

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT8390267

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	INTEL CORPORATION	12/19/2023
RECEIVING PARTY DATA		
Name:	ALTERA CORPORATION	
Street Address:	101 INNOVATION DRIVE	
City:	SAN JOSE	
State/Country:	CALIFORNIA	
Postal Code:	95134	
PROPERTY NUMBERS Total: 559		
Property Type	Number	
Patent Number:	7924938	
Patent Number:	8385472	
Patent Number:	8923441	
Patent Number:	8136020	
Patent Number:	8238349	
Patent Number:	9208117	
Patent Number:	9619206	
Patent Number:	8199782	
Patent Number:	8363684	
Patent Number:	8705581	
Patent Number:	9281911	
Patent Number:	8254378	
Patent Number:	8477770	
Patent Number:	9264381	
Patent Number:	8498370	
Patent Number:	9043685	
Patent Number:	7180395	
Patent Number:	7426780	
Patent Number:	8528190	
Patent Number:	7688172	

PATENT

Property Type	Number
Patent Number:	8384506
Patent Number:	8631560
Patent Number:	8139362
Patent Number:	8701272
Patent Number:	10304615
Patent Number:	7521907
Patent Number:	8013580
Patent Number:	8736241
Patent Number:	9748840
Patent Number:	7893676
Patent Number:	7920042
Patent Number:	8339232
Patent Number:	8618900
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Patent Number:	7544995
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Patent Number:	9611561
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Patent Number:	8541991
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Patent Number:	9548714
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Patent Number:	9627028
Patent Number:	9553081
Patent Number:	9443839
Patent Number:	9299691
Patent Number:	10127013
Patent Number:	10110225

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Patent Number:	10061579
Patent Number:	10521227
Patent Number:	10218359
Patent Number:	10659052
Patent Number:	9948293
Patent Number:	11017243
Patent Number:	10439639
Patent Number:	11075648
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Patent Number:	10445278
Patent Number:	11100029
Patent Number:	11237998
Patent Number:	11693810
Application Number:	18327043
Patent Number:	10223483
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Patent Number:	10423747
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Patent Number:	11784794
Application Number:	17581751
Application Number:	17716928
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Application Number:	63414189
Application Number:	63429115
Application Number:	62488629
Application Number:	62488636
Application Number:	62488635
Application Number:	17838753
Application Number:	17406534

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: angela.miller@clarivate.com
Correspondent Name: ANGELA MILLER
Address Line 1: C/O CLARIVATE
Address Line 2: P.O. BOX 5427
Address Line 4: TUCSON, ARIZONA 85703

ATTORNEY DOCKET NUMBER:	PSG XFER - 559US
NAME OF SUBMITTER:	ANGELA MILLER
SIGNATURE:	/Angela Miller/
DATE SIGNED:	01/19/2024

Total Attachments: 28
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PATENT ASSIGNMENT AGREEMENT ("Assignment")

This Assignment is between:

Intel Corporation (Assignor)

a corporation of Delaware, having a principal place of business at 2200 Mission College Boulevard, Santa Clara, California, 95054, United States of America, and

Altera Corporation (Assignee)

a corporation of Delaware, having a principal place of business at 101 Innovation Drive, San Jose, California, 95134, United States of America.

For good and valuable consideration, the receipt of which is hereby acknowledged, Assignor does hereby assign, transfer and convey to Assignee and its successors and assigns all right, title and interest in and to the patents and patent applications identified in Schedule I attached hereto (the "**Listed Patents**") and the right to claim priority to any of Listed Patents anywhere in the world.

This Assignment will inure to the benefit of Assignee and its successors, assigns and other legal representatives and is binding upon Assignor and its successors, assigns, heirs, and legal representatives.

[Signature page follows]

AGREED to by Assignor as of the date of the signature below:

Assignor: Intel Corporation

Signature: *Kenneth Nelson*

Printed Name: Kenneth Nelson

Title: Assistant Director, Intel Patent Group

Date: December 19, 2023

ACCEPTED by Assignee as of the date of the signature below:

Assignee: Altera Corporation

Signature: *Tiffany Dawn Silva*

Printed Name: Tiffany Dawn Silva

Title: Director and Secretary

Date: 22 December 2023

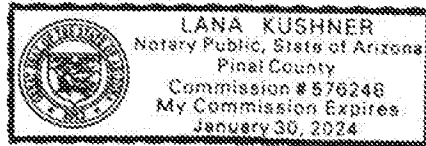
LEGAL OK	
Tiffany Silva	December 19, 2023

Certificate of Acknowledgement

State of Arizona)
)
County of Maricopa)

On this 19th day of December, 2023, before me personally

appeared Kenneth Nelson, whose identity was proven to me on the basis of satisfactory evidence to be the person who he claims to be, and acknowledged that he signed the attached document titled, Patent Assignment Agreement, on behalf of Intel Corporation as Assignor.



Lana Kushner
Lana Kushner
Notary Public

January 30, 2024
My commission expires

CALIFORNIA ACKNOWLEDGMENT

CIVIL CODE § 1189

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California

County of Santa Clara }

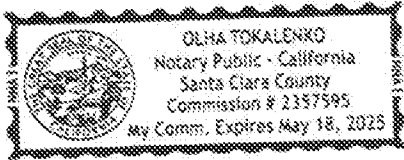
On December 22, 2023 before me, Olha Tokalenko, notary public
Date Here Insert Name and Title of the Officer

personally appeared Tiffany Doan Silva
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Place Notary Seal and/or Stamp Above

