791	AA7436-Z	Inactive	United States	62/610,857		
1792	AA7461-Z	Inactive	United States	62/612,155		
1793	AA7462-Z	Inactive	United States	62/662,341		
1794	AA7546-Z	Inactive	United States	62/610,869		
1795	AA7555-Z	Inactive	United States	62/612,943		
1796	AA7567-Z	Inactive	United States	62/612,152		
1797	AA7610-Z	Inactive	United States	62/615,888		
1798	AA7639-Z	Inactive	United States	62/613,158		
1799	AA7723-Z	Inactive	United States	62/613,645		

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1800	AA7732-Z	Inactive	United States	62/614,178		
1801	AA7741-Z	Inactive	United States	62/617,492		
1802	AA7779-Z	Inactive	United States	62/629,963		
1803	AA7795-Z	Inactive	United States	62/620,279		
1804	AA7820-Z	Inactive	United States	62/622,035		
1805	AA7823-Z	Inactive	United States	62/615,883		
1806	AA7833-Z	Inactive	United States	62/616,760		
1807	AA7834-Z	Inactive	United States	62/615,157		
1808	AA7837-Z	Inactive	United States	62/710,358		
1809	AA7842-Z	Inactive	United States	62/616,813		
1810	AA7843-Z	Inactive	United States	62/616,999		
1811	AA7868-Z	Inactive	United States	62/617,054		
1812	AA7881-Z	Inactive	United States	62/627,083		
1813	AA7891-Z	Inactive	United States	62/616,139		
1814	AA7893-Z	Inactive	United States	62/617,085		
1815	AA7897-Z	Inactive	United States	62/619,292		
1816	AA7904-Z	Inactive	United States	62/617,792		
1817	AA7907-Z	Inactive	United States	62/616,749		
1818	AA7910-Z	Inactive	United States	62/616,766		
1819	AA7912-Z	Inactive	United States	62/616,965		
1820	AA7936-Z	Inactive	United States	62/617,488		
1821	AA7975-Z	Inactive	United States	62/616,968		
1822	AA7978-Z	Inactive	United States	62/617,794		
1823	AA7979-Z	Inactive	United States	62/617,058		
1824	AA7986-Z	Inactive	United States	62/617,105		
1825	AA8001-Z	Inactive	United States	62/617,119		
1826	AA8005-Z	Inactive	United States	62/617,145		
1827	AA8006-Z	Inactive	United States	62/617,144		
1828	AA8023-Z	Inactive	United States	62/618,410		
1829	AA8039-Z	Inactive	United States	62/618,973		
1830	AA8060-Z	Inactive	United States	62/619,356		
1831	AA8112-Z	Inactive	United States	62/620,178		
1832	AA8118-Z	Inactive	United States	62/620,179		
1833	AA8145-Z	Inactive	United States	62/620,285		
1834	AA8150-Z	Inactive	United States	62/620,850		
1835	AA8190-Z	Inactive	United States	62/621,347		
1836	AA8201-Z	Inactive	United States	62/620,993		
1837	AA8232-Z	Inactive	United States	62/624,282		
1838	AA8241-Z	Inactive	United States	62/622,457		
1839	AA8262-Z	Inactive	United States	62/623,799		
1840	AA8280-Z	Inactive	United States	62/623,152		
1841	AA8295-US	Inactive	United States	16/233,069	US-2019-0132796-A1	
1842	AA8295-Z	Inactive	United States	62/623,379		
1843	AA8306-Z	Inactive	United States	62/623,259		
1844	AA8316-Z	Inactive	United States	62/623,150		

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1845	AA8373-Z	Inactive	United States	62/624,903		
1846	AA8423-Z	Inactive	United States	62/623,265		
1847	AA8484-Z	Inactive	United States	62/623,965		
1848	AA8519-Z	Inactive	United States	62/625,775		
1849	AA8521-Z	Inactive	United States	62/626,307		
1850	AA8549-Z	Inactive	United States	62/626,392		
1851	AA8550-Z	Inactive	United States	62/626,394		
1852	AA8551-Z	Inactive	United States	62/626,524		
1853	AA8552-Z	Inactive	United States	62/626,446		
1854	AA8571-Z	Inactive	United States	62/625,064		
1855	AA8593-Z	Inactive	United States	62/640,155		
1856	AA8610-Z	Inactive	United States	62/625,780		
1857	AA8624-Z	Inactive	United States	62/627,091		
1858	AA8636-Z	Inactive	United States	62/625,783		
1859	AA8639-Z	Inactive	United States	62/627,868		
1860	AA8641-Z	Inactive	United States	62/626,399		
1861	AA8656-Z	Inactive	United States	62/627,876		
1862	AA8701-Z	Inactive	United States	62/621,353		
1863	AA8737-Z	Inactive	United States	62/667,709		
1864	AA8745-Z	Inactive	United States	62/627,412		
1865	AA8765-Z	Inactive	United States	62/627,416		
1866	AA8775-Z	Inactive	United States	62/640,255		
1867	AA8778-Z	Inactive	United States	62/628,707		
1868	AA8779-Z	Inactive	United States	62/628,110		
1869	AA8780-Z	Inactive	United States	62/627,420		
1870	AA8830-Z	Inactive	United States	62/628,448		
1871	AA8834-US-C1	Inactive	United States	16/996,768		
1872	AA8852-Z	Inactive	United States	62/628,451		
1873	AA8882-Z	Inactive	United States	62/630,553		
1874	AA8887-Z	Inactive	United States	62/710,490		
1875	AA8908-Z	Inactive	United States	62/629,215		
1876	AA8910-Z	Inactive	United States	62/629,396		
1877	AA8921-Z	Inactive	United States	62/629,966		
1878	AA8923-Z	Inactive	United States	62/632,086		
1879	AA8937-Z	Inactive	United States	62/630,110		
1880	AA8941-Z	Inactive	United States	62/634,051		
1881	AA8947-Z	Inactive	United States	62/710,412		
1882	AA8949-Z	Inactive	United States	62/629,970		
1883	AA8960-Z	Inactive	United States	62/631,334		
1884	AA8967-Z	Inactive	United States	62/633,238		
1885	AA8991-Z	Inactive	United States	62/631,328		
1886	AA9017-Z	Inactive	United States	62/631,098		
1887	AA9029-Z	Inactive	United States	62/632,720		
1888	AA9031-Z	Inactive	United States	62/710,495		
1889	AA9040-Z	Inactive	United States	62/710,359		

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1890	AA9053-Z	Inactive	United States	62/632,106		
1891	AA9063-Z	Inactive	United States	62/710,313		
1892	AA9070-Z	Inactive	United States	62/710,493		
1893	AA9071-Z	Inactive	United States	62/632,104		
1894	AA9074-Z	Inactive	United States	62/632,100		
1895	AA9075-Z	Inactive	United States	62/710,494		
1896	AA9098-Z	Inactive	United States	62/587,403		
1897	AA9122-Z	Inactive	United States	62/632,277		
1898	AA9134-Z	Inactive	United States	62/656,349		
1899	AA9137-Z	Inactive	United States	62/634,006		
1900	AA9182-Z	Inactive	United States	62/635,021		
1901	AA9199-Z	Inactive	United States	62/635,034		
1902	AA9216-Z	Inactive	United States	62/635,098		
1903	AA9232-Z	Inactive	United States	62/635,690		
1904	AA9238-Z	Inactive	United States	62/635,694		
1905	AA9271-Z	Inactive	United States	62/637,536		
1906	AA9272-Z	Inactive	United States	62/637,537		
1907	AA9274-Z	Inactive	United States	62/643,480		
1908	AA9365-Z	Inactive	United States	62/638,557		
1909	AA9445-Z	Inactive	United States	62/640,333		
1910	AA9469-Z	Inactive	United States	62/643,395		
1911	AA9494-Z	Inactive	United States	62/640,825		
1912	AA9516-Z	Inactive	United States	62/645,943		
1913	AA9553-Z	Inactive	United States	62/642,503		
1914	AA9554-Z	Inactive	United States	62/642,426		
1915	AA9564-Z	Inactive	United States	62/642,508		
1916	AA9565-Z	Inactive	United States	62/635,724		
1917	AA9591-Z	Inactive	United States	62/644,260		
1918	AA9612-Z	Inactive	United States	62/643,541		
1919	AA9745-Z	Inactive	United States	62/644,162		
1920	AA9761-Z	Inactive	United States	62/647,486		
1921	AA9875-Z	Inactive	United States	62/644,102		
1922	AA9878-Z	Inactive	United States	62/645,923		
1923	AA9929-Z	Inactive	United States	62/646,029		
1924	AA9932-Z	Inactive	United States	62/645,314		
1925	AA9954-Z	Inactive	United States	62/662,502		
1926	AA9959-Z	Inactive	United States	62/646,473		
1927	AA9965-Z	Inactive	United States	62/647,113		
1928	AB0003-Z	Inactive	United States	62/653,024		
1929	AB0004-Z	Inactive	United States	62/647,107		
1930	AB0011-Z	Inactive	United States	62/655,691		
1931	AB0013-Z	Inactive	United States	62/648,131		
1932	AB0018-Z	Inactive	United States	62/649,354		
1933	AB0033-Z	Inactive	United States	62/648,572		
1934	AB0056-Z	Inactive	United States	62/647,416		

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1935	AB0083-Z	Inactive	United States	62/650,906		
1936	AB0159-Z	Inactive	United States	62/649,066		
1937	AB0168-Z	Inactive	United States	62/650,122		
1938	AB0196-Z	Inactive	United States	62/655,403		
1939	AB0204-Z	Inactive	United States	62/651,498		
1940	AB0206-Z	Inactive	United States	62/656,138		
1941	AB0238-Z	Inactive	United States	62/652,599		
1942	AB0277-Z	Inactive	United States	62/653,316		
1943	AB0296-Z	Inactive	United States	62/657,148		
1944	AB0380-Z	Inactive	United States	62/658,071		
1945	AB0422-Z	Inactive	United States	62/653,860		
1946	AB0428-Z	Inactive	United States	62/653,979		
1947	AB0431-Z	Inactive	United States	62/653,772		
1948	AB0442-Z	Inactive	United States	62/654,099		
1949	AB0444-Z	Inactive	United States	62/654,156		
1950	AB0448-Z	Inactive	United States	62/654,105		
1951	AB0454-Z	Inactive	United States	62/654,196		
1952	AB0457-Z	Inactive	United States	62/655,693		
1953	AB0488-Z	Inactive	United States	62/658,701		
1954	AB0495-Z	Inactive	United States	62/655,406		
1955	AB0531-Z	Inactive	United States	62/660,409		
1956	AB0538-Z	Inactive	United States	62/659,827		
1957	AB0581-Z	Inactive	United States	62/663,444		
1958	AB0599-Z	Inactive	United States	62/658,078		
1959	AB0751-Z	Inactive	United States	62/662,444		
1960	AB4618-US-C1-C1	Inactive	United States	16/748,306		
1961	AB5331-US-C1	Inactive	United States	16/939,560		
1962	AB7464-US-C1	Inactive	United States	16/869,609		
1963	AB9314-US	Inactive	United States	16/361,683	US-2019-0320409-A1	
1964	D134641-Z	Inactive	United States	62/633,490		
1965	D143955-Z	Inactive	United States	62/644,084		
1966	D144107-Z2	Inactive	United States	62/727,722		
1967	D145170-Z	Inactive	United States	62/639,181		
1968	D145603-Z	Inactive	United States	62/657,150		
1969	D146359-Z	Inactive	United States	62/565,801		
1970	D147112-US	Inactive	United States	16/024,413	US-2020-0006272-A1	
1971	D147579-Z	Inactive	United States	62/536,878		
1972	D147618-Z	Inactive	United States	62/625,425		
1973	D147639-Z	Inactive	United States	62/555,194		
1974	D148173-Z	Inactive	United States	62/641,131		
1975	D148175-Z	Inactive	United States	62/566,379		
1976	D148285-Z	Inactive	United States	62/638,611		
1977	D148564-Z	Inactive	United States	62/516,340		
1978	D148614-Z	Inactive	United States	62/558,692		
1979	D148626-Z	Inactive	United States	62/642,338		

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1980	D148741-Z	Inactive	United States	62/544,262		
1981	D148742-Z	Inactive	United States	62/543,530		
1982	D148743-Z	Inactive	United States	62/544,256		
1983	D148744-Z	Inactive	United States	62/544,654		
1984	D148745-Z	Inactive	United States	62/543,644		
1985	D148746-Z	Inactive	United States	62/543,708		
1986	D148818-Z	Inactive	United States	62/543,718		
1987	D149034-Z	Inactive	United States	62/638,527		
1988	D149087-Z	Inactive	United States	62/532,833		
1989	D149112-Z	Inactive	United States	62/638,562		
1990	D149115-US	Inactive	United States	15/857,207	US-2019-0206777-A1	
1991	D149116-Z	Inactive	United States	62/534,029		
1992	D149118-Z	Inactive	United States	62/529,842		
1993	D149143-US	Inactive	United States	15/852,908	US-2019-0198448-A1	
1994	D149170-Z	Inactive	United States	62/546,427		
1995	D149185-Z	Inactive	United States	62/531,758		
1996	D149207-Z	Inactive	United States	62/536,837		
1997	D149218-Z	Inactive	United States	62/535,597		
1998	D149219-Z	Inactive	United States	62/535,668		
1999	D149242-Z	Inactive	United States	62/538,481		
2000	D149273-Z	Inactive	United States	62/552,132		
2001	D149403-Z	Inactive	United States	62/537,615		
2002	D149420-Z	Inactive	United States	62/538,554		
2003	D149432-Z	Inactive	United States	62/538,553		
2004	D149435-Z	Inactive	United States	62/539,924		
2005	D149437-Z	Inactive	United States	62/538,551		
2006	D149440-Z	Inactive	United States	62/538,556		
2007	D149441-Z	Inactive	United States	62/540,390		
2008	D149444-Z	Inactive	United States	62/539,925		
2009	D149445-Z	Inactive	United States	62/539,928		
2010	D149446-Z	Inactive	United States	62/539,936		
2011	P105618Z	Inactive	United States	62/350,031		
2012	P105623	Inactive	United States	15/245,195	US-2018-0063744-A1	9,924,408
2013	P105650-C1	Inactive	United States	16/551,350		
2014	P105672	Inactive	United States	15/246,589	US-2018-0062890-A1	9,942,069
2015	P105684Z	Inactive	United States	62/346,180		
2016	P105689Z	Inactive	United States	62/346,192		
2017	P105695Z	Inactive	United States	62/346,197		
2018	P105696Z	Inactive	United States	62/345,209		
2019	P105701Z	Inactive	United States	62/344,101		
2020	P105853Z	Inactive	United States	62/350,533		
2021	P105858Z	Inactive	United States	62/349,209		
2022	P105859Z	Inactive	United States	62/352,618		
2023	P105860Z	Inactive	United States	62/349,747		
2024	P105861Z	Inactive	United States	62/349,239		

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2025	P105862Z	Inactive	United States	62/349,780		
2026	P105874	Inactive	United States	15/396,255	US-2017-0367095-A1	
2027	P105874Z	Inactive	United States	62/350,253		
2028	P105879Z	Inactive	United States	62/349,345		
2029	P105955	Inactive	United States	15/610,294	US-2017-0366957-A1	
2030	P105955Z	Inactive	United States	62/350,529		
2031	P105956	Inactive	United States	15/391,056	US-2017-0367099-A1	
2032	P105956Z	Inactive	United States	62/350,547		
2033	P105957Z	Inactive	United States	62/353,224		
2034	P105961Z	Inactive	United States	62/407,953		
2035	P106078Z	Inactive	United States	62/352,374		
2036	P106080Z	Inactive	United States	62/353,451		
2037	P106083-C1	Inactive	United States	16/419,973		
2038	P106168	Inactive	United States	15/391,531	US-2017-0374684-A1	
2039	P106168Z	Inactive	United States	62/354,212		
2040	P106175Z	Inactive	United States	62/360,048		
2041	P106234PCT-US	Inactive	United States	16/311,146	US-2020-0314220-A1	
2042	P106234Z	Inactive	United States	62/355,643		
2043	P106257Z	Inactive	United States	62/356,029		
2044	P106317	Inactive	United States	15/283,383	US-2017-0170885-A1	
2045	P106318	Inactive	United States	15/391,663	US-2017-0245289-A1	
2046	P106335Z	Inactive	United States	62/357,126		
2047	P106337Z	Inactive	United States	62/360,057		
2048	P106572	Inactive	United States	15/274,509	US-2018-0091177-A1	10,027,356
2049	P106572-C1	Inactive	United States	16/014,407		
2050	P106605Z	Inactive	United States	62/359,357		
2051	P106649-C1	Inactive	United States	16/403,173		
2052	P106649Z	Inactive	United States	62/359,882		
2053	P106727	Inactive	United States	15/280,392		9,787,336
2054	P106748-D1	Inactive	United States	16/505,307	US-2019-0333886-A1	
2055	P106833Z	Inactive	United States	62/361,624		
2056	P106834	Inactive	United States	15/391,611	US-2018-0020405-A1	
2057	P106834Z	Inactive	United States	62/361,902		
2058	P106835	Inactive	United States	15/391,606	US-2018-0020404-A1	
2059	P106835Z	Inactive	United States	62/362,173		
2060	P106840Z	Inactive	United States	62/369,486		
2061	P106913-C1	Inactive	United States	16/274,912		
2062	P106913Z	Inactive	United States	62/365,583		
2063	P106973Z	Inactive	United States	62/364,419		
2064	P106978-C1	Inactive	United States	16/016,938		
2065	P106978Z	Inactive	United States	62/364,420		
2066	P106982-C1	Inactive	United States	16/282,222		
2067	P106982Z	Inactive	United States	62/363,596		
2068	P106984Z	Inactive	United States	62/363,420		
2069	P106985Z	Inactive	United States	62/364,551		