Signature Olha Tokalenko
Signature of Notary Public

OPTIONAL

Completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: _____

Document Date: _____ Number of Pages: _____

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____

Corporate Officer – Title(s): _____

Partner – Limited General

Individual Attorney in Fact

Trustee Guardian or Conservator

Other: _____

Signer is Representing: _____

Signer's Name: _____

Corporate Officer – Title(s): _____

Partner – Limited General

Individual Attorney in Fact

Trustee Guardian or Conservator

Other: _____

Signer is Representing: _____

Schedule I

NO.	CASE REFERENCE	COUNTRY	STATUS	FILING NUMBER	GRANT NUMBER	PUBLICATION NUMBER
1	A03730	United States	Active	11/902,532	7,924,898	US-2009-0080564-A1
2	A03730-C1	United States	Active	13/084,439	8,385,472	US-2011-0182581-A1
3	A03730-C2	United States	Active	13/774,537	8,923,441	US-2013-0230055-A1
4	A03731	United States	Active	11/987,300	8,136,020	US-2009-0077448-A1
5	A03732	United States	Active	12/141,157	8,238,349	US-2009-0319729-A1
6	A03732-C1	United States	Active	13/547,697	9,208,117	US-2012-0275462-A1
7	A03734-C1	United States	Active	14/259,824	9,619,206	US-2014-0237013-A1
8	A03736	United States	Active	12/488,836	8,199,782	US-2010-0215060-A1
9	A03736-C1	United States	Active	13/399,673	8,363,684	US-2012-0147905-A1
10	A03736-C2	United States	Active	13/750,377	8,705,581	
11	A03736-C3	United States	Active	14/243,725	9,281,911	
12	A03737	United States	Active	12/554,043	8,254,378	US-2011-0019666-A1
13	A03737-C1	United States	Active	13/555,755	8,477,770	US-2012-0287927-A1
14	A03737-C2	United States	Active	13/813,342	9,264,381	US-2013-0272300-A1
15	A03738	United States	Active	12/636,947	8,498,370	US-2011-0096882-A1
16	A03739	United States	Active	12/656,631	9,043,685	US-2011-0197111-A1
17	A04413	United States	Active	10/985,151	7,180,395	US-2006-0097832-A1
18	A04416	United States	Active	10/985,150	7,426,780	US-2006-0096087-A1
19	A04416-D1	United States	Active	12/196,062	8,528,190	US-2008-0301929-A1
20	A04417	United States	Active	11/244,127	7,688,172	US-2007-0075817-A1
21	A04417-C1	United States	Active	12/731,921	8,384,506	US-2010-0176905-A1
22	A04418	United States	Active	11/243,537	8,631,560	US-2007-0075815-A1
23	A04419	United States	Active	11/243,778	8,139,362	US-2007-0075816-A1
24	A04420	United States	Active	11/243,787	8,701,272	US-2007-0074386-A1
25	A04420-C1	United States	Active	14/220,478	10,304,615	US-2014-0203903-A1
26	A04421	United States	Active	11/368,559	7,521,907	US-2007-0210777-A1
27	A04421-C1	United States	Active	12/425,175	8,013,580	US-2009-0212751-A1
28	A04421-C2	United States	Active	13/224,620	8,736,241	US-2011-0316501-A1
29	A04421-C3	United States	Active	14/265,521	9,748,840	US-2014-0253058-A1
30	A04422	United States	Active	11/490,220	7,893,676	US-2008-0018966-A1
31	A04424	United States	Active	11/852,688	7,920,042	US-2009-0068400-A1
32	A04424-C1	United States	Active	13/076,034	8,339,232	US-2011-0181383-A1
33	A04424-C2	United States	Active	13/722,797	8,618,900	US-2013-0127577-A1
34	A04424-C3	United States	Active	14/105,461	9,299,489	US-2014-0104029-A1
35	A04424-C4	United States	Active	15/082,548	9,837,200	US-2016-0211069-A1
36	A04426	United States	Active	11/852,692	7,544,995	US-2009-0066300-A1
37	A04428	United States	Active	11/852,698	8,133,529	US-2009-0068347-A1
38	A04430	United States	Active	11/852,707	9,611,561	US-2009-0065363-A1
39	A04432-C1	United States	Active	13/108,423	8,288,277	US-2011-0217793-A1

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40	A04434-C1	United States	Active	12/707,420	8,154,261	US-2010-0141228-A1
41	A04434-C1-CIP	United States	Active	12/939,681	8,692,532	US-2011-0101934-A1
42	A04434-C1-CIP2	United States	Active	12/939,639	8,541,991	US-2011-0101933-A1
43	A04434-C1-CIP3	United States	Active	12/939,530	8,686,698	US-2011-0101948-A1
44	A04434-C1-CIP4	United States	Active	12/939,498	9,246,390	US-2011-0101949-A1
45	A04434-C1-CIP5	United States	Active	12/939,547	8,410,769	US-2011-0095742-A1
46	A04434-C2	United States	Active	12/718,749	8,283,901	US-2010-0156374-A1
47	A04435-CIP	United States	Active	12/393,818	8,339,802	US-2010-0214746-A1
48	A04436	United States	Active	12/244,672	8,153,473	US-2010-0087036-A1
49	A04436-CIP	United States	Active	12/393,835	8,266,793	US-2010-0212150-A1
50	A04437	United States	Active	12/345,232	8,698,463	US-2010-0164449-A1
51	A04438	United States	Active	12/345,242	9,548,714	US-2010-0164650-A1
52	A04439-CIP	United States	Active	13/089,763	8,867,295	US-2012-0154013-A1
53	A04439-CIP-C1	United States	Active	14/474,746	9,627,028	US-2014-0369147-A1
54	A04440-1	United States	Active	14/091,626	9,553,081	US-2014-0151794-A1
55	A04440-2	United States	Active	14/091,718	9,443,839	US-2014-0151795-A1
56	A04440-3	United States	Active	14/091,739	9,299,691	US-2014-0151797-A1
57	A04798	United States	Active	15/390,358	10,127,013	
58	A04828	United States	Active	15/341,423	10,110,225	
59	A04858	United States	Active	15/367,205	10,031,752	
60	A04858-1	United States	Active	15/367,208	10,061,579	
61	A04858-1-C1	United States	Active	16/042,910	10,521,227	US-2018-0329706-A1
62	A04872	United States	Active	15/638,151	10,218,359	US-2019-0007050-A1
63	A04872-C1	United States	Active	16/277,916	10,659,052	US-2019-0199354-A1
64	A05114	United States	Active	15/346,455	9,948,293	
65	A05124	United States	Active	15/369,716	11,017,243	US-2018-0157919-A1
66	A05126	United States	Active	15/392,209	10,439,639	US-2018-0183463-A1
67	A05126-C1	United States	Active	16/585,934	11,075,648	US-2020-0028521-A1
68	A05126-C1-C1	United States	Active	17/385,556		US-2022-0190843-A1
69	A05129	United States	Active	15/392,225	10,445,278	US-2018-0181524-A1
70	A05129-C1	United States	Active	16/536,147	11,100,029	US-2019-0361831-A1
71	A05129-C1-C1	United States	Active	17/131,404	11,237,998	US-2021-0109883-A1
72	A05129-C1-C1-C1	United States	Active	17/561,918	11,693,810	US-2022-0121595-A1
73	A05129-C1-C1-C1-C1	United States	Active	18/327,043		US-2023-0305982-A1
74	A05147	United States	Active	15/390,322	10,223,483	
75	A05180	United States	Active	15/439,017	10,536,174	
76	A05198	United States	Active	15/422,834	10,423,747	US-2018-0218103-A1
77	A05224	United States	Active	15/392,427	10,649,486	
78	A05225	United States	Active	15/365,675	10,866,608	US-2018-0150095-A1
79	A05227	United States	Active	15/342,286	10,169,518	
80	A05228	United States	Active	15/352,487	10,354,038	

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81	A05229	United States	Active	15/354,809	10,372,850	US-2018-0137226-A1
82	A05231	United States	Active	15/432,810	10,444,283	
83	A05231-1	United States	Active	15/429,008	10,101,387	
84	A05232	United States	Active	15/362,508	10,600,948	
85	A05233	United States	Active	15/438,228	10,355,909	
86	A05233-C1	United States	Active	16/421,208	10,938,620	US-2019-0342141-A1
87	A05235	United States	Active	15/432,823	10,541,705	
88	A05238	United States	Active	15/485,248	10,175,944	US-2018-0300105-A1
89	A05238-C1	United States	Active	16/228,248	10,521,194	US-2019-0196786-A1
90	A05239	United States	Active	15/359,548	10,218,386	
91	A05240	United States	Active	15/430,053	10,236,975	US-2018-0234177-A1
92	A05243	United States	Active	15/382,095	10,204,906	US-2018-0175033-A1
93	A05248	United States	Active	15/358,738	11,487,445	US-2018-0143777-A1
94	A05249	United States	Active	15/429,018	10,579,552	
95	A05250	United States	Active	15/615,704	10,110,229	
96	A05251	United States	Active	15/433,853	10,200,046	
97	A05252	United States	Active	15/438,479	10,248,484	US-2018-0209665-A1
98	A05253	United States	Active	15/421,090	10,074,409	US-2018-0218760-A1
99	A05256	United States	Active	15/629,543	10,164,804	US-2018-0375694-A1
100	A05257	United States	Active	15/381,981	10,291,397	US-2018-0176006-A1
101	A05257-D1	United States	Active	16/372,297	10,778,414	US-2019-0229888-A1
102	A05257-D1-D1	United States	Active	16/992,946	11,784,794	US-2020-0374102-A1
103	A05259-C1	United States	Active	17/581,751		US-2022-0149029-A1
104	A05259-C2	United States	Active	17/716,928		US-2022-0200993-A1
105	A05259-C2-C1	United States	Active	18/128,964		US-2023-0238356-A1
106	A05261	United States	Active	15/390,216	10,305,703	
107	A05262	United States	Active	15/422,971	10,181,001	US-2018-0218104-A1
108	A05264	United States	Active	15/389,292	9,893,732	
109	A05265	United States	Active	15/712,953	10,020,812	
110	A05266	United States	Active	15/477,859	10,528,413	US-2018-0285190-A1
111	A05267	United States	Active	15/391,511	10,318,686	US-2018-0101624-A1
112	A05270	United States	Active	15/422,966	10,671,345	US-2018-0217811-A1
113	A05271	United States	Active	15/719,058	10,223,014	US-2019-0095113-A1
114	A05273	United States	Active	15/634,312	10,608,676	US-2018-0375534-A1
115	A05274-US	United States	Active	15/692,659	10,872,130	US-2018-0285318-A1
116	A05275	United States	Active	15/828,238	10,187,064	
117	A05275-C1	United States	Active	16/235,926	10,587,273	US-2019-0165789-A1
118	A05275-C1-C1	United States	Active	16/747,408	11,115,026	US-2020-0153438-A1
119	A05277	United States	Active	15/416,589	10,964,624	US-2018-0211900-A1
120	A05278	United States	Active	15/634,902	10,055,526	
121	A05278-C1	United States	Active	16/105,306	10,303,834	US-2018-0373831-A1