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2070	P106986Z	Inactive	United States	62/364,632		
2071	P106988	Inactive	United States	15/391,317	US-2018-0027494-A1	
2072	P106988-C1	Inactive	United States	16/387,934		
2073	P106988Z	Inactive	United States	62/366,187		
2074	P106996Z	Inactive	United States	62/366,925		
2075	P106998Z	Inactive	United States	62/368,030		
2076	P107001	Inactive	United States	15/382,808		9,912,357
2077	P107030Z	Inactive	United States	62/365,571		
2078	P107063Z	Inactive	United States	62/351,485		
2079	P107086	Inactive	United States	15/247,042	US-2018-0062895-A1	9,985,815
2080	P107146	Inactive	United States	15/277,238	US-2018-0092055-A1	
2081	P107146-C1	Inactive	United States	16/282,899		
2082	P107148	Inactive	United States	15/277,673	US-2018-0092092-A1	
2083	P107149	Inactive	United States	15/279,284	US-2018-0092107-A1	
2084	P107160	Inactive	United States	15/278,905	US-2018-0092029-A1	
2085	P107183Z	Inactive	United States	62/380,245		
2086	P107375Z	Inactive	United States	62/369,636		
2087	P107376Z	Inactive	United States	62/369,854		
2088	P107378Z	Inactive	United States	62/369,569		
2089	P107390	Inactive	United States	15/436,171	US-2018-0240466-A1	
2090	P107422Z	Inactive	United States	62/375,744		
2091	P107629Z	Inactive	United States	62/374,637		
2092	P107631Z	Inactive	United States	62/370,062		
2093	P107632Z	Inactive	United States	62/372,636		
2094	P107661Z	Inactive	United States	62/372,162		
2095	P107662Z	Inactive	United States	62/372,413		
2096	P107663Z	Inactive	United States	62/372,378		
2097	P107729Z	Inactive	United States	62/372,138		
2098	P107734Z	Inactive	United States	62/376,739		
2099	P108011Z	Inactive	United States	62/372,384		
2100	P108012	Inactive	United States	15/391,620	US-2018-0049130-A1	
2101	P108012Z	Inactive	United States	62/374,090		
2102	P108013Z	Inactive	United States	62/374,154		
2103	P108028Z	Inactive	United States	62/374,641		
2104	P108029Z	Inactive	United States	62/373,828		
2105	P108030Z	Inactive	United States	62/373,833		
2106	P108036Z	Inactive	United States	62/372,683		
2107	P108038Z	Inactive	United States	62/372,483		
2108	P108048Z	Inactive	United States	62/372,663		
2109	P108053Z	Inactive	United States	62/410,251		
2110	P108072Z	Inactive	United States	62/373,477		
2111	P108074Z	Inactive	United States	62/372,498		
2112	P108083Z	Inactive	United States	62/373,152		
2113	P108084Z	Inactive	United States	62/373,149		
2114	P108097Z	Inactive	United States	62/373,482		

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2115	P108099Z	Inactive	United States	62/373,898		
2116	P108157Z	Inactive	United States	62/373,193		
2117	P108160Z	Inactive	United States	62/374,200		
2118	P108161Z	Inactive	United States	62/373,736		
2119	P108162Z	Inactive	United States	62/373,890		
2120	P108163Z	Inactive	United States	62/374,195		
2121	P108166Z	Inactive	United States	62/373,753		
2122	P108167Z	Inactive	United States	62/373,888		
2123	P108168Z	Inactive	United States	62/374,191		
2124	P108169Z	Inactive	United States	62/374,614		
2125	P108171Z	Inactive	United States	62/373,757		
2126	P108173Z	Inactive	United States	62/374,636		
2127	P108175Z	Inactive	United States	62/373,738		
2128	P108177Z	Inactive	United States	62/373,744		
2129	P108178Z	Inactive	United States	62/374,618		
2130	P108179Z	Inactive	United States	62/374,628		
2131	P108181Z	Inactive	United States	62/374,678		
2132	P108193Z	Inactive	United States	62/374,658		
2133	P108195Z	Inactive	United States	62/374,617		
2134	P108196Z	Inactive	United States	62/374,624		
2135	P108197Z	Inactive	United States	62/374,656		
2136	P108199	Inactive	United States	15/375,377	US-2017-0311204-A1	
2137	P108201Z	Inactive	United States	62/374,648		
2138	P108202Z	Inactive	United States	62/374,642		
2139	P108204Z	Inactive	United States	62/374,676		
2140	P108211Z	Inactive	United States	62/377,026		
2141	P108212Z	Inactive	United States	62/377,191		
2142	P108214	Inactive	United States	15/393,977	US-2018-0054724-A1	
2143	P108214Z	Inactive	United States	62/377,310		
2144	P108215Z	Inactive	United States	62/375,510		
2145	P108217Z	Inactive	United States	62/374,654		
2146	P108218Z	Inactive	United States	62/374,627		
2147	P108219Z	Inactive	United States	62/374,747		
2148	P108294Z	Inactive	United States	62/375,620		
2149	P108295Z	Inactive	United States	62/374,660		
2150	P108296Z	Inactive	United States	62/375,193		
2151	P108297Z	Inactive	United States	62/375,364		
2152	P108317EP-US-C1	Inactive	United States	16/556,348		
2153	P108332Z	Inactive	United States	62/377,890		
2154	P108333Z	Inactive	United States	62/378,003		
2155	P108340Z	Inactive	United States	62/382,089		
2156	P108343Z	Inactive	United States	62/377,306		
2157	P108348Z	Inactive	United States	62/374,683		
2158	P108403Z	Inactive	United States	62/377,296		
2159	P108528Z	Inactive	United States	62/381,244		

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2160	P108551Z	Inactive	United States	62/379,361		
2161	P108552Z	Inactive	United States	62/379,410		
2162	P108554Z	Inactive	United States	62/380,672		
2163	P108562Z	Inactive	United States	62/381,669		
2164	P108563Z	Inactive	United States	62/382,108		
2165	P108599Z	Inactive	United States	62/378,058		
2166	P108600Z	Inactive	United States	62/378,047		
2167	P108601Z	Inactive	United States	62/378,120		
2168	P108602Z	Inactive	United States	62/378,545		
2169	P108603Z	Inactive	United States	62/378,121		
2170	P108604Z	Inactive	United States	62/378,124		
2171	P108605Z	Inactive	United States	62/378,182		
2172	P108607Z	Inactive	United States	62/378,056		
2173	P108608Z	Inactive	United States	62/378,049		
2174	P108609Z	Inactive	United States	62/378,552		
2175	P108610Z	Inactive	United States	62/378,940		
2176	P108645Z	Inactive	United States	62/437,385		
2177	P108657	Inactive	United States	15/474,836	US-2018-0063299-A1	
2178	P108657Z	Inactive	United States	62/380,939		
2179	P108658Z	Inactive	United States	62/380,673		
2180	P108674	Inactive	United States	15/389,520		9,923,563
2181	P108678-C1	Inactive	United States	16/444,349		
2182	P108678Z	Inactive	United States	62/381,254		
2183	P108686Z	Inactive	United States	62/383,806		
2184	P108687Z	Inactive	United States	62/382,302		
2185	P108709Z	Inactive	United States	62/383,705		
2186	P108710Z	Inactive	United States	62/383,715		
2187	P108711Z	Inactive	United States	62/383,724		
2188	P108712Z	Inactive	United States	62/383,527		
2189	P108713Z	Inactive	United States	62/383,175		
2190	P108730	Inactive	United States	15/392,207	US-2018-0184428-A1	
2191	P108734Z	Inactive	United States	62/383,152		
2192	P108735Z	Inactive	United States	62/383,759		
2193	P108736Z	Inactive	United States	62/383,767		
2194	P108846Z	Inactive	United States	62/379,661		
2195	P108847Z	Inactive	United States	62/383,153		
2196	P108848Z	Inactive	United States	62/383,105		
2197	P108849Z	Inactive	United States	62/382,640		
2198	P108850Z	Inactive	United States	62/383,106		
2199	P108861Z	Inactive	United States	62/383,103		
2200	P108908Z	Inactive	United States	62/385,833		
2201	P108911Z	Inactive	United States	62/385,682		
2202	P108912Z	Inactive	United States	62/385,680		
2203	P108980Z	Inactive	United States	62/401,533		
2204	P108982	Inactive	United States	15/347,447	US-2018-0132234-A1	

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2205	P109099Z	Inactive	United States	62/396,045		
2206	P109109	Inactive	United States	15/435,045	US-2018-0232627-A1	
2207	P109194Z	Inactive	United States	62/413,576		
2208	P109197Z	Inactive	United States	62/398,322		
2209	P109202Z	Inactive	United States	62/395,236		
2210	P109203Z	Inactive	United States	62/401,028		
2211	P109205Z	Inactive	United States	62/395,271		
2212	P109239Z	Inactive	United States	62/397,408		
2213	P109288Z	Inactive	United States	62/398,345		
2214	P109291Z	Inactive	United States	62/398,356		
2215	P109309Z	Inactive	United States	62/397,052		
2216	P109310Z	Inactive	United States	62/397,697		
2217	P109452Z	Inactive	United States	62/397,698		
2218	P109453Z	Inactive	United States	62/399,092		
2219	P109463Z	Inactive	United States	62/401,748		
2220	P109464Z	Inactive	United States	62/401,765		
2221	P109467Z	Inactive	United States	62/400,154		
2222	P109476Z	Inactive	United States	62/406,240		
2223	P109477Z	Inactive	United States	62/398,432		
2224	P109488Z	Inactive	United States	62/402,443		
2225	P109489Z	Inactive	United States	62/401,734		
2226	P109566	Inactive	United States	15/388,523	US-2018-0184392-A1	
2227	P109567	Inactive	United States	15/391,601	US-2018-0027514-A1	
2228	P109570Z	Inactive	United States	62/399,967		
2229	P109575Z	Inactive	United States	62/402,477		
2230	P109614Z	Inactive	United States	62/401,747		
2231	P109615Z	Inactive	United States	62/401,027		
2232	P109616Z	Inactive	United States	62/401,425		
2233	P109617Z	Inactive	United States	62/401,431		
2234	P109619Z	Inactive	United States	62/401,434		
2235	P109621Z	Inactive	United States	62/402,047		
2236	P109625Z	Inactive	United States	62/402,056		
2237	P109626Z	Inactive	United States	62/401,427		
2238	P109628Z	Inactive	United States	62/401,714		
2239	P109630Z	Inactive	United States	62/401,721		
2240	P109632Z	Inactive	United States	62/402,050		
2241	P109634Z	Inactive	United States	62/401,719		
2242	P109635Z	Inactive	United States	62/401,529		
2243	P109636Z	Inactive	United States	62/401,535		
2244	P109643Z	Inactive	United States	62/402,052		
2245	P109648	Inactive	United States	15/373,033	US-2018-0165240-A1	
2246	P109705Z	Inactive	United States	62/403,838		
2247	P109743Z	Inactive	United States	62/402,974		
2248	P109744Z	Inactive	United States	62/402,941		
2249	P109745Z	Inactive	United States	62/402,976		

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2250	P109746Z	Inactive	United States	62/402,872		
2251	P109748Z	Inactive	United States	62/402,855		
2252	P109749Z	Inactive	United States	62/402,943		
2253	P109750Z	Inactive	United States	62/402,972		
2254	P109751Z	Inactive	United States	62/402,343		
2255	P109753	Inactive	United States	15/720,606	US-2019-0103347-A1	
2256	P109758Z	Inactive	United States	62/402,340		
2257	P109759Z	Inactive	United States	62/402,522		
2258	P109760Z	Inactive	United States	62/402,868		
2259	P109761Z	Inactive	United States	62/402,530		
2260	P109764Z	Inactive	United States	62/402,865		
2261	P109765Z	Inactive	United States	62/402,348		
2262	P109766Z	Inactive	United States	62/402,850		
2263	P109785Z	Inactive	United States	62/402,858		
2264	P109802Z	Inactive	United States	62/405,345		
2265	P109837Z	Inactive	United States	62/406,509		
2266	P109859Z	Inactive	United States	62/406,771		
2267	P109991Z	Inactive	United States	62/405,029		
2268	P109993Z	Inactive	United States	62/405,041		
2269	P110003Z	Inactive	United States	62/405,037		
2270	P110004Z	Inactive	United States	62/405,042		
2271	P110006Z	Inactive	United States	62/408,502		
2272	P110008Z	Inactive	United States	62/406,208		
2273	P110010Z	Inactive	United States	62/410,256		
2274	P110032Z	Inactive	United States	62/407,854		
2275	P110110Z	Inactive	United States	62/409,107		
2276	P110113Z	Inactive	United States	62/409,110		
2277	P110170Z	Inactive	United States	62/410,021		
2278	P110397Z	Inactive	United States	62/411,293		
2279	P110458Z	Inactive	United States	62/406,872		
2280	P110670	Inactive	United States	15/611,104	US-2018-0349794-A1	
2281	P110671	Inactive	United States	15/462,428	US-2018-0268813-A1	
2282	P110674	Inactive	United States	15/621,029	US-2018-0357998-A1	
2283	P110890Z	Inactive	United States	62/411,298		
2284	P111159Z	Inactive	United States	62/412,048		
2285	P111160Z	Inactive	United States	62/412,066		
2286	P111161Z	Inactive	United States	62/412,076		
2287	P111162Z	Inactive	United States	62/412,106		
2288	P111212Z	Inactive	United States	62/412,117		
2289	P111213Z	Inactive	United States	62/412,137		
2290	P111214Z	Inactive	United States	62/412,154		
2291	P111215Z	Inactive	United States	62/412,162		
2292	P111361Z	Inactive	United States	62/413,033		
2293	P111378Z	Inactive	United States	62/412,914		
2294	P111379Z	Inactive	United States	62/413,057		

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2295	P111383Z	Inactive	United States	62/412,654		
2296	P111387Z	Inactive	United States	62/414,879		
2297	P111388Z	Inactive	United States	62/413,537		
2298	P111389Z	Inactive	United States	62/414,062		
2299	P111395Z	Inactive	United States	62/411,833		
2300	P111498	Inactive	United States	15/428,081	US-2018-0225063-A1	
2301	P111532Z	Inactive	United States	62/415,944		
2302	P111534Z	Inactive	United States	62/414,470		
2303	P111536Z	Inactive	United States	62/413,271		
2304	P111540Z	Inactive	United States	62/415,215		
2305	P111541Z	Inactive	United States	62/415,209		
2306	P111542Z	Inactive	United States	62/414,104		
2307	P111609Z	Inactive	United States	62/414,478		
2308	P111652Z	Inactive	United States	62/417,719		
2309	P111667Z	Inactive	United States	62/417,173		
2310	P111691Z	Inactive	United States	62/417,042		
2311	P111695	Inactive	United States	15/383,440	US-2018-0176901-A1	
2312	P111721Z	Inactive	United States	62/417,906		
2313	P111723Z	Inactive	United States	62/417,174		
2314	P111724Z	Inactive	United States	62/417,175		
2315	P111764Z	Inactive	United States	62/419,703		
2316	P111765Z	Inactive	United States	62/417,592		
2317	P111766Z	Inactive	United States	62/418,090		
2318	P111767Z	Inactive	United States	62/417,919		
2319	P111768Z	Inactive	United States	62/417,814		
2320	P111770Z	Inactive	United States	62/417,582		
2321	P111773Z	Inactive	United States	62/417,589		
2322	P111774Z	Inactive	United States	62/417,597		
2323	P111775Z	Inactive	United States	62/417,178		
2324	P111780Z	Inactive	United States	62/497,069		
2325	P111784Z	Inactive	United States	62/418,088		
2326	P111785Z	Inactive	United States	62/417,924		
2327	P111786Z	Inactive	United States	62/418,124		
2328	P111788Z	Inactive	United States	62/418,094		
2329	P111789Z	Inactive	United States	62/417,927		
2330	P111791Z	Inactive	United States	62/418,087		
2331	P111793Z	Inactive	United States	62/418,125		
2332	P111795Z	Inactive	United States	62/418,127		
2333	P111796Z	Inactive	United States	62/418,132		
2334	P111812Z	Inactive	United States	62/418,108		
2335	P111813Z	Inactive	United States	62/418,115		
2336	P111814Z	Inactive	United States	62/418,117		
2337	P111816Z	Inactive	United States	62/418,097		
2338	P111817Z	Inactive	United States	62/418,134		
2339	P111819Z	Inactive	United States	62/418,116		

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2340	P111820Z	Inactive	United States	62/418,123		
2341	P111821Z	Inactive	United States	62/418,126		
2342	P111822Z	Inactive	United States	62/418,129		
2343	P111823Z	Inactive	United States	62/418,131		
2344	P111824Z	Inactive	United States	62/418,536		
2345	P111825Z	Inactive	United States	62/418,470		
2346	P111826Z	Inactive	United States	62/418,492		
2347	P111828Z	Inactive	United States	62/418,957		
2348	P111829Z	Inactive	United States	62/421,810		
2349	P111837Z	Inactive	United States	62/418,483		
2350	P111838Z	Inactive	United States	62/420,933		
2351	P111841	Inactive	United States	15/384,934	US-2018-0176921-A1	
2352	P111842	Inactive	United States	15/388,345	US-2018-0184385-A1	
2353	P111879	Inactive	United States	15/391,210	US-2018-0183908-A1	
2354	P111927Z	Inactive	United States	62/424,245		
2355	P111928Z	Inactive	United States	62/417,587		
2356	P111929Z	Inactive	United States	62/419,720		
2357	P111931Z	Inactive	United States	62/421,132		
2358	P111932Z	Inactive	United States	62/421,101		
2359	P111942Z	Inactive	United States	62/421,819		
2360	P111943Z	Inactive	United States	62/421,130		
2361	P111950	Inactive	United States	15/393,461	US-2018-0192369-A1	
2362	P111974Z	Inactive	United States	62/421,687		
2363	P111975Z	Inactive	United States	62/422,678		
2364	P111976	Inactive	United States	15/376,124	US-2018-0165799-A1	
2365	P111977Z	Inactive	United States	62/426,723		
2366	P111981Z	Inactive	United States	62/425,750		
2367	P111984Z	Inactive	United States	62/421,842		
2368	P112030Z	Inactive	United States	62/422,393		
2369	P112033Z	Inactive	United States	62/421,832		
2370	P112034Z	Inactive	United States	62/421,847		
2371	P112146Z	Inactive	United States	62/423,035		
2372	P112148Z	Inactive	United States	62/423,042		
2373	P112149Z	Inactive	United States	62/423,046		
2374	P112150Z	Inactive	United States	62/424,234		
2375	P112247Z	Inactive	United States	62/424,232		
2376	P112248Z	Inactive	United States	62/424,621		
2377	P112249	Inactive	United States	15/390,014	US-2018-0183701-A1	
2378	P112329Z	Inactive	United States	62/423,643		
2379	P112344	Inactive	United States	15/389,922	US-2018-0184427-A1	
2380	P112345	Inactive	United States	15/613,353	US-2018-0352397-A1	
2381	P112378Z	Inactive	United States	62/427,306		
2382	P112393Z	Inactive	United States	62/428,636		
2383	P112440Z	Inactive	United States	62/428,218		
2384	P112441Z	Inactive	United States	62/427,896		

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2385	P112454Z	Inactive	United States	62/425,873		
2386	P112462Z	Inactive	United States	62/428,337		
2387	P112476Z	Inactive	United States	62/430,194		
2388	P112541Z	Inactive	United States	62/430,200		
2389	P112551Z	Inactive	United States	62/430,986		
2390	P112565-C1	Inactive	United States	16/587,466		
2391	P112566PCT-US-C1	Inactive	United States	16/989,951		
2392	P112655	Inactive	United States	15/456,918	US-2018-0260699-A1	
2393	P112657Z	Inactive	United States	62/432,622		
2394	P112673Z	Inactive	United States	62/432,998		
2395	P112674Z	Inactive	United States	62/433,025		
2396	P112686Z	Inactive	United States	62/432,902		
2397	P112690Z	Inactive	United States	62/431,294		
2398	P112691Z	Inactive	United States	62/431,298		
2399	P112694Z	Inactive	United States	62/433,651		
2400	P112781Z	Inactive	United States	62/435,364		
2401	P112787Z	Inactive	United States	62/434,925		
2402	P112868	Inactive	United States	15/636,370	US-2019-0005677-A1	
2403	P112903Z	Inactive	United States	62/437,132		
2404	P112908Z	Inactive	United States	62/435,575		
2405	P112909Z	Inactive	United States	62/433,654		
2406	P112911Z	Inactive	United States	62/439,348		
2407	P112913Z	Inactive	United States	62/433,653		
2408	P112931Z	Inactive	United States	62/437,140		
2409	P112935Z	Inactive	United States	62/437,461		
2410	P112946Z	Inactive	United States	62/437,887		
2411	P113063Z	Inactive	United States	62/436,973		
2412	P113064Z	Inactive	United States	62/436,282		
2413	P113068Z	Inactive	United States	62/438,224		
2414	P113072Z	Inactive	United States	62/437,377		
2415	P113075Z	Inactive	United States	62/442,872		
2416	P113079Z	Inactive	United States	62/444,102		
2417	P113080Z	Inactive	United States	62/444,207		
2418	P113081Z	Inactive	United States	62/444,208		
2419	P113087Z	Inactive	United States	62/442,034		
2420	P113088Z	Inactive	United States	62/443,723		
2421	P113091Z	Inactive	United States	62/440,543		
2422	P113092Z	Inactive	United States	62/440,530		
2423	P113240Z	Inactive	United States	62/444,914		
2424	P113248Z	Inactive	United States	62/444,501		
2425	P113257Z	Inactive	United States	62/446,064		
2426	P113261Z	Inactive	United States	62/443,341		
2427	P113263Z	Inactive	United States	62/444,113		
2428	P113264Z	Inactive	United States	62/444,117		
2429	P113265Z	Inactive	United States	62/443,113		

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2430	P113271Z	Inactive	United States	62/442,877		
2431	P113274Z	Inactive	United States	62/444,106		
2432	P113285Z	Inactive	United States	62/443,521		
2433	P113288Z	Inactive	United States	62/443,570		
2434	P113290Z	Inactive	United States	62/444,120		
2435	P113294Z	Inactive	United States	62/444,467		
2436	P113313Z	Inactive	United States	62/445,361		
2437	P113317Z	Inactive	United States	62/444,243		
2438	P113322Z	Inactive	United States	62/444,204		
2439	P113324Z	Inactive	United States	62/444,123		
2440	P113325Z	Inactive	United States	62/444,205		
2441	P113328Z	Inactive	United States	62/444,247		
2442	P113330Z	Inactive	United States	62/445,516		
2443	P113355Z	Inactive	United States	62/445,998		
2444	P113459Z	Inactive	United States	62/445,981		
2445	P113545Z	Inactive	United States	62/449,906		
2446	P113593	Inactive	United States	15/636,880	US-2019-0007253-A1	
2447	P113599	Inactive	United States	15/621,049	US-2018-0359011-A1	
2448	P113601-C1	Inactive	United States	16/379,741		
2449	P113702	Inactive	United States	15/483,421	US-2018-0293974-A1	
2450	P113713Z	Inactive	United States	62/450,448		
2451	P113714Z	Inactive	United States	62/455,497		
2452	P113715Z	Inactive	United States	62/448,147		
2453	P113793Z	Inactive	United States	62/450,170		
2454	P113878Z	Inactive	United States	62/451,610		
2455	P113946Z	Inactive	United States	62/451,619		
2456	P114012Z	Inactive	United States	62/451,420		
2457	P114013Z	Inactive	United States	62/451,507		
2458	P114165	Inactive	United States	15/474,251	US-2018-0286815-A1	
2459	P114288	Inactive	United States	15/473,047	US-2018-0070353-A1	
2460	P114301Z	Inactive	United States	62/450,766		
2461	P114351Z	Inactive	United States	62/453,581		
2462	P114352Z	Inactive	United States	62/452,041		
2463	P114353Z	Inactive	United States	62/453,591		
2464	P114354Z	Inactive	United States	62/453,604		
2465	P114394Z	Inactive	United States	62/461,140		
2466	P114409Z	Inactive	United States	62/435,576		
2467	P114410Z	Inactive	United States	62/446,278		
2468	P114533Z	Inactive	United States	62/443,345		
2469	P114534Z	Inactive	United States	62/454,577		
2470	P114538Z	Inactive	United States	62/454,453		
2471	P114541Z	Inactive	United States	62/453,362		
2472	P114543Z	Inactive	United States	62/453,381		
2473	P114590	Inactive	United States	15/637,123	US-2019-0007966-A1	
2474	P114632Z	Inactive	United States	62/455,334		

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2475	P114633Z	Inactive	United States	62/455,293		
2476	P114742Z	Inactive	United States	62/453,971		
2477	P114744Z	Inactive	United States	62/453,969		
2478	P114754Z	Inactive	United States	62/455,225		
2479	P114755Z	Inactive	United States	62/454,668		
2480	P114756Z	Inactive	United States	62/454,669		
2481	P114759Z	Inactive	United States	62/453,967		
2482	P114760Z	Inactive	United States	62/454,471		
2483	P114761Z	Inactive	United States	62/455,205		
2484	P114762Z	Inactive	United States	62/453,979		
2485	P114763Z	Inactive	United States	62/455,198		
2486	P114767Z	Inactive	United States	62/454,461		
2487	P114768Z	Inactive	United States	62/454,671		
2488	P114770Z	Inactive	United States	62/454,466		
2489	P114777Z	Inactive	United States	62/454,463		
2490	P114778Z	Inactive	United States	62/454,574		
2491	P114783Z	Inactive	United States	62/455,405		
2492	P114785Z	Inactive	United States	62/454,576		
2493	P114793Z	Inactive	United States	62/455,415		
2494	P114794Z	Inactive	United States	62/455,202		
2495	P114796Z	Inactive	United States	62/455,403		
2496	P114801Z	Inactive	United States	62/455,229		
2497	P114802Z	Inactive	United States	62/454,674		
2498	P114803Z	Inactive	United States	62/455,443		
2499	P114804Z	Inactive	United States	62/455,483		
2500	P114872Z	Inactive	United States	62/455,396		
2501	P114873Z	Inactive	United States	62/455,488		
2502	P114874Z	Inactive	United States	62/455,480		
2503	P114884Z	Inactive	United States	62/455,438		
2504	P114885Z	Inactive	United States	62/455,486		
2505	P114888Z	Inactive	United States	62/455,491		
2506	P114889Z	Inactive	United States	62/455,493		
2507	P114890Z	Inactive	United States	62/457,111		
2508	P115027	Inactive	United States	15/447,751	US-2018-0254805-A1	
2509	P115092Z	Inactive	United States	62/458,220		
2510	P115223Z	Inactive	United States	62/453,975		
2511	P115225Z	Inactive	United States	62/457,600		
2512	P115294Z	Inactive	United States	62/458,739		
2513	P115360Z	Inactive	United States	62/459,328		
2514	P115402Z	Inactive	United States	62/465,602		
2515	P115410Z	Inactive	United States	62/457,028		
2516	P115412Z	Inactive	United States	62/457,596		
2517	P115413Z	Inactive	United States	62/457,595		
2518	P115417Z	Inactive	United States	62/458,378		
2519	P115420Z	Inactive	United States	62/458,382		

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2520	P115435Z	Inactive	United States	62/460,337		
2521	P115463Z	Inactive	United States	62/461,583		
2522	P115468Z	Inactive	United States	62/463,985		
2523	P115469Z	Inactive	United States	62/461,646		
2524	P115478Z	Inactive	United States	62/460,605		
2525	P115479Z	Inactive	United States	62/460,603		
2526	P115604Z	Inactive	United States	62/462,590		
2527	P115606Z	Inactive	United States	62/464,672		
2528	P115612Z	Inactive	United States	62/463,360		
2529	P115657	Inactive	United States	15/614,817		9,973,370
2530	P115729Z	Inactive	United States	62/462,181		
2531	P115732Z	Inactive	United States	62/463,894		
2532	P115780Z	Inactive	United States	62/464,004		
2533	P115781Z	Inactive	United States	62/464,083		
2534	P115782Z	Inactive	United States	62/464,110		
2535	P115783Z	Inactive	United States	62/464,143		
2536	P115793Z	Inactive	United States	62/464,228		
2537	P115826Z	Inactive	United States	62/464,687		
2538	P115828Z	Inactive	United States	62/465,082		
2539	P115829Z	Inactive	United States	62/467,748		
2540	P115874Z	Inactive	United States	62/465,365		
2541	P115875Z	Inactive	United States	62/465,498		
2542	P115997Z	Inactive	United States	62/466,873		
2543	P116003Z	Inactive	United States	62/466,884		
2544	P116004Z	Inactive	United States	62/468,217		
2545	P116064Z	Inactive	United States	62/468,175		
2546	P116065Z	Inactive	United States	62/468,204		
2547	P116073Z	Inactive	United States	62/466,877		
2548	P116074Z	Inactive	United States	62/468,219		
2549	P116168Z	Inactive	United States	62/479,070		
2550	P116184Z	Inactive	United States	62/467,637		
2551	P116197Z	Inactive	United States	62/467,636		
2552	P116316Z	Inactive	United States	62/469,990		
2553	P116317Z	Inactive	United States	62/470,088		
2554	P116318Z	Inactive	United States	62/470,093		
2555	P116321Z	Inactive	United States	62/471,241		
2556	P116451Z	Inactive	United States	62/469,397		
2557	P116454Z	Inactive	United States	62/469,777		
2558	P116462Z	Inactive	United States	62/470,699		
2559	P116675Z	Inactive	United States	62/471,236		
2560	P116693Z	Inactive	United States	62/472,890		
2561	P116726Z	Inactive	United States	62/471,696		
2562	P116727Z	Inactive	United States	62/471,694		
2563	P116731Z	Inactive	United States	62/471,259		
2564	P116744Z	Inactive	United States	62/471,481		

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2565	P116779Z	Inactive	United States	62/473,112		
2566	P116780Z	Inactive	United States	62/473,109		
2567	P116781Z	Inactive	United States	62/476,955		
2568	P116818Z	Inactive	United States	62/473,115		
2569	P116825Z	Inactive	United States	62/473,162		
2570	P116950Z	Inactive	United States	62/476,079		
2571	P116954Z	Inactive	United States	62/474,467		
2572	P116955Z	Inactive	United States	62/474,506		
2573	P116967Z	Inactive	United States	62/474,859		
2574	P116968Z	Inactive	United States	62/475,318		
2575	P116969Z	Inactive	United States	62/475,377		
2576	P116970Z	Inactive	United States	62/476,338		
2577	P116971Z	Inactive	United States	62/476,358		
2578	P116973Z	Inactive	United States	62/474,868		
2579	P116976Z	Inactive	United States	62/475,776		
2580	P116979Z	Inactive	United States	62/472,950		
2581	P116980Z	Inactive	United States	62/473,877		
2582	P117007Z	Inactive	United States	62/475,472		
2583	P117008Z	Inactive	United States	62/475,485		
2584	P117081Z	Inactive	United States	62/476,929		
2585	P117174Z	Inactive	United States	62/475,475		
2586	P117190Z	Inactive	United States	62/476,427		
2587	P117191Z	Inactive	United States	62/476,591		
2588	P117193Z	Inactive	United States	62/476,425		
2589	P117194Z	Inactive	United States	62/475,466		
2590	P117196Z	Inactive	United States	62/475,469		
2591	P117197Z	Inactive	United States	62/475,484		
2592	P117200Z	Inactive	United States	62/476,093		
2593	P117201Z	Inactive	United States	62/476,431		
2594	P117205Z	Inactive	United States	62/476,053		
2595	P117206Z	Inactive	United States	62/476,580		
2596	P117207Z	Inactive	United States	62/476,524		
2597	P117210Z	Inactive	United States	62/476,085		
2598	P117211Z	Inactive	United States	62/476,026		
2599	P117213Z	Inactive	United States	62/476,571		
2600	P117217Z	Inactive	United States	62/476,582		
2601	P117218Z	Inactive	United States	62/476,393		
2602	P117220Z	Inactive	United States	62/476,012		
2603	P117221Z	Inactive	United States	62/476,106		
2604	P117224Z	Inactive	United States	62/475,694		
2605	P117225Z	Inactive	United States	62/475,756		
2606	P117228Z	Inactive	United States	62/476,450		
2607	P117264Z	Inactive	United States	62/476,094		
2608	P117264Z2	Inactive	United States	62/477,609		
2609	P117266Z	Inactive	United States	62/476,437		

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2610	P117268Z	Inactive	United States	62/476,574		
2611	P117270Z	Inactive	United States	62/476,590		
2612	P117271Z	Inactive	United States	62/480,112		
2613	P117272Z	Inactive	United States	62/476,594		
2614	P117275Z	Inactive	United States	62/476,613		
2615	P117276Z	Inactive	United States	62/476,622		
2616	P117322Z	Inactive	United States	62/477,739		
2617	P117323Z	Inactive	United States	62/477,837		
2618	P117324Z	Inactive	United States	62/477,761		
2619	P117451Z	Inactive	United States	62/480,104		
2620	P117455Z	Inactive	United States	62/483,236		
2621	P117458Z	Inactive	United States	62/474,522		
2622	P117460Z	Inactive	United States	62/480,099		
2623	P117464Z	Inactive	United States	62/480,102		
2624	P117467Z	Inactive	United States	62/477,340		
2625	P117475Z	Inactive	United States	62/479,964		
2626	P117590Z	Inactive	United States	62/481,845		
2627	P117626Z	Inactive	United States	62/481,953		
2628	P117628Z	Inactive	United States	62/481,974		
2629	P117676Z	Inactive	United States	62/482,084		
2630	P117783Z	Inactive	United States	62/482,868		
2631	P117917Z	Inactive	United States	62/484,461		
2632	P117918Z	Inactive	United States	62/484,510		
2633	P117973Z	Inactive	United States	62/485,695		
2634	P118047-C1	Inactive	United States	16/545,446		
2635	P118123-C1	Inactive	United States	16/282,848		
2636	P118123Z	Inactive	United States	62/490,349		
2637	P118124Z	Inactive	United States	62/487,712		
2638	P118146Z	Inactive	United States	62/486,714		
2639	P118160Z	Inactive	United States	62/487,225		
2640	P118163Z	Inactive	United States	62/487,177		
2641	P118164Z	Inactive	United States	62/487,206		
2642	P118328Z	Inactive	United States	62/500,333		
2643	P118351Z	Inactive	United States	62/485,768		
2644	P118352Z	Inactive	United States	62/485,758		
2645	P118353Z	Inactive	United States	62/484,748		
2646	P118354Z	Inactive	United States	62/486,691		
2647	P118355Z	Inactive	United States	62/490,417		
2648	P118357Z	Inactive	United States	62/489,079		
2649	P118361Z	Inactive	United States	62/489,744		
2650	P118362Z	Inactive	United States	62/490,387		
2651	P118363Z	Inactive	United States	62/491,093		
2652	P118493Z	Inactive	United States	62/500,252		
2653	P118545Z	Inactive	United States	62/487,910		
2654	P118547Z	Inactive	United States	62/487,306		