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122	A05280	United States	Active	15/390,352	10,164,660	
123	A05282	United States	Active	15/633,792	10,942,706	US-2018-0321910-A1
124	A05283	United States	Active	15/599,122	11,086,788	US-2018-0336935-A1
125	A05284-US	United States	Active	15/443,791	10,020,957	
126	A05284-US-C1	United States	Active	16/029,900	10,476,716	US-2018-0316527-A1
127	AA0565-US	United States	Active	15/635,951	10,970,445	US-2019-0005174-A1
128	AA0642-US	United States	Active	15/842,311	11,256,836	US-2019-0042673-A1
129	AA0756-US	United States	Active	15/823,260	10,128,851	
130	AA0838-US	United States	Active	15/704,313	11,010,131	US-2019-0079728-A1
131	AA1052-US	United States	Active	15/718,993	11,334,696	US-2019-0095564-A1
132	AA1076-US	United States	Active	15/852,814	10,243,561	US-2019-0044514-A1
133	AA1085-US	United States	Active	15/853,005	11,301,412	US-2019-0197006-A1
134	AA1250-US	United States	Active	15/856,778	11,128,121	US-2019-0207378-A1
135	AA1278-US	United States	Active	15/878,348	11,190,335	US-2019-0044695-A1
136	AA1359-US	United States	Active	15/718,375	10,489,535	US-2018-0018416-A1
137	AA1375-US	United States	Active	16/222,564	11,443,073	US-2019-0138754-A1
138	AA1395-US	United States	Active	15/645,951	11,237,757	US-2019-0012116-A1
139	AA1644-US	United States	Active	15/718,424	10,157,247	US-2018-0018417-A1
140	AA1644-US-C1	United States	Active	16/151,171	10,922,461	US-2019-0102497-A1
141	AA1686-US	United States	Active	15/868,398	11,146,505	US-2019-0044885-A1
142	AA1686-US-C1	United States	Active	17/485,085	11,665,111	US-2022-0014482-A1
143	AA1759-US	United States	Active	15/842,331	11,101,925	US-2019-0190653-A1
144	AA1802-US	United States	Active	15/718,978	11,010,134	US-2018-0364981-A1
145	AA2117-US	United States	Active	15/842,343	11,003,446	US-2019-0018673-A1
146	AA2201-US	United States	Active	15/909,562	11,257,562	US-2019-0043601-A1
147	AA2209-US	United States	Active	15/818,298	11,175,892	US-2019-0155575-A1
148	AA2209-US-D1	United States	Active	17/484,845		US-2022-0012015-A1
149	AA2209-US-X1	United States	Active	16/144,904	10,970,042	US-2019-0155574-A1
150	AA2209-US-X1-C1	United States	Active	17/214,526	11,726,744	US-2021-0240440-A1
151	AA2209-US-X1-C1-C1	United States	Active	18/216,797		US-2023-0342111-A1
152	AA2249-US	United States	Active	15/863,544	11,256,978	US-2019-0042924-A1
153	AA2251-US	United States	Active	15/862,249	11,301,415	US-2019-0042533-A1
154	AA2266-US	United States	Active	15/836,093	11,043,942	US-2019-0123727-A1
155	AA3283-US	United States	Active	15/868,907	11,115,177	US-2019-0215146-A1
156	AA3351-US	United States	Active	15/940,799	11,281,383	US-2019-0042118-A1
157	AA3546-US	United States	Active	15/856,712	11,340,978	US-2019-0250869-A1
158	AA4289-US	United States	Active	15/855,419	11,632,112	US-2019-0044515-A1
159	AA4289-US-D1	United States	Active	18/300,330		US-2023-0253965-A1
160	AA4352-US	United States	Active	15/855,457	11,520,388	US-2019-0041923-A1
161	AA4407-MY-US	United States	Active	16/284,239	11,107,751	US-2019-0304876-A1
162	AA4407-MY-US-D1	United States	Active	17/461,459		US-2021-0391238-A1

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163	AA4407-MY-US-D1-C1	United States	Active	18/089,207		US-2023-0137035-A1
164	AA4542-US	United States	Active	15/847,136	11,520,395	US-2019-0041948-A1
165	AA4561-US	United States	Active	16/357,759	10,867,095	US-2019-0213295-A1
166	AA4726-US	United States	Active	16/022,983	11,342,238	US-2020-0006175-A1
167	AA4764-US	United States	Active	16/104,064	11,258,431	US-2020-0059222-A1
168	AA4867-US	United States	Active	15/938,740	11,188,255	US-2019-0303039-A1
169	AA4894-US	United States	Active	15/868,627	11,334,263	US-2019-0042127-A1
170	AA4973-US	United States	Active	15/868,304	11,257,526	US-2019-0043536-A1
171	AA5051-US	United States	Active	16/020,771	11,316,726	US-2020-0007379-A1
172	AA5191-US	United States	Active	16/023,724	11,056,452	US-2019-0042505-A1
173	AA5191-US2	United States	Active	16/023,846	11,121,109	US-2019-0191268-A1
174	AA5191-US2-C1	United States	Active	17/466,396	11,658,144	US-2023-0059491-A1
175	AA5191-US2-C1-C1	United States	Active	18/300,329		US-2023-0352431-A1
176	AA5849-US	United States	Active	15/933,057	11,163,530	US-2019-0042197-A1
177	AA5850-US	United States	Active	15/937,347	11,216,249	US-2019-0042874-A1
178	AA6163-US	United States	Active	16/020,805	11,562,101	US-2019-0050604-A1
179	AA6286-US	United States	Active	16/020,671	11,516,106	US-2019-0044840-A1
180	AA6499-US	United States	Active	16/020,748	11,296,706	US-2019-0044519-A1
181	AA6499-US-C1	United States	Active	17/710,628		US-2022-0294454-A1
182	AA6960-US	United States	Active	16/024,242	11,528,029	US-2019-0044520-A1
183	AA7903-US	United States	Active	16/022,857	11,080,019	US-2019-0042683-A1
184	AA8449-US	United States	Active	16/018,762	11,177,806	US-2019-0044513-A1
185	AA9259-US	United States	Active	16/052,336	11,334,318	US-2019-0042194-A1
186	AA9770-US	United States	Active	16/019,297	11,368,158	US-2019-0044518-A1
187	AA9882-US	United States	Active	16/103,709	11,789,883	US-2019-0050361-A1
188	AA9882-US-C1	United States	Active	18/478,003		
189	AB0035-US	United States	Active	16/232,023	11,609,262	US-2019-0146028-A1
190	AB0035-US-D1	United States	Active	18/086,615		US-2023-0129176-A1
191	AB0399-US	United States	Active	16/133,554	10,664,425	US-2020-0089633-A1
192	AB0788-US	United States	Active	16/236,062	10,666,261	US-2019-0140649-A1
193	AB0788-US-C1	United States	Active	16/882,037	11,128,301	US-2020-0321964-A1
194	AB0788-US-C1-C1	United States	Active	17/408,129	11,621,713	US-2021-0384911-A1
195	AB1129-US	United States	Active	16/218,179	11,436,399	US-2019-0121927-A1
196	AB1134-US	United States	Active	16/145,151	11,016,733	US-2019-0042200-A1
197	AB1377-US	United States	Active	16/147,098	10,340,920	
198	AB1686-US	United States	Active	16/147,084	10,853,034	US-2019-0309103-A1
199	AB1701-US	United States	Active	16/145,149	11,294,626	US-2019-0042193-A1
200	AB1701-US-C1	United States	Active	17/711,857		US-2022-0222040-A1
201	AB1763-US	United States	Active	16/144,558	10,790,829	US-2020-0106442-A1
202	AB1856-US	United States	Active	16/235,956	10,530,367	US-2019-0140647-A1