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2655	P118612Z	Inactive	United States	62/502,368		
2656	P118613Z	Inactive	United States	62/500,779		
2657	P118614Z	Inactive	United States	62/500,243		
2658	P118615Z	Inactive	United States	62/501,622		
2659	P118617Z	Inactive	United States	62/502,367		
2660	P118618Z	Inactive	United States	62/501,623		
2661	P118940Z	Inactive	United States	62/501,637		
2662	P118950Z	Inactive	United States	62/502,372		
2663	P118952Z	Inactive	United States	62/502,384		
2664	P118953Z	Inactive	United States	62/501,309		
2665	P118958Z	Inactive	United States	62/502,517		
2666	P118959Z	Inactive	United States	62/502,148		
2667	P118960Z	Inactive	United States	62/502,515		
2668	P118961Z	Inactive	United States	62/502,145		
2669	P118964Z	Inactive	United States	62/502,087		
2670	P118965Z	Inactive	United States	62/502,524		
2671	P118966Z	Inactive	United States	62/501,549		
2672	P118967Z	Inactive	United States	62/501,552		
2673	P118968Z	Inactive	United States	62/502,509		
2674	P118970Z	Inactive	United States	62/501,638		
2675	P118971Z	Inactive	United States	62/501,652		
2676	P118972Z	Inactive	United States	62/501,880		
2677	P118973Z	Inactive	United States	62/501,883		
2678	P118976Z	Inactive	United States	62/501,884		
2679	P118977Z	Inactive	United States	62/501,887		
2680	P118978Z	Inactive	United States	62/502,520		
2681	P118979Z	Inactive	United States	62/502,519		
2682	P118980Z	Inactive	United States	62/502,514		
2683	P118983Z	Inactive	United States	62/502,512		
2684	P118984Z	Inactive	United States	62/502,393		
2685	P118986Z	Inactive	United States	62/502,387		
2686	P118988Z	Inactive	United States	62/502,531		
2687	P118990Z	Inactive	United States	62/502,534		
2688	P118991Z	Inactive	United States	62/502,537		
2689	P118992Z	Inactive	United States	62/503,197		
2690	P118995Z	Inactive	United States	62/503,561		
2691	P118996Z	Inactive	United States	62/504,231		
2692	P119023Z	Inactive	United States	62/505,529		
2693	P119024Z	Inactive	United States	62/508,121		
2694	P119078Z	Inactive	United States	62/476,407		
2695	P119096Z	Inactive	United States	62/507,329		
2696	P119139Z	Inactive	United States	62/510,889		
2697	P119140Z	Inactive	United States	62/510,650		
2698	P119217Z	Inactive	United States	62/512,247		
2699	P119363Z	Inactive	United States	62/512,122		

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2700	P119410Z	Inactive	United States	62/515,939		
2701	P119427Z	Inactive	United States	62/514,630		
2702	P119439Z	Inactive	United States	62/514,077		
2703	P119444Z	Inactive	United States	62/515,677		
2704	P119483Z	Inactive	United States	62/514,517		
2705	P119496Z	Inactive	United States	62/517,693		
2706	P119580Z	Inactive	United States	62/516,475		
2707	P119590Z	Inactive	United States	62/516,338		
2708	P119591Z	Inactive	United States	62/515,972		
2709	P119642Z	Inactive	United States	62/521,236		
2710	P119726Z	Inactive	United States	62/521,025		
2711	P119727Z	Inactive	United States	62/517,393		
2712	P119728Z	Inactive	United States	62/517,664		
2713	P119729Z	Inactive	United States	62/517,803		
2714	P119730Z	Inactive	United States	62/516,342		
2715	P119732Z	Inactive	United States	62/518,488		
2716	P119735Z	Inactive	United States	62/518,490		
2717	P119746Z	Inactive	United States	62/519,301		
2718	P119753Z	Inactive	United States	62/521,928		
2719	P119758Z	Inactive	United States	62/520,936		
2720	P119794Z	Inactive	United States	62/519,705		
2721	P119796Z	Inactive	United States	62/518,848		
2722	P119839Z	Inactive	United States	62/521,803		
2723	P119840Z	Inactive	United States	62/521,810		
2724	P119852Z	Inactive	United States	62/522,184		
2725	P119853Z	Inactive	United States	62/522,180		
2726	P119854Z	Inactive	United States	62/524,552		
2727	P119876Z	Inactive	United States	62/520,874		
2728	P119880Z	Inactive	United States	62/520,878		
2729	P119882Z	Inactive	United States	62/522,558		
2730	P119883Z	Inactive	United States	62/521,239		
2731	P119885Z	Inactive	United States	62/521,238		
2732	P119892Z	Inactive	United States	62/520,849		
2733	P119896Z	Inactive	United States	62/521,108		
2734	P119897Z	Inactive	United States	62/521,243		
2735	P119898Z	Inactive	United States	62/520,844		
2736	P119899Z	Inactive	United States	62/520,843		
2737	P119900Z	Inactive	United States	62/520,846		
2738	P119901Z	Inactive	United States	62/520,851		
2739	P119902Z	Inactive	United States	62/520,871		
2740	P119903Z	Inactive	United States	62/520,864		
2741	P119906Z	Inactive	United States	62/522,557		
2742	P119907Z	Inactive	United States	62/522,515		
2743	P119915Z	Inactive	United States	62/525,594		
2744	P119916Z	Inactive	United States	62/527,746		

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2745	P119918Z	Inactive	United States	62/523,380		
2746	P119919Z	Inactive	United States	62/524,633		
2747	P119920Z	Inactive	United States	62/525,229		
2748	P119944Z	Inactive	United States	62/524,755		
2749	P119946Z	Inactive	United States	62/524,761		
2750	P119989Z	Inactive	United States	62/526,205		
2751	P120062Z	Inactive	United States	62/527,754		
2752	P120063Z	Inactive	United States	62/525,846		
2753	P120064Z	Inactive	United States	62/525,855		
2754	P120111Z	Inactive	United States	62/525,007		
2755	P120112Z	Inactive	United States	62/525,419		
2756	P120113Z	Inactive	United States	62/526,208		
2757	P120114Z	Inactive	United States	62/526,864		
2758	P120115Z	Inactive	United States	62/525,003		
2759	P120148Z	Inactive	United States	62/525,417		
2760	P120216Z	Inactive	United States	62/529,718		
2761	P120217Z	Inactive	United States	62/527,574		
2762	P120219Z	Inactive	United States	62/528,778		
2763	P120265Z	Inactive	United States	62/529,254		
2764	P120376Z	Inactive	United States	62/527,818		
2765	P120424Z	Inactive	United States	62/532,012		
2766	P120601Z	Inactive	United States	62/532,607		
2767	P120733Z	Inactive	United States	62/541,508		
2768	P120740Z	Inactive	United States	62/539,372		
2769	P120741Z	Inactive	United States	62/539,619		
2770	P120742Z	Inactive	United States	62/539,627		
2771	P120744Z	Inactive	United States	62/540,990		
2772	P52971	Inactive	United States	13/931,916	US-2014-0192809-A1	9,258,767
2773	P52971Z	Inactive	United States	61/749,906		
2774	P53128C	Inactive	United States	14/578,660	US-2015-0110051-A1	
2775	P53128-C2	Inactive	United States	16/239,675		
2776	P53128Z	Inactive	United States	61/750,335		
2777	P53164Z	Inactive	United States	61/753,108		
2778	P53342Z	Inactive	United States	61/752,386		
2779	P53416	Inactive	United States	13/838,561	US-2014-0269362-A1	
2780	P53504Z	Inactive	United States	61/753,914		
2781	P53587Z	Inactive	United States	61/756,548		
2782	P54211	Inactive	United States	13/929,306	US-2015-0003262-A1	9,008,237
2783	P54497US	Inactive	United States	14/127,466	US-2014-0269670-A1	9,144,047
2784	P54497Z	Inactive	United States	61/763,429		
2785	P54497Z (2)	Inactive	United States	61/763,297		
2786	P54499USC-C1	Inactive	United States	16/388,438		
2787	P54499Z	Inactive	United States	61/761,167		
2788	P54509Z	Inactive	United States	61/766,322		
2789	P54649Z	Inactive	United States	61/769,022		

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2790	P54652Z	Inactive	United States	61/768,330		
2791	P54838Z	Inactive	United States	61/771,698		
2792	P54856	Inactive	United States	14/227,273	US-2015-0282040-A1	9,578,588
2793	P54859US	Inactive	United States	14/127,797	US-2015-0039772-A1	
2794	P54865US	Inactive	United States	13/976,500	US-2014-0331045-A1	9,078,131
2795	P54866US	Inactive	United States	14/127,794	US-2015-0223015-A1	
2796	P54867US	Inactive	United States	14/124,798	US-2014-0254566-A1	9,295,015
2797	P54867Z	Inactive	United States	61/763,931		
2798	P54885C	Inactive	United States	14/753,117		
2799	P54900	Inactive	United States	13/935,594	US-2015-0008476-A1	9,356,013
2800	P55012Z	Inactive	United States	61/787,072		
2801	P55273Z	Inactive	United States	61/806,821		
2802	P55483Z	Inactive	United States	61/808,597		
2803	P55507Z	Inactive	United States	61/809,988		
2804	P55609	Inactive	United States	14/156,674	US-2015-0295611-A1	9,544,002
2805	P55843	Inactive	United States	13/931,899	US-2015-0001713-A1	
2806	P55863Z	Inactive	United States	61/816,662		
2807	P55864US	Inactive	United States	14/411,382	US-2016-0225694-A1	
2808	P55982C2-C1	Inactive	United States	16/257,798		
2809	P56033US	Inactive	United States	14/125,683	US-2016-0044580-A1	
2810	P56046Z	Inactive	United States	61/820,021		
2811	P56102US	Inactive	United States	14/779,999	US-2016-0036701-A1	
2812	P56102Z	Inactive	United States	61/820,512		
2813	P56178Z	Inactive	United States	61/823,980		
2814	P56179	Inactive	United States	14/089,374	US-2014-0341120-A1	
2815	P56179C	Inactive	United States	15/439,629	US-2017-0163737-A1	
2816	P56179Z	Inactive	United States	61/824,028		
2817	P56282Z	Inactive	United States	61/824,338		
2818	P56343Z	Inactive	United States	61/826,104		
2819	P56344Z	Inactive	United States	61/826,109		
2820	P56386	Inactive	United States	14/102,894	US-2014-0198637-A1	
2821	P56447Z	Inactive	United States	61/829,391		
2822	P56448Z	Inactive	United States	61/829,373		
2823	P56478	Inactive	United States	14/228,569	US-2015-0282216-A1	9,338,806
2824	P56512Z	Inactive	United States	61/829,968		
2825	P56646US	Inactive	United States	14/368,206	US-2015-0139001-A1	
2826	P56647Z	Inactive	United States	61/821,634		
2827	P56787	Inactive	United States	14/499,478	US-2015-0092583-A1	9,544,121
2828	P57094	Inactive	United States	14/231,679	US-2016-0373939-A1	9,781,612
2829	P57094-C1	Inactive	United States	15/699,432		
2830	P57274	Inactive	United States	14/038,248	US-2015-0084202-A1	9,209,143
2831	P57459Z	Inactive	United States	61/841,231		
2832	P59371Z	Inactive	United States	61/843,829		
2833	P59372Z	Inactive	United States	61/843,826		
2834	P59747	Inactive	United States	14/141,562	US-2015-0189523-A1	

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2835	P59825	Inactive	United States	13/912,905	US-2014-0363026-A1	8,923,439
2836	P59830	Inactive	United States	13/598,412		8,638,251
2837	P59832	Inactive	United States	13/193,003	US-2013-0027092-A1	
2838	P59844Z	Inactive	United States	61/859,125		
2839	P59845Z	Inactive	United States	61/859,121		
2840	P59849	Inactive	United States	13/902,562	US-2014-0347109-A1	8,922,253
2841	P59859	Inactive	United States	13/902,580		8,872,558
2842	P59863	Inactive	United States	12/887,719	US-2012-0071111-A1	8,526,905
2843	P59889	Inactive	United States	13/040,495	US-2012-0224518-A1	8,787,349
2844	P59890	Inactive	United States	13/894,275	US-2014-0340067-A1	9,104,223
2845	P59895	Inactive	United States	13/895,139	US-2014-0340131-A1	8,885,788
2846	P59903	Inactive	United States	12/860,447	US-2012-0045000-A1	8,593,231
2847	P59905	Inactive	United States	13/489,988	US-2013-0331040-A1	8,855,579
2848	P59905C	Inactive	United States	14/478,402	US-2014-0378073-A1	9,106,327
2849	P59907	Inactive	United States	12/859,601	US-2012-0046005-A1	8,559,904
2850	P59916	Inactive	United States	13/026,425	US-2012-0206209-A1	
2851	P59921	Inactive	United States	13/195,486	US-2013-0033335-A1	
2852	P59962C	Inactive	United States	15/488,777		
2853	P60233Z	Inactive	United States	61/863,902		
2854	P60335Z	Inactive	United States	61/866,246		
2855	P60549US	Inactive	United States	14/766,858	US-2016-0007319-A1	
2856	P60555US	Inactive	United States	14/127,607	US-2015-0223092-A1	9,532,255
2857	P60677Z	Inactive	United States	62/184,143		
2858	P60827Z	Inactive	United States	61/872,591		
2859	P60833	Inactive	United States	14/671,183	US-2016-0286496-A1	9,820,236
2860	P60947C	Inactive	United States	15/289,872		
2861	P60947Z	Inactive	United States	61/876,699		
2862	P60949Z	Inactive	United States	61/876,196		
2863	P60950Z	Inactive	United States	61/876,700		
2864	P60951Z	Inactive	United States	61/876,706		
2865	P61026Z	Inactive	United States	61/879,014		
2866	P61144US	Inactive	United States	15/026,443	US-2016-0249390-A1	
2867	P61192Z	Inactive	United States	61/883,127		
2868	P61527US	Inactive	United States	15/038,823	US-2017-0024197-A1	
2869	P61528US	Inactive	United States	15/026,609	US-2016-0234807-A1	
2870	P61532US	Inactive	United States	15/026,188	US-2016-0219531-A1	9,838,984
2871	P61532Z	Inactive	United States	61/901,547		
2872	P61627	Inactive	United States	14/142,793	US-2015-0189328-A1	
2873	P61629US-C1	Inactive	United States	16/673,789		
2874	P61815Z	Inactive	United States	61/893,792		
2875	P61961US	Inactive	United States	15/122,317	US-2016-0374053-A1	9,913,253
2876	P61993Z	Inactive	United States	61/898,425		
2877	P62055US	Inactive	United States	15/106,277	US-2017-0034317-A1	
2878	P62057US	Inactive	United States	15/039,723	US-2017-0003373-A1	
2879	P62059	Inactive	United States	14/142,840	US-2015-0189686-A1	9,801,226

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2880	P62060US	Inactive	United States	15/300,275	US-2017-0141842-A1	
2881	P62061	Inactive	United States	14/184,721	US-2015-0237647-A1	9,955,492
2882	P62062US	Inactive	United States	15/108,573	US-2016-0329929-A1	9,819,386
2883	P62077US	Inactive	United States	15/306,427	US-2017-0048899-A1	
2884	P62429Z	Inactive	United States	61/906,059		
2885	P62513US	Inactive	United States	14/761,876	US-2016-0285572-A1	9,544,072
2886	P62693Z	Inactive	United States	61/911,391		
2887	P62724	Inactive	United States	14/207,362	US-2015-0262707-A1	9,236,144
2888	P62726	Inactive	United States	14/227,977	US-2015-0282367-A1	
2889	P62882	Inactive	United States	14/193,509	US-2014-0247860-A1	
2890	P62989	Inactive	United States	14/225,928	US-2015-0278131-A1	
2891	P63200	Inactive	United States	14/137,176	US-2015-0181492-A1	9,913,191
2892	P63200-C1	Inactive	United States	15/865,528		
2893	P63343	Inactive	United States	14/229,812	US-2016-0294584-A1	9,698,863
2894	P63344US	Inactive	United States	15/115,973	US-2017-0171884-A1	
2895	P63346C-C1	Inactive	United States	16/446,896		
2896	P63346Z	Inactive	United States	61/940,214		
2897	P63349C	Inactive	United States	15/360,716		
2898	P63351	Inactive	United States	14/227,868	US-2015-0282088-A1	
2899	P63352	Inactive	United States	14/205,888	US-2015-0264530-A1	
2900	P63353	Inactive	United States	14/293,838	US-2015-0351123-A1	
2901	P63359Z	Inactive	United States	61/924,194		
2902	P63360-C1-C1	Inactive	United States	16/541,696		
2903	P63401C	Inactive	United States	15/351,316		
2904	P63470	Inactive	United States	14/569,251	US-2016-0173311-A1	9,806,929
2905	P63470-C1	Inactive	United States	15/797,718		
2906	P63542	Inactive	United States	14/226,474	US-2015-0281979-A1	
2907	P63579US	Inactive	United States	14/779,996	US-2016-0057697-A1	9,713,073
2908	P63726Z	Inactive	United States	61/933,845		
2909	P63728Z	Inactive	United States	61/933,841		
2910	P63729Z	Inactive	United States	61/933,842		
2911	P63731Z	Inactive	United States	61/933,844		
2912	P63733Z	Inactive	United States	61/933,851		
2913	P63736Z	Inactive	United States	61/933,847		
2914	P63768Z	Inactive	United States	61/933,865		
2915	P63770Z	Inactive	United States	61/933,853		
2916	P63771Z	Inactive	United States	61/933,850		
2917	P63772Z	Inactive	United States	61/933,848		
2918	P63773Z	Inactive	United States	61/933,855		
2919	P63777Z	Inactive	United States	61/933,869		
2920	P63778Z	Inactive	United States	61/933,875		
2921	P63782	Inactive	United States	14/575,101	US-2015-0223107-A1	
2922	P63782Z	Inactive	United States	61/933,872		
2923	P63786Z	Inactive	United States	61/933,877		
2924	P63788Z	Inactive	United States	61/933,876		