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203	AB2075-US	United States	Active	16/233,431	11,336,286	US-2019-0158096-A1
204	AB2094-US	United States	Active	16/144,999	10,871,946	US-2019-0042198-A1
205	AB2100-US	United States	Active	16/211,868	10,649,927	US-2019-0108145-A1
206	AB2271-US	United States	Active	16/157,989	10,572,430	US-2019-0042516-A1
207	AB2271-US-C1	United States	Active	16/780,713	11,100,032	US-2020-0174959-A1
208	AB2426-US	United States	Active	16/147,150	10,871,906	US-2020-0104064-A1
209	AB2426-US-C1	United States	Active	16/953,138	11,449,247	US-2021-0072908-A1
210	AB2729-US	United States	Active	16/176,900	10,831,689	US-2019-0065427-A1
211	AB3400-US	United States	Active	16/206,748	10,873,332	US-2019-0114140-A1
212	AB3400-US-C1	United States	Active	16/953,135	11,662,979	US-2021-0075425-A1
213	AB4319-US	United States	Active	16/146,586	11,625,245	US-2019-0042251-A1
214	AB4319-US-C1	United States	Active	18/298,278		US-2023-0244485-A1
215	AB4426-US	United States	Active	16/235,933	10,642,946	US-2019-0138680-A1
216	AB4426-US-D1	United States	Active	16/833,122	11,080,449	US-2020-0226313-A1
217	AB4426-US-D1-C1	United States	Active	17/392,218	11,714,941	US-2022-0198115-A1
218	AB4426-US-D1-C1-C1	United States	Active	18/327,045		US-2023-0306173-A1
219	AB4461-US	United States	Active	16/235,984	10,833,679	US-2019-0140648-A1
220	AB4461-US-C1	United States	Active	17/094,612	11,424,744	US-2021-0058085-A1
221	AB4461-US-C1-C1	United States	Active	17/893,004		US-2023-0056118-A1
222	AB4724-US	United States	Active	16/456,647	10,886,218	US-2019-0326210-A1
223	AB4724-US-C1	United States	Active	17/131,464	11,670,589	US-2021-0111116-A1
224	AB4724-US-C1-C1	United States	Active	18/137,405		US-2023-0378061-A1
225	AB4725-US	United States	Active	16/368,696	11,062,070	US-2019-0220566-A1
226	AB5040-US	United States	Active	16/146,849	10,666,265	US-2019-0103872-A1
227	AB5040-US-C1	United States	Active	16/882,029	11,223,361	US-2020-0358444-A1
228	AB5231-US	United States	Active	16/277,674	10,848,155	US-2019-0181865-A1
229	AB5426-US	United States	Active	16/234,231	10,812,085	US-2019-0131976-A1
230	AB5426-US-D1	United States	Active	17/074,245	11,444,624	US-2021-0036705-A1
231	AB5523-US	United States	Active	16/356,713	10,867,090	US-2019-0213289-A1
232	AB5543-US	United States	Active	16/369,973	11,216,532	US-2019-0228051-A1
233	AB5543-US-C1	United States	Active	17/560,950		US-2022-0114236-A1
234	AB5627-US	United States	Active	16/351,268	10,931,283	US-2019-0214996-A1
235	AB5627-US-C1	United States	Active	17/181,973		US-2022-0014200-A1
236	AB5667-US	United States	Active	16/357,019	10,834,009	US-2019-0215277-A1
237	AB5667-US-C1	United States	Active	17/093,200	11,431,646	US-2021-0089886-A1
238	AB5847-US	United States	Active	16/231,170	10,732,932	US-2020-0142671-A1
239	AB5924-US	United States	Active	16/232,834	10,936,511	US-2019-0129870-A1
240	AB6335-US	United States	Active	16/368,688	11,036,660	US-2019-0227963-A1
241	AB6335-US-C1	United States	Active	17/347,324	11,726,932	US-2021-0303491-A1
242	AB6459-US	United States	Active	16/298,852	11,281,830	US-2019-0205490-A1
243	AB6986-US	United States	Active	16/723,910		US-2020-0125446-A1

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244	AB7298-US	United States	Active	16/369,889	11,190,460	US-2019-0230049-A1
245	AB7298-US-C1	United States	Active	17/528,005	11,611,518	US-2022-0078136-A1
246	AB7298-US-C1-C1	United States	Active	18/177,417		US-2023-0208783-A1
247	AB7564-US	United States	Active	16/729,085	11,749,368	US-2020-0135289-A1
248	AB7594-US	United States	Active	16/456,491	10,879,803	US-2019-0319627-A1
249	AB7781-US	United States	Active	16/367,925	11,500,412	US-2019-0227590-A1
250	AB7781-US-D1	United States	Active	17/973,428		US-2023-0049681-A1
251	AB7809-US	United States	Active	16/442,367	11,178,055	US-2019-0306062-A1
252	AB7961-US	United States	Active	16/434,088	10,715,144	US-2019-0288688-A1
253	AB8883-US	United States	Active	16/439,577	10,587,270	US-2019-0296744-A1
254	AB8883-US-C1	United States	Active	16/777,375	11,121,715	US-2020-0395942-A1
255	AB9522-US	United States	Active	16/457,094	11,467,804	US-2019-0324724-A1
256	AB9615-US	United States	Active	16/448,912	10,756,880	US-2019-0319777-A1
257	AC0025-US	United States	Active	16/456,694	11,249,511	US-2019-0317548-A1
258	AC0065-US	United States	Active	16/457,114	10,922,471	US-2019-0318058-A1
259	AC0065-US-C1	United States	Active	17/133,984	11,556,692	US-2021-0117607-A1
260	AC0456-US	United States	Active	16/450,555	11,301,213	US-2019-0310828-A1
261	AC0640-US	United States	Active	16/585,857	11,210,063	US-2020-0026484-A1
262	AC0640-US-C1	United States	Active	17/552,436		US-2022-0107783-A1
263	AC0646-US	United States	Active	12/562,812	8,436,700	US-2011-0067982-A1
264	AC0647-US	United States	Active	11/737,894	8,504,865	US-2008-0263381-A1
265	AC0652-US	United States	Active	14/963,437	9,704,874	US-2017-0170186-A1
266	AC0662-US2	United States	Active	13/649,529	9,024,657	US-2014-0103959-A1
267	AC0664-US2	United States	Active	13/649,551	8,677,306	
268	AC0665-US	United States	Active	12/046,626	8,339,844	US-2008-0224260-A1
269	AC1045-US	United States	Active	16/586,131		US-2020-0167506-A1
270	AC1176-US	United States	Active	16/545,381	10,749,528	US-2019-0379380-A1
271	AC1176-US-C1	United States	Active	16/924,044	11,296,705	US-2021-0058086-A1
272	AC1176-US-C1-C1	United States	Active	17/713,030		US-2022-0231689-A1
273	AC1597-US	United States	Active	16/726,132	11,216,397	US-2020-0133902-A1
274	AC1597-US-C1	United States	Active	17/543,433	11,669,472	US-2022-0092009-A1
275	AC2215-US	United States	Active	16/566,059	11,249,726	US-2020-0004506-A1
276	AC2808-US	United States	Active	16/728,732	11,051,436	US-2020-0137934-A1
277	AC3150-US	United States	Active	16/723,901	11,784,118	US-2020-0126910-A1
278	AC3200-US	United States	Active	16/583,965		US-2020-0021320-A1
279	AC3909-US	United States	Active	16/818,889		US-2020-0218508-A1
280	AC3933-US	United States	Active	16/729,028		US-2020-0134236-A1
281	AC3957-US	United States	Active	16/701,739	11,164,847	US-2020-0105722-A1
282	AC3957-US-C1	United States	Active	17/485,078	11,658,159	US-2022-0013505-A1
283	AC4046-MY-US	United States	Active	17/030,080		US-2021-0183758-A1
284	AC4473-US-C1	United States	Active	18/356,008		US-2023-0367674-A1

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285	AC4669-US	United States	Active	16/726,128		US-2020-0133649-A1
286	AC4705-US	United States	Active	14/852,445	9,537,691	US-2016-0112224-A1
287	AC4841-US	United States	Active	16/721,458		US-2020-0125335-A1
288	AC4969-US	United States	Active	16/729,256	11,768,661	US-2021-0200514-A1
289	AC4969-US-C1	United States	Active	18/473,870		
290	AC4971-US	United States	Active	17/133,799		US-2021-0182187-A1
291	AC5062-US	United States	Active	16/720,346	11,301,611	US-2020-0125780-A1
292	AC5073-US	United States	Active	16/724,784		US-2020-0125329-A1
293	AC5114-US	United States	Active	17/029,445		US-2021-0006439-A1
294	AC5288-US	United States	Active	16/820,954		US-2020-0218775-A1
295	AC5548-US	United States	Active	16/818,163		US-2020-0210112-A1
296	AC5730-US	United States	Active	16/914,164		US-2020-0328192-A1
297	AC6039-US	United States	Active	16/914,025	11,656,872	US-2020-0326948-A1
298	AC6064-US	United States	Active	16/914,009		US-2020-0327271-A1
299	AC6064-US-C1	United States	Active	16/914,107	11,494,166	US-2021-0182023-A1
300	AC6064-US-C2	United States	Active	16/914,098	11,520,584	US-2021-0182022-A1
301	AC6340-US	United States	Active	16/914,018	11,809,798	US-2021-0182465-A1
302	AC7103-US	United States	Active	17/031,446		US-2021-0004032-A1
303	AC7654-US	United States	Active	17/033,526		US-2021-0012855-A1
304	AC7695-US	United States	Active	16/913,868		US-2020-0328789-A1
305	AC7766-US	United States	Active	17/032,560		US-2021-0011874-A1
306	AC8038-US	United States	Active	17/033,531		US-2021-0013648-A1
307	AC8245-US	United States	Active	16/875,804		US-2020-0278865-A1
308	AC8641-US	United States	Active	17/033,342		US-2021-0013885-A1
309	AC8798-US	United States	Active	17/033,348		US-2021-0011636-A1
310	AC8996-US	United States	Active	17/214,673		US-2021-0216281-A1
311	AC9034-US	United States	Active	16/889,449		US-2020-0293707-A1
312	AC9050-US	United States	Active	17/133,954		US-2021-0117359-A1
313	AC9087-US	United States	Active	17/033,655		US-2022-0102281-A1
314	AC9201-US	United States	Active	17/703,181		US-2022-0215147-A1
315	AC9413-US	United States	Active	17/067,365		US-2022-0114125-A1
316	AC9654-US	United States	Active	17/033,208		US-2021-0012051-A1
317	AC9807-US	United States	Active	17/031,820		US-2022-0094434-A1
318	AC9899-US	United States	Active	17/359,374		US-2022-0413216-A1
319	AD0007-US	United States	Active	17/133,928		US-2021-0223815-A1
320	AD0373-US	United States	Active	17/125,497		US-2022-0196939-A1
321	AD0374-US	United States	Active	17/125,505		US-2022-0198081-A1
322	AD0382-US	United States	Active	17/125,513		US-2022-0196929-A1
323	AD0835-US	United States	Active	17/357,869		US-2021-0320661-A1
324	AD0916-US	United States	Active	17/133,815		US-2021-0117157-A1
325	AD1051-US	United States	Active	17/129,889		US-2022-0038357-A1