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2925	P63789Z	Inactive	United States	61/933,878		
2926	P63790Z	Inactive	United States	61/933,880		
2927	P63797Z	Inactive	United States	61/934,502		
2928	P63798Z	Inactive	United States	61/934,497		
2929	P63799Z	Inactive	United States	61/934,525		
2930	P63800Z	Inactive	United States	61/933,834		
2931	P63806	Inactive	United States	14/225,109	US-2015-0282072-A1	9,258,779
2932	P63808US	Inactive	United States	15/121,263	US-2017-0126293-A1	
2933	P63812	Inactive	United States	14/227,952	US-2015-0282032-A1	9,386,496
2934	P63813	Inactive	United States	14/227,070	US-2015-0281886-A1	
2935	P63819	Inactive	United States	14/318,902	US-2015-0381336-A1	
2936	P63820	Inactive	United States	14/227,440	US-2016-0252622-A1	
2937	P63821	Inactive	United States	14/486,029	US-2015-0215014-A1	9,148,208
2938	P63821Z	Inactive	United States	61/933,837		
2939	P63822Z	Inactive	United States	61/934,503		
2940	P63824Z	Inactive	United States	61/937,685		
2941	P63856	Inactive	United States	14/225,829	US-2015-0281998-A1	
2942	P63857US	Inactive	United States	14/778,511	US-2016-0295597-A1	
2943	P63923US	Inactive	United States	15/112,897	US-2016-0344531-A1	
2944	P63923Z	Inactive	United States	61/944,194		
2945	P63924US	Inactive	United States	15/113,214	US-2017-0005709-A1	
2946	P63924Z	Inactive	United States	61/944,273		
2947	P63941Z	Inactive	United States	61/943,946		
2948	P63942Z	Inactive	United States	61/943,963		
2949	P63943Z	Inactive	United States	61/943,950		
2950	P63944Z	Inactive	United States	61/943,953		
2951	P63945Z	Inactive	United States	61/943,966		
2952	P63946Z	Inactive	United States	61/943,960		
2953	P63949Z	Inactive	United States	61/943,967		
2954	P63952Z	Inactive	United States	61/943,975		
2955	P63955	Inactive	United States	14/582,990	US-2015-0245193-A1	9,609,502
2956	P63955Z	Inactive	United States	61/943,974		
2957	P64055US	Inactive	United States	15/112,904	US-2016-0337868-A1	
2958	P64055Z	Inactive	United States	61/946,154		
2959	P64056US	Inactive	United States	15/113,199	US-2017-0013467-A1	
2960	P64056Z	Inactive	United States	61/946,080		
2961	P64062Z	Inactive	United States	61/945,749		
2962	P64070Z	Inactive	United States	61/946,326		
2963	P64071Z	Inactive	United States	61/946,330		
2964	P64369	Inactive	United States	14/299,774	US-2015-0358314-A1	9,853,970
2965	P64409Z	Inactive	United States	61/952,751		
2966	P64416Z	Inactive	United States	61/952,750		
2967	P64417Z	Inactive	United States	61/952,780		
2968	P64434Z	Inactive	United States	61/953,632		
2969	P64435Z	Inactive	United States	61/953,627		

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2970	P64436Z	Inactive	United States	61/953,657		
2971	P64443Z	Inactive	United States	61/953,635		
2972	P64444Z	Inactive	United States	61/953,639		
2973	P64446Z	Inactive	United States	61/953,625		
2974	P64448Z	Inactive	United States	61/953,669		
2975	P64451Z	Inactive	United States	61/953,630		
2976	P64454Z	Inactive	United States	61/953,648		
2977	P64470-C1	Inactive	United States	15/693,887		
2978	P64470Z	Inactive	United States	61/953,617		
2979	P64552Z	Inactive	United States	61/954,424		
2980	P64629	Inactive	United States	14/700,382	US-2015-0373724-A1	9,794,097
2981	P64649Z	Inactive	United States	61/968,275		
2982	P64650Z	Inactive	United States	61/968,270		
2983	P64651Z	Inactive	United States	61/968,269		
2984	P64652Z	Inactive	United States	61/968,271		
2985	P64653Z	Inactive	United States	61/968,272		
2986	P64658	Inactive	United States	14/554,221	US-2015-0271692-A1	9,503,918
2987	P64658C	Inactive	United States	15/288,072	US-2017-0026945-A1	9,900,881
2988	P64658Z	Inactive	United States	61/968,281		
2989	P64659Z	Inactive	United States	61/968,282		
2990	P64662Z	Inactive	United States	61/968,277		
2991	P64670Z	Inactive	United States	61/968,284		
2992	P64672Z	Inactive	United States	61/968,288		
2993	P64679Z	Inactive	United States	61/968,584		
2994	P64680Z	Inactive	United States	61/968,588		
2995	P64782Z	Inactive	United States	61/969,028		
2996	P64802Z	Inactive	United States	61/969,778		
2997	P64803Z	Inactive	United States	61/969,782		
2998	P64814	Inactive	United States	14/582,023	US-2015-0271848-A1	9,942,793
2999	P64814Z	Inactive	United States	61/969,787		
3000	P64815Z	Inactive	United States	61/969,786		
3001	P64841Z	Inactive	United States	61/969,788		
3002	P64842Z	Inactive	United States	61/969,790		
3003	P64899US	Inactive	United States	15/122,564	US-2017-0105628-A1	
3004	P64991	Inactive	United States	14/317,311	US-2015-0063295-A1	9,794,816
3005	P65016	Inactive	United States	14/499,124	US-2015-0195717-A1	
3006	P65016C	Inactive	United States	14/583,654	US-2015-0195718-A1	
3007	P65017	Inactive	United States	14/318,445	US-2015-0029957-A1	
3008	P65247Z	Inactive	United States	61/973,376		
3009	P65671	Inactive	United States	14/332,224	US-2016-0021603-A1	9,386,515
3010	P65736-C1-C1	Inactive	United States	16/548,612		
3011	P65740	Inactive	United States	14/304,041	US-2015-0139205-A1	9,271,241
3012	P65740C2	Inactive	United States	15/477,542		
3013	P65753	Inactive	United States	14/315,587	US-2015-0381238-A1	10,033,435
3014	P65769	Inactive	United States	14/447,254	US-2015-0139118-A1	

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3015	P65769Z	Inactive	United States	61/976,951		
3016	P66021C	Inactive	United States	15/440,162		
3017	P66079	Inactive	United States	14/495,909	US-2016-0094930-A1	9,609,458
3018	P66303	Inactive	United States	14/316,316	US-2015-0382258-A1	9,572,108
3019	P66435US	Inactive	United States	15/119,613	US-2017-0063589-A1	
3020	P66713	Inactive	United States	14/323,213	US-2016-0007283-A1	9,288,757
3021	P66717Z	Inactive	United States	61/988,546		
3022	P66718	Inactive	United States	14/325,019	US-2016-0007289-A1	
3023	P66722	Inactive	United States	14/444,270		9,215,562
3024	P66724C2	Inactive	United States	15/393,350		
3025	P66724Z	Inactive	United States	61/988,827		
3026	P66726	Inactive	United States	14/455,283	US-2016-0044684-A1	
3027	P66761Z	Inactive	United States	61/985,382		
3028	P66762Z	Inactive	United States	61/984,682		
3029	P66763Z	Inactive	United States	61/984,671		
3030	P66764Z	Inactive	United States	61/984,679		
3031	P66765Z	Inactive	United States	61/984,683		
3032	P66766Z	Inactive	United States	61/984,678		
3033	P66767Z	Inactive	United States	61/984,669		
3034	P66983Z	Inactive	United States	61/986,256		
3035	P66984US-C1	Inactive	United States	15/939,022		
3036	P66984Z	Inactive	United States	61/986,250		
3037	P67004	Inactive	United States	14/575,870	US-2015-0312795-A1	9,521,576
3038	P67004Z	Inactive	United States	61/985,394		
3039	P67006Z	Inactive	United States	61/985,398		
3040	P67010Z	Inactive	United States	61/985,349		
3041	P67549	Inactive	United States	14/498,385	US-2015-0327121-A1	
3042	P67549Z	Inactive	United States	61/990,414		
3043	P67651Z	Inactive	United States	61/990,670		
3044	P67652Z	Inactive	United States	61/990,671		
3045	P67653Z	Inactive	United States	61/990,672		
3046	P67654Z	Inactive	United States	61/990,673		
3047	P67658	Inactive	United States	14/583,030	US-2015-0327312-A1	9,661,653
3048	P67658Z	Inactive	United States	61/990,679		
3049	P67686Z	Inactive	United States	61/990,613		
3050	P67689Z	Inactive	United States	61/990,619		
3051	P67700Z	Inactive	United States	61/990,609		
3052	P67704	Inactive	United States	14/670,729	US-2015-0327142-A1	
3053	P67704Z	Inactive	United States	61/990,685		
3054	P67706Z	Inactive	United States	61/990,687		
3055	P67753Z	Inactive	United States	61/990,690		
3056	P67755Z	Inactive	United States	61/990,691		
3057	P67782Z	Inactive	United States	61/990,912		
3058	P67789Z	Inactive	United States	61/991,730		
3059	P67975US	Inactive	United States	15/300,796	US-2017-0026887-A1	

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3060	P67975Z	Inactive	United States	61/992,706		
3061	P68029Z	Inactive	United States	61/994,023		
3062	P68432Z	Inactive	United States	62/003,354		
3063	P68432Z2	Inactive	United States	62/004,135		
3064	P68542Z	Inactive	United States	62/006,353		
3065	P68618Z	Inactive	United States	62/006,726		
3066	P68620Z	Inactive	United States	62/006,731		
3067	P68621Z	Inactive	United States	62/006,736		
3068	P68622Z	Inactive	United States	62/006,738		
3069	P68623Z	Inactive	United States	62/006,743		
3070	P68625Z	Inactive	United States	62/006,752		
3071	P68626Z	Inactive	United States	62/006,754		
3072	P69278	Inactive	United States	14/541,887	US-2015-0358117-A1	
3073	P69278Z	Inactive	United States	62/009,774		
3074	P69283Z	Inactive	United States	62/009,789		
3075	P69296Z	Inactive	United States	62/010,279		
3076	P69394	Inactive	United States	14/583,144	US-2016-0192138-A1	9,924,316
3077	P69557US	Inactive	United States	15/025,634	US-2016-0241366-A1	
3078	P69557Z	Inactive	United States	62/013,869		
3079	P69569Z	Inactive	United States	62/017,646		
3080	P69629Z	Inactive	United States	62/015,908		
3081	P69633	Inactive	United States	14/498,360	US-2015-0382341-A1	
3082	P69633Z	Inactive	United States	62/018,368		
3083	P69671US	Inactive	United States	15/112,080	US-2016-0345262-A1	
3084	P69671Z	Inactive	United States	62/016,534		
3085	P69761Z	Inactive	United States	62/020,313		
3086	P69762Z	Inactive	United States	62/018,360		
3087	P69763Z	Inactive	United States	62/020,314		
3088	P70070-C1	Inactive	United States	15/655,834		
3089	P70096Z	Inactive	United States	62/019,310		
3090	P70100Z	Inactive	United States	62/019,301		
3091	P70101Z	Inactive	United States	62/031,491		
3092	P70102Z	Inactive	United States	62/019,314		
3093	P70103Z	Inactive	United States	62/019,316		
3094	P70104Z	Inactive	United States	62/019,306		
3095	P70113Z	Inactive	United States	62/019,304		
3096	P70149	Inactive	United States	14/469,840	US-2016-0065287-A1	9,786,985
3097	P70166	Inactive	United States	14/556,272	US-2016-0157046-A1	
3098	P70170	Inactive	United States	14/666,608	US-2016-0286024-A1	9,571,624
3099	P70211	Inactive	United States	14/496,596	US-2015-0117241-A1	
3100	P70215	Inactive	United States	14/494,206	US-2015-0119015-A1	
3101	P70301	Inactive	United States	14/497,444	US-2016-0095157-A1	
3102	P70317	Inactive	United States	14/469,818	US-2016-0065286-A1	9,887,755
3103	P70317-C1	Inactive	United States	15/864,615		
3104	P70336Z	Inactive	United States	62/027,110		

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3105	P70337Z	Inactive	United States	62/020,583		
3106	P70338Z	Inactive	United States	62/035,807		
3107	P70417	Inactive	United States	14/575,187	US-2016-0182317-A1	9,819,557
3108	P70558US	Inactive	United States	15/501,385	US-2017-0238265-A1	9,924,474
3109	P70560	Inactive	United States	14/495,636	US-2016-0088143-A1	
3110	P70598Z	Inactive	United States	62/024,813		
3111	P70599US-C1-C1	Inactive	United States	16/448,634		
3112	P70599Z	Inactive	United States	62/024,801		
3113	P70650Z	Inactive	United States	62/026,277		
3114	P70711Z	Inactive	United States	62/027,146		
3115	P70712Z	Inactive	United States	62/027,148		
3116	P70714Z	Inactive	United States	62/027,170		
3117	P70788	Inactive	United States	14/670,435	US-2016-0029205-A1	9,516,521
3118	P70788Z	Inactive	United States	62/029,933		
3119	P70789Z	Inactive	United States	62/029,946		
3120	P70790Z	Inactive	United States	62/029,936		
3121	P70863Z	Inactive	United States	62/028,026		
3122	P70863Z2	Inactive	United States	62/065,214		
3123	P70865Z	Inactive	United States	62/031,054		
3124	P70866Z	Inactive	United States	62/028,746		
3125	P70867Z	Inactive	United States	62/028,744		
3126	P71192Z	Inactive	United States	62/036,477		
3127	P71225C	Inactive	United States	15/483,057		
3128	P71225Z	Inactive	United States	62/035,176		
3129	P71227Z	Inactive	United States	62/034,696		
3130	P71234Z	Inactive	United States	62/035,092		
3131	P71235Z	Inactive	United States	62/034,614		
3132	P71240Z	Inactive	United States	62/034,634		
3133	P71243Z	Inactive	United States	62/034,707		
3134	P71244Z	Inactive	United States	62/034,708		
3135	P71245Z	Inactive	United States	62/034,710		
3136	P71246Z	Inactive	United States	62/035,095		
3137	P71247Z	Inactive	United States	62/035,097		
3138	P71300	Inactive	United States	14/736,345	US-2016-0366393-A1	
3139	P71426Z	Inactive	United States	62/037,787		
3140	P71430Z	Inactive	United States	62/032,954		
3141	P71432C	Inactive	United States	15/450,382		
3142	P71432Z	Inactive	United States	62/037,763		
3143	P71437Z	Inactive	United States	62/036,952		
3144	P71438	Inactive	United States	14/671,958	US-2016-0044529-A1	9,913,305
3145	P71438Z	Inactive	United States	62/035,707		
3146	P71439Z	Inactive	United States	62/035,712		
3147	P71440Z	Inactive	United States	62/035,714		
3148	P71441Z	Inactive	United States	62/035,717		
3149	P71442Z	Inactive	United States	62/035,915		

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3150	P71443Z	Inactive	United States	62/035,720		
3151	P71492	Inactive	United States	14/865,159	US-2016-0119005-A1	9,794,023
3152	P71589Z	Inactive	United States	62/039,320		
3153	P71591Z	Inactive	United States	62/039,249		
3154	P71749	Inactive	United States	14/578,157	US-2016-0183269-A1	
3155	P71758Z	Inactive	United States	62/042,116		
3156	P71770Z	Inactive	United States	62/038,726		
3157	P71771Z	Inactive	United States	62/040,936		
3158	P71772US	Inactive	United States	15/327,167	US-2017-0164301-A1	9,961,646
3159	P71772Z	Inactive	United States	62/040,319		
3160	P71852US	Inactive	United States	15/315,218	US-2017-0201359-A1	
3161	P71903	Inactive	United States	14/864,870	US-2017-0094589-A1	9,942,833
3162	P72853Z	Inactive	United States	62/043,285		
3163	P72854Z	Inactive	United States	62/048,156		
3164	P73078US	Inactive	United States	14/915,849	US-2016-0205716-A1	
3165	P73188	Inactive	United States	14/573,687	US-2016-0182625-A1	
3166	P73194C	Inactive	United States	15/437,300	US-2017-0294116-A1	
3167	P73939	Inactive	United States	14/718,750	US-2016-0088594-A1	
3168	P73939Z	Inactive	United States	62/052,253		
3169	P73952Z	Inactive	United States	62/055,598		
3170	P73955Z	Inactive	United States	62/055,527		
3171	P73956Z	Inactive	United States	62/055,590		
3172	P73957Z	Inactive	United States	62/055,593		
3173	P73960US	Inactive	United States	15/508,824	US-2017-0251405-A1	
3174	P73960Z	Inactive	United States	62/059,742		
3175	P73961Z	Inactive	United States	62/055,591		
3176	P73964Z	Inactive	United States	62/055,600		
3177	P73965Z	Inactive	United States	62/055,602		
3178	P73969Z	Inactive	United States	62/059,747		
3179	P73970Z	Inactive	United States	62/056,414		
3180	P73973Z	Inactive	United States	62/059,745		
3181	P74014Z	Inactive	United States	62/055,589		
3182	P74165US	Inactive	United States	14/779,967	US-2016-0329272-A1	
3183	P74287	Inactive	United States	14/751,009	US-2016-0380739-A1	9,780,938
3184	P74589-C1-C1	Inactive	United States	16/853,434		
3185	P74589Z	Inactive	United States	62/064,353		
3186	P74602-C1	Inactive	United States	16/025,034	US-2019-0098482-A1	
3187	P74785Z	Inactive	United States	62/061,049		
3188	P74928X	Inactive	United States	15/463,548	US-2017-0257795-A1	
3189	P74928Z	Inactive	United States	62/068,849		
3190	P74937	Inactive	United States	14/524,902	US-2016-0119455-A1	
3191	P75222	Inactive	United States	14/753,616	US-2016-0380750-A1	9,954,670
3192	P75244US	Inactive	United States	15/329,752	US-2017-0222769-A1	
3193	P75244Z	Inactive	United States	62/072,251		
3194	P75245-C1-C1	Inactive	United States	16/228,108		