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326	AD1846-US	United States	Active	17/132,672		US-2021-0149601-A1
327	AD2009-US	United States	Active	17/214,646		US-2021-0216318-A1
328	AD2145-US	United States	Active	17/359,027		US-2021-0326284-A1
329	AD2155-US	United States	Active	17/355,200		US-2022-0216891-A1
330	AD2643-US	United States	Active	17/128,773		US-2021-0111721-A1
331	AD3169-US	United States	Active	17/132,683		US-2022-0196735-A1
332	AD3242-US	United States	Active	17/132,663		US-2022-0197855-A1
333	AD3494-US	United States	Active	17/483,026		US-2022-0014197-A1
334	AD3699-US	United States	Active	17/848,298		US-2022-0318022-A1
335	AD3761-US	United States	Active	17/337,824	11,562,117	US-2021-0294953-A1
336	AD3778-US	United States	Active	17/358,982		US-2021-0328852-A1
337	AD3975-US	United States	Active	17/482,119		US-2023-0088853-A1
338	AD4178-US	United States	Active	17/213,021	11,574,101	US-2021-0216892-A1
339	AD4430-US	United States	Active	17/483,771		US-2023-0094919-A1
340	AD4437-US	United States	Active	17/484,543		US-2022-0014182-A1
341	AD4676-US	United States	Active	17/357,181		US-2021-0319841-A1
342	AD4700-US	United States	Active	17/353,549		US-2021-0313889-A1
343	AD4897-US	United States	Active	17/359,036		US-2021-0326116-A1
344	AD4992-US	United States	Active	17/350,577		US-2021-0313991-A1
345	AD4993-US	United States	Active	17/351,747		US-2021-0311537-A1
346	AD4994-US	United States	Active	17/354,473	11,489,527	US-2021-0313988-A1
347	AD5214-US	United States	Active	17/484,463		US-2022-0014199-A1
348	AD5218-US	United States	Active	17/482,220		US-2022-0004221-A1
349	AD5342-US	United States	Active	17/352,194		US-2021-0311517-A1
350	AD5383-US	United States	Active	17/485,351		US-2022-0012106-A1
351	AD5423-US	United States	Active	17/481,038		US-2022-0004688-A1
352	AD5549-US	United States	Active	17/531,356		US-2022-0077953-A1
353	AD5855-US	United States	Active	17/358,923		US-2021-0326111-A1
354	AD6133-US	United States	Active	17/555,253		US-2022-0109446-A1
355	AD6162-US	United States	Active	17/561,157		US-2022-0123753-A1
356	AD6171-US	United States	Active	17/478,040		US-2022-0005521-A1
357	AD6367-US	United States	Active	17/643,852		US-2022-0171659-A1
358	AD6455-US	United States	Active	17/556,979		US-2022-0116234-A1
359	AD6471-US	United States	Active	17/478,949		US-2022-0006682-A1
360	AD6581-US	United States	Active	17/560,838		US-2022-0188072-A1
361	AD6966-US	United States	Active	17/485,123		US-2022-0012012-A1
362	AD6980-US	United States	Active	17/525,894		US-2022-0077856-A1
363	AD7336-US	United States	Active	17/643,854		US-2022-0129252-A1
364	AD7364-US	United States	Active	17/481,069		US-2023-0100859-A1
365	AD7525-US	United States	Active	17/553,439		US-2022-0108733-A1
366	AD7724-US	United States	Active	17/553,227		US-2023-0194805-A1

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367	AD7910-US	United States	Active	17/559,427		US-2022-0156211-A1
368	AD7989-US	United States	Active	17/560,086		US-2022-0115047-A1
369	AD8040-US	United States	Active	17/703,974		US-2022-0216873-A1
370	AD8521-US	United States	Active	17/559,875		US-2022-0116373-A1
371	AD8632-US	United States	Active	17/725,307		US-2022-0244867-A1
372	AD8643-US	United States	Active	17/687,064		US-2022-0187370-A1
373	AD8717-US	United States	Active	17/711,840		US-2022-0221986-A1
374	AD8795-US	United States	Active	17/856,804		US-2022-0334609-A1
375	AD8833-US	United States	Active	17/559,338		US-2022-0113940-A1
376	AD8891-US	United States	Active	17/551,638		US-2022-0109581-A1
377	AD9427-US	United States	Active	17/561,534		US-2022-0121593-A1
378	AD9670-US	United States	Active	17/556,911		US-2022-0114321-A1
379	AD9723-US	United States	Active	17/559,851		US-2023-0195416-A1
380	AD9879-US	United States	Active	17/559,360		US-2022-0113694-A1
381	AD9882-US	United States	Active	17/559,607		US-2022-0114318-A1
382	AD9970-US	United States	Active	17/855,970		US-2022-0337249-A1
383	AE0135-US	United States	Active	17/559,569		US-2022-0116045-A1
384	AE0136-US	United States	Active	17/559,632		US-2022-0113788-A1
385	AE0137-US	United States	Active	17/559,645		US-2022-0115315-A1
386	AE0139-US	United States	Active	17/559,411		US-2022-0113756-A1
387	AE0183-US	United States	Active	17/680,062		US-2022-0182076-A1
388	AE0818-US	United States	Active	17/740,704		US-2022-0268837-A1
389	AE1133-US	United States	Active	17/746,924		US-2022-0277123-A1
390	AE1520-US	United States	Active	17/856,643		US-2022-0337251-A1
391	AE1521-US	United States	Active	17/856,479		US-2022-0337250-A1
392	AE1522-US	United States	Active	17/856,193		US-2022-0336415-A1
393	AE1523-US	United States	Active	17/711,779		US-2022-0229941-A1
394	AE1524-US	United States	Active	17/711,784		US-2022-0224342-A1
395	AE1525-US	United States	Active	17/711,795		US-2022-0294455-A1
396	AE1588-US	United States	Active	17/747,808		US-2022-0277799-A1
397	AE1985-US	United States	Active	17/854,341		US-2022-0405453-A1
398	AE2294-US	United States	Active	17/856,776		US-2022-0335190-A1
399	AE2306-US	United States	Active	17/856,799		US-2022-0335189-A1
400	AE2574-US	United States	Active	17/856,632		
401	AE2669-US	United States	Active	17/934,581		
402	AE2700-US	United States	Active	17/949,647		US-2023-0008041-A1
403	AE3049-US	United States	Active	17/852,093		US-2022-0334983-A1
404	AE3050-US	United States	Active	17/852,859		US-2022-0326676-A1
405	AE3051-US	United States	Active	17/853,772		US-2022-0334979-A1
406	AE3052-US	United States	Active	17/849,625		US-2022-0334630-A1
407	AE3053-US	United States	Active	17/950,728		US-2023-0018793-A1