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3195	P75245Z	Inactive	United States	62/072,272		
3196	P75246Z	Inactive	United States	62/072,318		
3197	P76941Z	Inactive	United States	62/074,988		
3198	P77348-C1	Inactive	United States	16/184,649		
3199	P77348Z	Inactive	United States	62/075,381		
3200	P77390	Inactive	United States	14/672,162	US-2016-0284461-A1	
3201	P77489Z	Inactive	United States	62/075,028		
3202	P77493Z	Inactive	United States	62/075,428		
3203	P77494Z	Inactive	United States	62/074,354		
3204	P77496Z	Inactive	United States	62/075,688		
3205	P77505Z	Inactive	United States	62/075,684		
3206	P77506Z	Inactive	United States	62/075,675		
3207	P77514Z	Inactive	United States	62/076,096		
3208	P77515Z	Inactive	United States	62/076,083		
3209	P77517Z	Inactive	United States	62/076,362		
3210	P77520Z	Inactive	United States	62/076,645		
3211	P77522Z	Inactive	United States	62/076,647		
3212	P77525Z	Inactive	United States	62/076,652		
3213	P77604Z	Inactive	United States	62/079,366		
3214	P77632Z	Inactive	United States	62/081,630		
3215	P77877Z	Inactive	United States	62/078,629		
3216	P77884	Inactive	United States	14/669,195		
3217	P77884Z	Inactive	United States	62/087,053		
3218	P77885Z	Inactive	United States	62/087,027		
3219	P77886Z	Inactive	United States	62/087,042		
3220	P77902C	Inactive	United States	15/386,439		
3221	P77911	Inactive	United States	14/670,465	US-2016-0285571-A1	9,948,415
3222	P77992-C1	Inactive	United States	15/896,834		
3223	P77992Z	Inactive	United States	62/087,173		
3224	P78032Z	Inactive	United States	62/089,995		
3225	P78040	Inactive	United States	14/750,872	US-2016-0380791-A1	9,876,659
3226	P78054Z	Inactive	United States	62/304,027		
3227	P78227	Inactive	United States	14/671,635	US-2016-0165577-A1	
3228	P78227Z	Inactive	United States	62/086,908		
3229	P78232Z	Inactive	United States	62/086,037		
3230	P78235Z	Inactive	United States	62/086,075		
3231	P78301Z	Inactive	United States	62/091,939		
3232	P78304PCT-US	Inactive	United States	15/549,348	US-2018-0035387-A1	
3233	P78306	Inactive	United States	14/670,225	US-2016-0286011-A1	
3234	P78311	Inactive	United States	14/667,965	US-2016-0285596-A1	9,882,687
3235	P78538	Inactive	United States	15/043,764	US-2016-0278019-A1	
3236	P78668-C1	Inactive	United States	15/676,084		
3237	P78668Z	Inactive	United States	62/099,164		
3238	P78669Z	Inactive	United States	62/099,165		
3239	P78670Z	Inactive	United States	62/099,168		

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3240	P78674Z	Inactive	United States	62/100,102		
3241	P78675Z	Inactive	United States	62/100,105		
3242	P78676Z	Inactive	United States	62/100,109		
3243	P78726Z	Inactive	United States	62/100,146		
3244	P78815-C1	Inactive	United States	15/832,422		
3245	P78815Z	Inactive	United States	62/100,605		
3246	P78819	Inactive	United States	14/670,513	US-2016-0205616-A1	9,998,879
3247	P78819Z	Inactive	United States	62/100,982		
3248	P78843Z	Inactive	United States	62/101,918		
3249	P78901Z	Inactive	United States	62/093,984		
3250	P79025Z	Inactive	United States	62/102,219		
3251	P79122	Inactive	United States	14/743,807	US-2016-0204915-A1	
3252	P79122Z	Inactive	United States	62/103,142		
3253	P79160Z	Inactive	United States	62/105,818		
3254	P79168Z	Inactive	United States	62/105,634		
3255	P79324Z	Inactive	United States	62/105,282		
3256	P79391C-C1	Inactive	United States	16/151,725		
3257	P79391Z	Inactive	United States	62/105,822		
3258	P79414Z	Inactive	United States	62/106,039		
3259	P79454Z	Inactive	United States	62/103,708		
3260	P79456Z	Inactive	United States	62/104,630		
3261	P79457-C1	Inactive	United States	15/672,090	US-2017-0339639-A1	
3262	P79457Z	Inactive	United States	62/102,984		
3263	P79460Z	Inactive	United States	62/102,987		
3264	P79461Z	Inactive	United States	62/105,443		
3265	P79465Z	Inactive	United States	62/105,438		
3266	P79466US	Inactive	United States	15/538,175	US-2018-0014346-A1	
3267	P79466Z	Inactive	United States	62/105,456		
3268	P79514Z	Inactive	United States	62/107,218		
3269	P79525Z	Inactive	United States	62/163,755		
3270	P79568Z	Inactive	United States	62/129,407		
3271	P79605Z	Inactive	United States	62/107,548		
3272	P79657Z	Inactive	United States	62/108,102		
3273	P79658Z	Inactive	United States	62/108,179		
3274	P79976Z	Inactive	United States	62/109,464		
3275	P80014	Inactive	United States	14/859,404	US-2017-0086153-A1	9,832,747
3276	P80128Z	Inactive	United States	62/110,687		
3277	P80137Z	Inactive	United States	62/111,538		
3278	P80177Z	Inactive	United States	62/109,506		
3279	P80181Z	Inactive	United States	62/109,509		
3280	P80185Z	Inactive	United States	62/108,323		
3281	P80187Z	Inactive	United States	62/108,637		
3282	P80194Z	Inactive	United States	62/107,688		
3283	P80196Z	Inactive	United States	62/109,346		
3284	P80230Z	Inactive	United States	62/111,533		

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3285	P80234US	Inactive	United States	15/324,033	US-2017-0208153-A1	
3286	P80234Z	Inactive	United States	62/111,502		
3287	P80235Z	Inactive	United States	62/111,385		
3288	P80370C	Inactive	United States	15/668,215		
3289	P80370Z	Inactive	United States	62/111,809		
3290	P80488	Inactive	United States	14/747,224	US-2016-0233940-A1	
3291	P80488Z	Inactive	United States	62/113,040		
3292	P80597	Inactive	United States	14/751,432	US-2016-0234758-A1	9,854,507
3293	P80597Z	Inactive	United States	62/113,986		
3294	P80740-C1-C1	Inactive	United States	16/572,231		
3295	P80751C-C1	Inactive	United States	16/549,890		
3296	P80756Z	Inactive	United States	62/115,276		
3297	P80757Z	Inactive	United States	62/115,277		
3298	P80758Z	Inactive	United States	62/115,286		
3299	P80761	Inactive	United States	14/668,388	US-2016-0286548-A1	9,923,679
3300	P80764	Inactive	United States	14/669,859	US-2016-0286537-A1	
3301	P80767PCT-US	Inactive	United States	15/555,021	US-2018-0054758-A1	
3302	P80770	Inactive	United States	14/749,996	US-2016-0234301-A1	
3303	P80770Z	Inactive	United States	62/114,966		
3304	P81042Z	Inactive	United States	62/119,200		
3305	P81048	Inactive	United States	14/736,522	US-2016-0366606-A1	9,872,191
3306	P81053	Inactive	United States	14/672,117	US-2016-0285522-A1	9,998,184
3307	P81057	Inactive	United States	14/750,374	US-2016-0380685-A1	9,882,621
3308	P81057-C1	Inactive	United States	15/879,948	US-2018-0248602-A1	
3309	P81058	Inactive	United States	14/750,390	US-2016-0381685-A1	9,887,868
3310	P81063	Inactive	United States	14/734,057	US-2016-0248569-A1	
3311	P81063Z	Inactive	United States	62/118,836		
3312	P81064	Inactive	United States	14/744,702	US-2016-0249303-A1	
3313	P81064Z	Inactive	United States	62/118,876		
3314	P81466Z	Inactive	United States	62/113,925		
3315	P81630	Inactive	United States	14/751,613	US-2016-0379661-A1	
3316	P81676	Inactive	United States	14/751,117	US-2016-0380703-A1	9,692,525
3317	P81679	Inactive	United States	14/748,314	US-2016-0378192-A1	
3318	P81769Z	Inactive	United States	62/126,290		
3319	P81770Z	Inactive	United States	62/126,302		
3320	P81905	Inactive	United States	14/866,298	US-2016-0262185-A1	
3321	P81905Z	Inactive	United States	62/127,675		
3322	P82021PCT-US	Inactive	United States	15/549,071	US-2018-0070349-A1	
3323	P82021Z	Inactive	United States	62/127,997		
3324	P82026-C2	Inactive	United States	16/151,948		
3325	P82026Z	Inactive	United States	62/127,976		
3326	P82105Z	Inactive	United States	62/127,861		
3327	P82193Z	Inactive	United States	62/129,501		
3328	P82200Z	Inactive	United States	62/127,994		
3329	P82341Z	Inactive	United States	62/133,593		

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3330	P82348Z	Inactive	United States	62/132,074		
3331	P82349Z	Inactive	United States	62/131,909		
3332	P82416-C1	Inactive	United States	16/296,548		
3333	P82416Z	Inactive	United States	62/132,339		
3334	P82423	Inactive	United States	14/976,890	US-2016-0270020-A1	
3335	P82423Z	Inactive	United States	62/132,893		
3336	P82427Z	Inactive	United States	62/132,887		
3337	P82615Z	Inactive	United States	62/137,611		
3338	P82622	Inactive	United States	14/749,894	US-2016-0286395-A1	
3339	P82622Z	Inactive	United States	62/137,370		
3340	P82695Z	Inactive	United States	62/236,785		
3341	P82840-C1	Inactive	United States	15/727,848		
3342	P82840Z	Inactive	United States	62/139,869		
3343	P82921Z	Inactive	United States	62/133,193		
3344	P82924Z	Inactive	United States	62/134,941		
3345	P83030-C2	Inactive	United States	16/506,944		
3346	P83077-C1	Inactive	United States	15/838,756	US-2018-0199372-A1	
3347	P83224	Inactive	United States	14/860,280	US-2017-0083987-A1	
3348	P83342Z	Inactive	United States	62/144,673		
3349	P83343Z	Inactive	United States	62/144,953		
3350	P83411	Inactive	United States	14/750,807	US-2016-0378471-A1	
3351	P83415	Inactive	United States	14/751,934	US-2016-0378698-A1	
3352	P83456Z	Inactive	United States	62/139,361		
3353	P83457Z	Inactive	United States	62/140,926		
3354	P83458Z	Inactive	United States	62/141,060		
3355	P83463Z	Inactive	United States	62/137,012		
3356	P83465Z	Inactive	United States	62/141,011		
3357	P83556C-C1	Inactive	United States	16/448,673		
3358	P83556Z	Inactive	United States	62/146,671		
3359	P83685Z	Inactive	United States	62/149,726		
3360	P83686-C1	Inactive	United States	16/113,220		
3361	P83686Z	Inactive	United States	62/149,733		
3362	P83687Z	Inactive	United States	62/149,735		
3363	P83752Z	Inactive	United States	62/150,395		
3364	P83756-C1-C1	Inactive	United States	16/259,802		
3365	P83756Z	Inactive	United States	62/152,110		
3366	P83757-C1-C1	Inactive	United States	16/555,582		
3367	P83757Z	Inactive	United States	62/152,093		
3368	P83774Z	Inactive	United States	62/145,153		
3369	P83775Z	Inactive	United States	62/144,491		
3370	P83776	Inactive	United States	14/974,883	US-2016-0301513-A1	
3371	P83776-C1	Inactive	United States	15/887,269	US-2018-0183560-A1	
3372	P83776Z	Inactive	United States	62/144,782		
3373	P83784Z	Inactive	United States	62/144,774		
3374	P83808Z	Inactive	United States	62/145,381		

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3375	P83828Z	Inactive	United States	62/147,300		
3376	P83829PCT-US	Inactive	United States	15/559,326	US-2018-0115905-A1	
3377	P83829Z	Inactive	United States	62/148,674		
3378	P83830Z	Inactive	United States	62/148,357		
3379	P83836Z	Inactive	United States	62/146,037		
3380	P83899Z	Inactive	United States	62/151,281		
3381	P83909C	Inactive	United States	15/256,718	US-2017-0063312-A1	9,935,590
3382	P83909C2	Inactive	United States	15/255,811		
3383	P83930	Inactive	United States	14/754,683	US-2016-0381498-A1	9,872,136
3384	P83930-C1	Inactive	United States	15/851,077		
3385	P83948Z	Inactive	United States	62/153,615		
3386	P83952	Inactive	United States	14/845,958	US-2016-0323060-A1	
3387	P83952Z	Inactive	United States	62/153,630		
3388	P84053-C1	Inactive	United States	15/961,131		
3389	P84053Z	Inactive	United States	62/154,882		
3390	P84059Z	Inactive	United States	62/155,499		
3391	P84060Z	Inactive	United States	62/155,305		
3392	P84067-C1	Inactive	United States	16/361,928		
3393	P84078	Inactive	United States	14/864,993	US-2016-0323890-A1	
3394	P84078Z	Inactive	United States	62/154,889		
3395	P84079Z	Inactive	United States	62/154,893		
3396	P84080Z	Inactive	United States	62/154,902		
3397	P84084Z	Inactive	United States	62/154,910		
3398	P84256Z	Inactive	United States	62/157,304		
3399	P84257Z	Inactive	United States	62/157,376		
3400	P84258	Inactive	United States	14/757,961	US-2016-0329989-A1	
3401	P84258Z	Inactive	United States	62/157,070		
3402	P84259Z	Inactive	United States	62/156,980		
3403	P84260Z	Inactive	United States	62/157,318		
3404	P84384	Inactive	United States	14/749,847	US-2016-0374578-A1	
3405	P84468Z	Inactive	United States	62/158,100		
3406	P84469Z	Inactive	United States	62/157,539		
3407	P84470Z	Inactive	United States	62/158,130		
3408	P84474Z	Inactive	United States	62/159,294		
3409	P84535Z	Inactive	United States	62/161,301		
3410	P84622-C1	Inactive	United States	15/688,437		
3411	P84623	Inactive	United States	14/751,064	US-2016-0380722-A1	
3412	P84640	Inactive	United States	14/757,824	US-2016-0255645-A1	
3413	P84640C	Inactive	United States	15/041,703	US-2016-0255620-A1	
3414	P84656	Inactive	United States	14/751,899	US-2016-0378701-A1	9,996,487
3415	P84661	Inactive	United States	14/751,977	US-2016-0381191-A1	
3416	P84716-C1	Inactive	United States	15/862,196	US-2018-0226185-A1	
3417	P84806	Inactive	United States	14/752,704	US-2016-0381728-A1	
3418	P84933	Inactive	United States	14/750,350		9,398,531
3419	P85016Z	Inactive	United States	62/164,489		

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3420	P85100	Inactive	United States	14/751,164	US-2016-0380715-A1	9,614,632
3421	P85121Z	Inactive	United States	62/159,076		
3422	P85122Z	Inactive	United States	62/159,061		
3423	P85123Z	Inactive	United States	62/159,059		
3424	P85124Z	Inactive	United States	62/163,696		
3425	P85125Z	Inactive	United States	62/158,199		
3426	P85127PCT-US	Inactive	United States	15/566,903	US-2018-0132124-A1	
3427	P85127Z	Inactive	United States	62/161,775		
3428	P85148Z	Inactive	United States	62/161,770		
3429	P85151Z	Inactive	United States	62/163,218		
3430	P85154-C1	Inactive	United States	15/977,216		
3431	P85154Z	Inactive	United States	62/165,075		
3432	P85199Z	Inactive	United States	62/167,022		
3433	P85238Z	Inactive	United States	62/167,088		
3434	P85243	Inactive	United States	14/864,238	US-2016-0353435-A1	
3435	P85243Z	Inactive	United States	62/167,386		
3436	P85244-C1-C1	Inactive	United States	16/521,350		
3437	P85244Z	Inactive	United States	62/167,379		
3438	P85451	Inactive	United States	15/200,924		9,813,190
3439	P85464-C1-C1	Inactive	United States	16/853,558		
3440	P85464Z	Inactive	United States	62/171,841		
3441	P85469	Inactive	United States	14/998,277	US-2017-0013412-A1	
3442	P85469Z	Inactive	United States	62/191,438		
3443	P85492PCT-US	Inactive	United States	15/756,525	US-2018-0317262-A1	
3444	P85634Z	Inactive	United States	62/165,090		
3445	P85636Z	Inactive	United States	62/165,115		
3446	P85638Z	Inactive	United States	62/166,414		
3447	P85642Z	Inactive	United States	62/169,946		
3448	P85643Z	Inactive	United States	62/169,956		
3449	P85644Z	Inactive	United States	62/169,276		
3450	P85645Z	Inactive	United States	62/166,423		
3451	P85649PCT-US	Inactive	United States	15/571,614	US-2018-0146404-A1	
3452	P85649Z	Inactive	United States	62/168,469		
3453	P85650Z	Inactive	United States	62/169,147		
3454	P85674	Inactive	United States	14/839,412	US-2017-0057170-A1	
3455	P85676C	Inactive	United States	15/397,604	US-2017-0213435-A1	9,865,146
3456	P85676C-C1	Inactive	United States	15/866,197		
3457	P85719Z	Inactive	United States	62/172,903		
3458	P85773	Inactive	United States	14/868,437	US-2016-0366666-A1	
3459	P85773Z	Inactive	United States	62/173,792		
3460	P85774	Inactive	United States	14/998,280	US-2016-0366001-A1	
3461	P85774Z	Inactive	United States	62/173,776		
3462	P85813	Inactive	United States	14/871,500	US-2016-0366688-A1	
3463	P85813Z	Inactive	United States	62/173,803		
3464	P85816Z	Inactive	United States	62/174,007		

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3465	P85879Z	Inactive	United States	62/192,977		
3466	P85966	Inactive	United States	14/998,246	US-2016-0366660-A1	9,907,042
3467	P85966Z	Inactive	United States	62/175,523		
3468	P86154PCT-US	Inactive	United States	15/748,115	US-2018-0226377-A1	
3469	P86213	Inactive	United States	14/757,828	US-2016-0374017-A1	
3470	P86213Z	Inactive	United States	62/181,527		
3471	P86214Z	Inactive	United States	62/182,118		
3472	P86217Z	Inactive	United States	62/181,839		
3473	P86230Z	Inactive	United States	62/200,019		
3474	P86236	Inactive	United States	14/837,180	US-2017-0064492-A1	
3475	P86351Z	Inactive	United States	62/182,682		
3476	P86352Z	Inactive	United States	62/182,687		
3477	P86374Z	Inactive	United States	62/183,002		
3478	P86635Z	Inactive	United States	62/185,387		
3479	P86787Z	Inactive	United States	62/188,236		
3480	P86789-C1-C1	Inactive	United States	16/574,636		
3481	P86789Z	Inactive	United States	62/187,569		
3482	P86841-C1-C1	Inactive	United States	16/237,357		
3483	P86841Z	Inactive	United States	62/187,960		
3484	P86892-C1	Inactive	United States	15/910,748	US-2018-0324697-A1	
3485	P86892Z	Inactive	United States	62/189,596		
3486	P86918Z	Inactive	United States	62/180,971		
3487	P86919Z	Inactive	United States	62/174,110		
3488	P86923Z	Inactive	United States	62/189,421		
3489	P86924Z	Inactive	United States	62/189,449		
3490	P86929Z	Inactive	United States	62/181,975		
3491	P86930Z	Inactive	United States	62/181,977		
3492	P86938Z	Inactive	United States	62/174,246		
3493	P86939-C1-C1	Inactive	United States	16/255,203		
3494	P86944Z	Inactive	United States	62/190,848		
3495	P86967Z	Inactive	United States	62/191,579		
3496	P87110	Inactive	United States	14/757,861	US-2017-0019863-A1	
3497	P87110Z	Inactive	United States	62/192,328		
3498	P87111Z	Inactive	United States	62/192,343		
3499	P87112Z	Inactive	United States	62/192,334		
3500	P87113Z	Inactive	United States	62/192,316		
3501	P87180	Inactive	United States	14/975,225	US-2017-0026981-A1	
3502	P87180-C1-C1	Inactive	United States	16/905,603		
3503	P87180Z	Inactive	United States	62/196,057		
3504	P87182	Inactive	United States	14/964,768	US-2017-0019880-A1	9,866,354
3505	P87182-C1	Inactive	United States	15/833,004		
3506	P87182Z	Inactive	United States	62/192,675		
3507	P87208	Inactive	United States	14/998,210	US-2017-0026282-A1	
3508	P87208Z	Inactive	United States	62/195,197		
3509	P87209Z	Inactive	United States	62/195,132		

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3510	P87210	Inactive	United States	14/978,205	US-2017-0026431-A1	
3511	P87210Z	Inactive	United States	62/194,499		
3512	P87212Z	Inactive	United States	62/194,918		
3513	P87284Z	Inactive	United States	62/195,965		
3514	P87285Z	Inactive	United States	62/195,393		
3515	P87343Z	Inactive	United States	62/197,247		
3516	P87364	Inactive	United States	15/278,956	US-2018-0091949-A1	
3517	P87365-C1	Inactive	United States	15/991,232		
3518	P87365Z	Inactive	United States	62/198,795		
3519	P87369	Inactive	United States	14/872,039	US-2017-0094551-A1	9,843,959
3520	P87415-C1	Inactive	United States	15/894,575		
3521	P87415Z	Inactive	United States	62/200,023		
3522	P87416Z	Inactive	United States	62/200,021		
3523	P87417Z	Inactive	United States	62/200,020		
3524	P87426	Inactive	United States	14/869,023	US-2017-0093609-A1	9,871,688
3525	P87427C	Inactive	United States	15/479,861		
3526	P87429	Inactive	United States	14/978,652	US-2017-0180013-A1	9,941,936
3527	P87434	Inactive	United States	14/884,159	US-2017-0111218-A1	9,787,538
3528	P87434-C1	Inactive	United States	15/705,551		
3529	P87438Z	Inactive	United States	62/198,982		
3530	P87446-C1	Inactive	United States	16/147,786		
3531	P87446Z	Inactive	United States	62/199,257		
3532	P87447	Inactive	United States	14/757,829	US-2017-0041171-A1	
3533	P87447Z	Inactive	United States	62/200,368		
3534	P87606Z	Inactive	United States	62/201,896		
3535	P87626Z	Inactive	United States	62/202,951		
3536	P87628Z	Inactive	United States	62/203,272		
3537	P87636Z	Inactive	United States	62/201,029		
3538	P87643Z	Inactive	United States	62/193,715		
3539	P87647	Inactive	United States	14/861,183	US-2017-0086027-A1	9,693,196
3540	P87655Z	Inactive	United States	62/191,782		
3541	P87657Z	Inactive	United States	62/193,477		
3542	P87658Z	Inactive	United States	62/201,397		
3543	P87672	Inactive	United States	14/864,652	US-2017-0088096-A1	
3544	P87706PCT-US	Inactive	United States	15/748,342	US-2018-0227874-A1	
3545	P87706Z	Inactive	United States	62/198,878		
3546	P87707Z	Inactive	United States	62/196,181		
3547	P87711Z	Inactive	United States	62/200,923		
3548	P87712Z	Inactive	United States	62/196,446		
3549	P87776	Inactive	United States	14/977,397	US-2017-0048844-A1	
3550	P87776Z	Inactive	United States	62/204,086		
3551	P87827-C1-C1	Inactive	United States	16/543,194		
3552	P87827Z	Inactive	United States	62/204,720		
3553	P87940Z	Inactive	United States	62/203,598		
3554	P87952Z	Inactive	United States	62/204,313		

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3555	P87993Z	Inactive	United States	62/204,891		
3556	P87995Z	Inactive	United States	62/205,268		
3557	P87996Z	Inactive	United States	62/204,682		
3558	P87997Z	Inactive	United States	62/204,803		
3559	P88012Z	Inactive	United States	62/204,939		
3560	P88013Z	Inactive	United States	62/204,941		
3561	P88014Z	Inactive	United States	62/204,906		
3562	P88018Z	Inactive	United States	62/205,536		
3563	P88124-C1	Inactive	United States	15/868,052		
3564	P88124Z	Inactive	United States	62/212,040		
3565	P88125Z	Inactive	United States	62/212,018		
3566	P88126Z	Inactive	United States	62/209,944		
3567	P88127	Inactive	United States	14/969,415	US-2017-0064644-A1	
3568	P88127Z	Inactive	United States	62/208,946		
3569	P88138Z	Inactive	United States	62/214,405		
3570	P88145Z	Inactive	United States	62/208,181		
3571	P88149PCT-US	Inactive	United States	15/745,667	US-2018-0212716-A1	
3572	P88149Z	Inactive	United States	62/208,191		
3573	P88168	Inactive	United States	15/083,581	US-2017-0290067-A1	
3574	P88260Z	Inactive	United States	62/210,963		
3575	P88261Z	Inactive	United States	62/210,987		
3576	P88270	Inactive	United States	15/079,066	US-2017-0063999-A1	9,954,956
3577	P88270Z	Inactive	United States	62/209,969		
3578	P88747	Inactive	United States	14/757,827	US-2017-0070911-A1	
3579	P88747Z	Inactive	United States	62/214,712		
3580	P88957Z	Inactive	United States	62/211,265		
3581	P88958Z	Inactive	United States	62/211,262		
3582	P88961PCT-US	Inactive	United States	15/747,049	US-2018-0367204-A1	
3583	P88970Z	Inactive	United States	62/210,295		
3584	P89000Z	Inactive	United States	62/214,757		
3585	P89191	Inactive	United States	14/977,307	US-2017-0178999-A1	
3586	P89289-C1	Inactive	United States	16/429,805		
3587	P89289Z	Inactive	United States	62/216,613		
3588	P89293-C1-C1	Inactive	United States	16/279,706		
3589	P89293Z	Inactive	United States	62/215,523		
3590	P89417Z	Inactive	United States	62/208,192		
3591	P89467Z	Inactive	United States	62/217,223		
3592	P89491Z	Inactive	United States	62/212,460		
3593	P89496Z	Inactive	United States	62/214,063		
3594	P89497Z	Inactive	United States	62/214,065		
3595	P89504Z	Inactive	United States	62/208,460		
3596	P89540PCT-US	Inactive	United States	15/767,474	US-2018-0293877-A1	
3597	P89548Z	Inactive	United States	62/211,612		
3598	P89712Z	Inactive	United States	62/219,702		
3599	P89770	Inactive	United States	15/080,926	US-2017-0276491-A1	

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3600	P89775	Inactive	United States	14/757,858	US-2017-0188362-A1	
3601	P89776	Inactive	United States	14/968,444	US-2017-0171773-A1	
3602	P89778	Inactive	United States	14/969,531	US-2017-0168971-A1	
3603	P89780-C1	Inactive	United States	15/892,818		
3604	P89823Z	Inactive	United States	62/221,725		
3605	P89824Z	Inactive	United States	62/221,712		
3606	P89840-D1	Inactive	United States	16/225,673	US-2019-0121645-A1	
3607	P89901Z	Inactive	United States	62/218,708		
3608	P89902Z	Inactive	United States	62/219,026		
3609	P90105Z	Inactive	United States	62/232,375		
3610	P90107Z	Inactive	United States	62/232,380		
3611	P90112Z	Inactive	United States	62/232,389		
3612	P90131Z	Inactive	United States	62/232,382		
3613	P90133Z	Inactive	United States	62/233,154		
3614	P90134Z	Inactive	United States	62/232,869		
3615	P90175Z	Inactive	United States	62/245,931		
3616	P90451	Inactive	United States	14/998,212	US-2017-0099671-A1	9,826,513
3617	P90451Z	Inactive	United States	62/237,283		
3618	P90689Z	Inactive	United States	62/238,829		
3619	P90739-C1	Inactive	United States	16/121,892		
3620	P90739Z	Inactive	United States	62/238,521		
3621	P90766Z	Inactive	United States	62/238,159		
3622	P90813Z	Inactive	United States	62/235,345		
3623	P90823Z	Inactive	United States	62/236,781		
3624	P91014-C1	Inactive	United States	16/101,013		
3625	P91014Z	Inactive	United States	62/241,689		
3626	P91205Z	Inactive	United States	62/243,241		
3627	P91210Z	Inactive	United States	62/243,500		
3628	P91247Z	Inactive	United States	62/237,327		
3629	P91261-C1-C1	Inactive	United States	16/421,836		
3630	P91261Z	Inactive	United States	62/241,363		
3631	P91383Z	Inactive	United States	62/238,073		
3632	P91384Z	Inactive	United States	62/237,453		
3633	P91524Z	Inactive	United States	62/242,847		
3634	P91574Z	Inactive	United States	62/244,296		
3635	P91575Z	Inactive	United States	62/244,340		
3636	P91576Z	Inactive	United States	62/244,475		
3637	P91578-C1	Inactive	United States	16/044,067		
3638	P91578Z	Inactive	United States	62/244,307		
3639	P91603Z	Inactive	United States	62/246,178		
3640	P91604Z	Inactive	United States	62/246,179		
3641	P91628	Inactive	United States	15/353,287	US-2017-0180010-A1	
3642	P91705PCT-US	Inactive	United States	15/763,422	US-2018-0279371-A1	
3643	P91705Z	Inactive	United States	62/244,603		
3644	P91843	Inactive	United States	14/998,224	US-2017-0185346-A1	9,898,222

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3645	P91843-C1	Inactive	United States	15/900,750		
3646	P92015	Inactive	United States	14/979,108	US-2017-0178667-A1	9,899,034
3647	P92083	Inactive	United States	15/084,093	US-2017-0118676-A1	
3648	P92083Z	Inactive	United States	62/246,831		
3649	P92119Z	Inactive	United States	62/250,333		
3650	P92145Z	Inactive	United States	62/243,560		
3651	P92290Z	Inactive	United States	62/247,637		
3652	P92291Z	Inactive	United States	62/249,424		
3653	P92467Z	Inactive	United States	62/249,427		
3654	P92504	Inactive	United States	15/082,129	US-2017-0127447-A1	
3655	P92504Z	Inactive	United States	62/249,562		
3656	P92505	Inactive	United States	15/079,878	US-2017-0127446-A1	
3657	P92505Z	Inactive	United States	62/249,566		
3658	P92537Z	Inactive	United States	62/250,243		
3659	P92538Z	Inactive	United States	62/250,014		
3660	P92758Z	Inactive	United States	62/250,902		
3661	P92759Z	Inactive	United States	62/251,599		
3662	P92765PCT-US	Inactive	United States	15/773,644	US-2018-0324855-A1	
3663	P92765Z	Inactive	United States	62/250,828		
3664	P92855Z	Inactive	United States	62/254,363		
3665	P92869Z	Inactive	United States	62/248,889		
3666	P92871Z	Inactive	United States	62/248,143		
3667	P92872Z	Inactive	United States	62/248,899		
3668	P92873Z	Inactive	United States	62/248,997		
3669	P93013	Inactive	United States	15/195,167		9,800,440
3670	P93153Z	Inactive	United States	62/251,460		
3671	P93168Z	Inactive	United States	62/246,487		
3672	P93200	Inactive	United States	14/998,293	US-2017-0188301-A1	
3673	P93208	Inactive	United States	14/757,618	US-2017-0188300-A1	
3674	P93213	Inactive	United States	14/979,106	US-2017-0180933-A1	9,888,350
3675	P93400	Inactive	United States	14/757,725	US-2017-0187435-A1	
3676	P93400-C1	Inactive	United States	15/906,290		
3677	P93412Z	Inactive	United States	62/247,481		
3678	P93413Z	Inactive	United States	62/250,701		
3679	P93414Z	Inactive	United States	62/250,123		
3680	P93421Z	Inactive	United States	62/251,592		
3681	P93422Z	Inactive	United States	62/250,426		
3682	P93423Z	Inactive	United States	62/249,627		
3683	P93424Z	Inactive	United States	62/250,864		
3684	P93434Z	Inactive	United States	62/252,356		
3685	P93443Z	Inactive	United States	62/251,622		
3686	P93445Z	Inactive	United States	62/252,364		
3687	P93526	Inactive	United States	15/085,299	US-2017-0288933-A1	
3688	P93645	Inactive	United States	14/979,214	US-2017-0180357-A1	
3689	P93682	Inactive	United States	14/998,233	US-2017-0187443-A1	9,698,890

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3690	P93704	Inactive	United States	14/976,385	US-2017-0180917-A1	
3691	P93708-C1	Inactive	United States	15/655,455		
3692	P93859	Inactive	United States	14/979,293	US-2017-0181167-A1	
3693	P93876Z	Inactive	United States	62/254,115		
3694	P93884	Inactive	United States	14/757,628	US-2017-0188242-A1	
3695	P93909Z	Inactive	United States	62/255,362		
3696	P93945Z	Inactive	United States	62/265,835		
3697	P94035Z	Inactive	United States	62/258,912		
3698	P94036Z	Inactive	United States	62/256,335		
3699	P94084Z	Inactive	United States	62/252,991		
3700	P94087Z	Inactive	United States	62/252,968		
3701	P94091Z	Inactive	United States	62/253,037		
3702	P94092Z	Inactive	United States	62/253,613		
3703	P94097	Inactive	United States	15/086,460	US-2017-0142662-A1	
3704	P94097Z	Inactive	United States	62/256,242		
3705	P94107Z	Inactive	United States	62/255,865		
3706	P94122Z	Inactive	United States	62/256,014		
3707	P94139Z	Inactive	United States	62/256,595		
3708	P94265Z	Inactive	United States	62/258,910		
3709	P94268Z	Inactive	United States	62/257,632		
3710	P94307	Inactive	United States	15/084,086	US-2017-0149523-A1	
3711	P94307Z	Inactive	United States	62/258,109		
3712	P94365Z	Inactive	United States	62/258,899		
3713	P94414Z	Inactive	United States	62/259,515		
3714	P94475	Inactive	United States	15/083,578	US-2017-0288899-A1	10,038,569
3715	P94506Z	Inactive	United States	62/261,593		
3716	P94586Z	Inactive	United States	62/261,992		
3717	P94596Z	Inactive	United States	62/262,473		
3718	P94699Z	Inactive	United States	62/253,048		
3719	P94714-C1	Inactive	United States	16/042,761		
3720	P94767Z	Inactive	United States	62/264,747		
3721	P94770Z	Inactive	United States	62/279,513		
3722	P94771Z	Inactive	United States	62/264,234		
3723	P94778Z	Inactive	United States	62/264,207		
3724	P94779Z	Inactive	United States	62/264,212		
3725	P94780Z	Inactive	United States	62/264,215		
3726	P94781Z	Inactive	United States	62/264,219		
3727	P94782Z	Inactive	United States	62/264,222		
3728	P94805	Inactive	United States	15/066,434	US-2017-0263254-A1	
3729	P94806	Inactive	United States	14/988,265	US-2017-0192085-A1	9,869,751
3730	P94810Z	Inactive	United States	62/265,017		
3731	P94811Z	Inactive	United States	62/265,354		
3732	P94856Z	Inactive	United States	62/265,606		
3733	P94926Z	Inactive	United States	62/266,167		
3734	P94927Z	Inactive	United States	62/266,169		

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3735	P94928	Inactive	United States	15/088,953	US-2017-0171766-A1	
3736	P94928Z	Inactive	United States	62/266,633		
3737	P94930-C1	Inactive	United States	16/155,043		
3738	P94930Z	Inactive	United States	62/266,999		
3739	P94931Z	Inactive	United States	62/267,037		
3740	P94948Z	Inactive	United States	62/268,939		
3741	P94971Z	Inactive	United States	62/271,008		
3742	P94977Z	Inactive	United States	62/387,254		
3743	P94978Z	Inactive	United States	62/387,128		
3744	P94979Z	Inactive	United States	62/387,271		
3745	P95089Z	Inactive	United States	62/292,100		
3746	P95105	Inactive	United States	15/197,293	US-2017-0195954-A1	
3747	P95105Z	Inactive	United States	62/275,171		
3748	P95106	Inactive	United States	15/200,952	US-2017-0195026-A1	
3749	P95106Z	Inactive	United States	62/275,176		
3750	P95109-C1	Inactive	United States	16/915,587		
3751	P95128Z	Inactive	United States	62/274,967		
3752	P95162Z	Inactive	United States	62/279,566		
3753	P95179Z	Inactive	United States	62/277,193		
3754	P95180Z	Inactive	United States	62/277,200		
3755	P95181Z	Inactive	United States	62/277,229		
3756	P95184	Inactive	United States	15/083,061	US-2017-0201298-A1	
3757	P95184Z	Inactive	United States	62/277,015		
3758	P95185	Inactive	United States	15/086,625	US-2017-0201905-A1	
3759	P95185Z	Inactive	United States	62/276,048		
3760	P95186Z	Inactive	United States	62/276,055		
3761	P95187Z	Inactive	United States	62/275,460		
3762	P95189Z	Inactive	United States	62/275,459		
3763	P95190Z	Inactive	United States	62/275,454		
3764	P95191Z	Inactive	United States	62/275,457		
3765	P95193Z	Inactive	United States	62/277,397		
3766	P95229Z	Inactive	United States	62/268,466		
3767	P95251Z	Inactive	United States	62/279,665		
3768	P95253Z	Inactive	United States	62/277,303		
3769	P95266Z	Inactive	United States	62/276,486		
3770	P95268Z	Inactive	United States	62/276,534		
3771	P95269Z	Inactive	United States	62/276,536		
3772	P95300Z	Inactive	United States	62/278,010		
3773	P95301Z	Inactive	United States	62/277,042		
3774	P95305	Inactive	United States	15/084,977	US-2017-0288747-A1	
3775	P95317-C1	Inactive	United States	15/926,591		
3776	P95366Z	Inactive	United States	62/278,323		
3777	P95367Z	Inactive	United States	62/288,997		
3778	P95368Z	Inactive	United States	62/277,282		
3779	P95369Z	Inactive	United States	62/278,328		

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3780	P95370Z	Inactive	United States	62/277,278		
3781	P95372Z	Inactive	United States	62/277,830		
3782	P95381PCT-US	Inactive	United States	15/578,198	US-2018-0183640-A1	
3783	P95446Z	Inactive	United States	62/281,336		
3784	P95447Z	Inactive	United States	62/281,345		
3785	P95474Z	Inactive	United States	62/280,578		
3786	P95475Z	Inactive	United States	62/280,575		
3787	P95504	Inactive	United States	15/201,374	US-2018-0006753-A1	
3788	P95505-C1	Inactive	United States	16/554,511		
3789	P95506	Inactive	United States	15/087,619	US-2017-0289159-A1	
3790	P95511	Inactive	United States	15/077,257	US-2017-0280424-A1	
3791	P95512	Inactive	United States	15/079,061	US-2017-0279766-A1	
3792	P95596Z	Inactive	United States	62/287,306		
3793	P95602	Inactive	United States	15/164,056	US-2017-0346508-A1	9,847,800
3794	P95690Z	Inactive	United States	62/287,269		
3795	P95691Z	Inactive	United States	62/286,851		
3796	P95716Z	Inactive	United States	62/290,599		
3797	P95717Z	Inactive	United States	62/287,248		
3798	P95718Z	Inactive	United States	62/289,007		
3799	P95719Z	Inactive	United States	62/292,106		
3800	P95761	Inactive	United States	15/192,433	US-2017-0223710-A1	
3801	P95761Z	Inactive	United States	62/289,118		
3802	P95918Z	Inactive	United States	62/290,700		
3803	P95919Z	Inactive	United States	62/290,589		
3804	P95946	Inactive	United States	15/201,075	US-2018-0004511-A1	
3805	P96000Z	Inactive	United States	62/291,697		
3806	P96048Z	Inactive	United States	62/292,721		
3807	P96049Z	Inactive	United States	62/291,383		
3808	P96050Z	Inactive	United States	62/291,386		
3809	P96092Z	Inactive	United States	62/292,042		
3810	P96093Z	Inactive	United States	62/292,038		
3811	P96094Z	Inactive	United States	62/292,062		
3812	P96123Z	Inactive	United States	62/294,353		
3813	P96208Z	Inactive	United States	62/427,350		
3814	P96214Z	Inactive	United States	62/293,735		
3815	P96342Z	Inactive	United States	62/294,865		
3816	P96367	Inactive	United States	15/391,561	US-2017-0244530-A1	
3817	P96367Z	Inactive	United States	62/296,687		
3818	P96368-C1	Inactive	United States	16/513,929		
3819	P96368Z	Inactive	United States	62/296,696		
3820	P96370Z	Inactive	United States	62/296,811		
3821	P96371Z	Inactive	United States	62/296,827		
3822	P96372Z	Inactive	United States	62/296,999		
3823	P96374Z	Inactive	United States	62/295,928		
3824	P96377Z	Inactive	United States	62/295,924		

No.	Reference Number	Status	Country	Filing Number	Publication Number	Grant Number
3825	P96379Z	Inactive	United States	62/295,930		
3826	P96424Z	Inactive	United States	62/297,037		
3827	P96425Z	Inactive	United States	62/297,038		
3828	P96462Z	Inactive	United States	62/298,059		
3829	P96463Z	Inactive	United States	62/298,048		
3830	P96464	Inactive	United States	15/192,566	US-2017-0245119-A1	
3831	P96464Z	Inactive	United States	62/298,062		
3832	P96503Z	Inactive	United States	62/297,775		
3833	P96506Z	Inactive	United States	62/299,094		
3834	P96536Z	Inactive	United States	62/298,257		
3835	P96537Z	Inactive	United States	62/298,866		
3836	P96568-C1	Inactive	United States	16/503,540		
3837	P96568Z	Inactive	United States	62/299,692		
3838	P96569-C1	Inactive	United States	16/161,821		
3839	P96569Z	Inactive	United States	62/301,683		
3840	P96585Z	Inactive	United States	62/299,279		
3841	P96590Z	Inactive	United States	62/300,337		
3842	P96701Z	Inactive	United States	62/301,915		
3843	P96776-C1	Inactive	United States	16/664,097		
3844	P96786Z	Inactive	United States	62/301,754		
3845	P96840Z	Inactive	United States	62/299,976		
3846	P96843Z	Inactive	United States	62/300,537		
3847	P96846Z	Inactive	United States	62/300,563		
3848	P96851	Inactive	United States	15/202,910	US-2018-0011813-A1	
3849	P96858-C1	Inactive	United States	16/791,872		
3850	P96931Z	Inactive	United States	62/303,415		
3851	P96932	Inactive	United States	15/192,337	US-2017-0265135-A1	
3852	P96932Z	Inactive	United States	62/305,764		
3853	P96933	Inactive	United States	15/391,364	US-2017-0257344-A1	
3854	P96933Z	Inactive	United States	62/303,419		
3855	P96935	Inactive	United States	15/396,419	US-2017-0257867-A1	
3856	P96935Z	Inactive	United States	62/303,911		
3857	P96980Z	Inactive	United States	62/316,335		
3858	P96982Z	Inactive	United States	62/302,398		
3859	P96985-C1-C1	Inactive	United States	16/521,299		
3860	P96985Z	Inactive	United States	62/305,575		
3861	P96987Z	Inactive	United States	62/303,232		
3862	P96992	Inactive	United States	15/198,444		
3863	P96994Z	Inactive	United States	62/316,374		
3864	P96996Z	Inactive	United States	62/307,038		
3865	P96997Z	Inactive	United States	62/307,197		
3866	P97048Z	Inactive	United States	62/306,412		
3867	P97092	Inactive	United States	15/274,897	US-2017-0265105-A1	
3868	P97092Z	Inactive	United States	62/307,661		
3869	P97111Z	Inactive	United States	62/319,391		

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3870	P97160-C1	Inactive	United States	16/029,615		
3871	P97160Z	Inactive	United States	62/307,734		
3872	P97162Z	Inactive	United States	62/307,202		
3873	P97186-C1	Inactive	United States	16/247,901		
3874	P97207Z	Inactive	United States	62/308,468		
3875	P97208Z	Inactive	United States	62/308,512		
3876	P97209Z	Inactive	United States	62/308,602		
3877	P97217-C1	Inactive	United States	16/016,861		
3878	P97219	Inactive	United States	15/194,646	US-2017-0372448-A1	
3879	P97294Z	Inactive	United States	62/316,294		
3880	P97298Z	Inactive	United States	62/309,819		
3881	P97337Z	Inactive	United States	62/311,145		
3882	P97338Z	Inactive	United States	62/311,171		
3883	P97359Z	Inactive	United States	62/314,211		
3884	P97440Z	Inactive	United States	62/315,242		
3885	P97441Z	Inactive	United States	62/315,248		
3886	P97442Z	Inactive	United States	62/313,510		
3887	P97443	Inactive	United States	15/200,470	US-2017-0279568-A1	
3888	P97443Z	Inactive	United States	62/313,519		
3889	P97448Z	Inactive	United States	62/312,335		
3890	P97482Z	Inactive	United States	62/313,616		
3891	P97531Z	Inactive	United States	62/314,243		
3892	P97532Z	Inactive	United States	62/317,054		
3893	P97605Z	Inactive	United States	62/316,073		
3894	P97607Z	Inactive	United States	62/316,092		
3895	P97608Z	Inactive	United States	62/317,260		
3896	P97611Z	Inactive	United States	62/315,387		
3897	P97612Z	Inactive	United States	62/316,076		
3898	P97613Z	Inactive	United States	62/317,083		
3899	P97614Z	Inactive	United States	62/316,228		
3900	P97615Z	Inactive	United States	62/316,229		
3901	P97621Z	Inactive	United States	62/316,080		
3902	P97623Z	Inactive	United States	62/316,338		
3903	P97624Z	Inactive	United States	62/315,429		
3904	P97627Z	Inactive	United States	62/316,728		
3905	P97628Z	Inactive	United States	62/316,969		
3906	P97631Z	Inactive	United States	62/316,792		
3907	P97634Z	Inactive	United States	62/316,971		
3908	P97638Z	Inactive	United States	62/317,262		
3909	P97639Z	Inactive	United States	62/316,830		
3910	P97641Z	Inactive	United States	62/316,733		
3911	P97648Z	Inactive	United States	62/316,730		
3912	P97651Z	Inactive	United States	62/317,207		
3913	P97653Z	Inactive	United States	62/317,213		
3914	P97663Z	Inactive	United States	62/317,341		

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3915	P97664Z	Inactive	United States	62/317,345		
3916	P97667Z	Inactive	United States	62/317,215		
3917	P97720	Inactive	United States	15/198,561	US-2018-0001821-A1	
3918	P97787Z	Inactive	United States	62/318,460		
3919	P97789Z	Inactive	United States	62/318,464		
3920	P97790Z	Inactive	United States	62/318,469		
3921	P97791Z	Inactive	United States	62/318,477		
3922	P97794Z	Inactive	United States	62/318,872		
3923	P97810Z	Inactive	United States	62/316,242		
3924	P97818	Inactive	United States	15/198,568	US-2018-0004526-A1	
3925	P97902Z	Inactive	United States	62/319,404		
3926	P97903-C1	Inactive	United States	16/275,367		
3927	P97903Z	Inactive	United States	62/319,409		
3928	P97939	Inactive	United States	15/282,017	US-2017-0295595-A1	
3929	P97939Z	Inactive	United States	62/319,948		
3930	P98013Z	Inactive	United States	62/489,749		
3931	P98018Z	Inactive	United States	62/357,037		
3932	P98039Z	Inactive	United States	62/322,074		
3933	P98040Z	Inactive	United States	62/320,249		
3934	P98042Z	Inactive	United States	62/324,671		
3935	P98047Z	Inactive	United States	62/320,998		
3936	P98111PCT-US	Inactive	United States	15/559,589	US-2018-0054798-A1	
3937	P98127Z	Inactive	United States	62/321,424		
3938	P98129Z	Inactive	United States	62/321,619		
3939	P98133Z	Inactive	United States	62/322,204		
3940	P98188Z	Inactive	United States	62/322,638		
3941	P98359-C1	Inactive	United States	16/226,505		
3942	P98359Z	Inactive	United States	62/324,001		
3943	P98360Z	Inactive	United States	62/323,381		
3944	P98361Z	Inactive	United States	62/323,332		
3945	P98362Z	Inactive	United States	62/323,412		
3946	P98425Z	Inactive	United States	62/325,291		
3947	P98426Z	Inactive	United States	62/327,593		
3948	P98427	Inactive	United States	15/381,413	US-2017-0311325-A1	
3949	P98427Z	Inactive	United States	62/326,307		
3950	P98428Z	Inactive	United States	62/327,612		
3951	P98452-C1	Inactive	United States	15/701,329		
3952	P98455Z	Inactive	United States	62/323,109		
3953	P98459Z	Inactive	United States	62/326,339		
3954	P98521Z	Inactive	United States	62/327,720		
3955	P98522Z	Inactive	United States	62/327,010		
3956	P98543Z	Inactive	United States	62/326,409		
3957	P98576Z	Inactive	United States	62/327,650		
3958	P98577Z	Inactive	United States	62/329,328		
3959	P98578Z	Inactive	United States	62/329,747		

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3960	P98579Z	Inactive	United States	62/329,416		
3961	P98590Z	Inactive	United States	62/327,256		
3962	P98598Z	Inactive	United States	62/329,037		
3963	P98805Z	Inactive	United States	62/331,593		
3964	P98806-C1-C1	Inactive	United States	16/732,763		
3965	P98806Z	Inactive	United States	62/331,644		
3966	P98807Z	Inactive	United States	62/331,068		
3967	P98857Z	Inactive	United States	62/331,740		
3968	P98909	Inactive	United States	15/276,543	US-2017-0324549-A1	
3969	P98909Z	Inactive	United States	62/332,560		
3970	P98935	Inactive	United States	15/268,234	US-2018-0080788-A1	
3971	P98960	Inactive	United States	15/200,910		9,774,363
3972	P99076-C1	Inactive	United States	16/155,547		
3973	P99076Z	Inactive	United States	62/333,951		
3974	P99077-C1-C1	Inactive	United States	16/712,218		
3975	P99077Z	Inactive	United States	62/333,975		
3976	P99094	Inactive	United States	15/263,342	US-2018-0077551-A1	
3977	P99097Z	Inactive	United States	62/332,904		
3978	P99099Z	Inactive	United States	62/332,901		
3979	P99105Z	Inactive	United States	62/336,009		
3980	P99112Z	Inactive	United States	62/334,288		
3981	P99118Z	Inactive	United States	62/334,310		
3982	P99229Z	Inactive	United States	62/335,365		
3983	P99232Z	Inactive	United States	62/335,539		
3984	P99239Z	Inactive	United States	62/334,851		
3985	P99241Z	Inactive	United States	62/336,383		
3986	P99242Z	Inactive	United States	62/335,576		
3987	P99250PCT-US	Inactive	United States	16/092,695	US-2019-0158206-A1	
3988	P99250Z	Inactive	United States	62/336,378		
3989	P99252Z	Inactive	United States	62/336,374		
3990	P99253Z	Inactive	United States	62/336,417		
3991	P99256Z	Inactive	United States	62/336,394		
3992	P99257Z	Inactive	United States	62/336,425		
3993	P99271Z	Inactive	United States	62/335,329		
3994	P99273Z	Inactive	United States	62/336,386		
3995	P99274Z	Inactive	United States	62/336,389		
3996	P99416Z	Inactive	United States	62/370,625		
3997	P99501PCT-US	Inactive	United States	15/769,429	US-2018-0352572-A1	
3998	P99516-C1	Inactive	United States	16/693,827		
3999	P99603Z	Inactive	United States	62/338,026		
4000	P99665(2)	Inactive	United States	15/282,615	US-2018-0095426-A1	
4001	P99727Z	Inactive	United States	62/336,487		
4002	P99729Z	Inactive	United States	62/333,698		
4003	P99734Z	Inactive	United States	62/336,391		
4004	P99735Z	Inactive	United States	62/336,489		

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4005	P99736Z	Inactive	United States	62/336,490		
4006	P99750Z	Inactive	United States	62/336,397		
4007	P99823Z	Inactive	United States	62/340,193		
4008	P99824Z	Inactive	United States	62/339,633		
4009	P99825Z	Inactive	United States	62/340,319		
4010	P99864	Inactive	United States	15/200,343	US-2018-0007722-A1	
4011	P99866Z	Inactive	United States	62/338,914		
4012	P99910	Inactive	United States	15/372,030	US-2018-0158246-A1	
4013	P99914Z	Inactive	United States	62/342,420		