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408	AE9054-US	United States	Active	17/954,698		US-2023-0035058-A1
409	AE3104-US	United States	Active	17/952,085		US-2023-0026331-A1
410	AE3610-US	United States	Active	17/957,235		US-2023-0027064-A1
411	AE3758-US	United States	Active	18/215,732		US-2023-0342313-A1
412	AE3840-US	United States	Active	17/956,555		US-2023-0027807-A1
413	AE4505-US	United States	Active	17/957,210		US-2023-0024515-A1
414	AE4506-US	United States	Active	17/957,204		US-2023-0028475-A1
415	AE4507-US	United States	Active	17/956,372		US-2023-0042718-A1
416	AE4508-US	United States	Active	17/957,217		US-2023-0024662-A1
417	AE4553-US	United States	Active	17/957,339		
418	AE5018-US	United States	Active	18/129,443		
419	AE6169-US	United States	Active	18/076,831		US-2023-0096355-A1
420	AE6171-US	United States	Active	17/956,565		US-2023-0018414-A1
421	AE6231-US	United States	Active	18/071,923		
422	AE6276-US	United States	Active	18/084,158		US-2023-0118912-A1
423	AE6277-US	United States	Active	18/070,361		US-2023-0100829-A1
424	AE6615-US	United States	Active	17/970,557		US-2023-0052788-A1
425	AE6945-US	United States	Active	18/077,187		US-2023-0108339-A1
426	AE7994-US	United States	Active	18/145,002		US-2023-0128025-A1
427	AE8537-US	United States	Active	18/091,626		US-2023-0140547-A1
428	AE8851-US	United States	Active	18/191,789		US-2023-0237230-A1
429	AE9029-US	United States	Active	18/075,183		US-2023-0096585-A1
430	AE9195-US	United States	Active	18/122,238		US-2023-0213581-A1
431	AE9344-US	United States	Active	18/077,170		US-2023-0116594-A1
432	AE9429-US	United States	Active	18/373,878		
433	AE9845-US	United States	Active	18/140,481		
434	AE9874-US	United States	Active	18/085,528		US-2023-0123826-A1
435	AF0196-US	United States	Active	18/201,698		
436	AF0598-US	United States	Active	18/210,630		US-2023-0367547-A1
437	AF0643-US	United States	Active	18/122,656		US-2023-0273770-A1
438	AF0665-US	United States	Active	18/122,612		US-2023-0222275-A1
439	AF0989-US	United States	Active	18/196,112		
440	AF1129-US	United States	Active	18/124,259		US-2023-0222274-A1
441	AF1175-US	United States	Active	18/191,785		US-2023-0237231-A1
442	AF1371-US	United States	Active	18/217,349		
443	AF1505-US	United States	Active	18/129,709		US-2023-0239136-A1
444	AF1684-US	United States	Active	18/129,341		US-2023-0237014-A1
445	AF1794-US	United States	Active	18/213,257		US-2023-0333857-A1
446	AF1794-Z	United States	Active	63/443,314		
447	AF1868-US	United States	Active	18/372,260		
448	AF1894-US	United States	Active	18/475,512		

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449	AF1917-US	United States	Active	18/338,236		US-2023-0333826-A1
450	AF2286-US	United States	Active	18/216,867		US-2023-0342309-A1
451	AF2287-US	United States	Active	18/207,842		US-2023-0334212-A1
452	AF2288-US	United States	Active	18/217,200		US-2023-0341463-A1
453	AF3076-US	United States	Active	18/241,217		
454	AF3316-US	United States	Active	18/217,011		US-2023-0342418-A1
455	AF3643-US	United States	Active	18/478,621		
456	AF3747-US	United States	Active	18/475,199		
457	AF3834-US	United States	Active	18/375,299		
458	AF3844-US	United States	Active	18/236,737		US-2023-0393197-A1
459	AF3917-US	United States	Active	18/478,661		
460	AF4387-US	United States	Active	18/478,537		
461	AF4432-US	United States	Active	18/478,755		
462	AF4680-US	United States	Active	18/478,602		
463	AF4711-US	United States	Active	18/476,702		
464	AF5009-US	United States	Active	18/369,612		
465	AIV8132-US	United States	Active	15/719,413	11,379,645	US-2019-0095567-A1
466	AIV8132-US-D1	United States	Active	17/850,560		US-2022-0327271-A1
467	AIV8133-US	United States	Active	15/841,064	11,210,443	US-2019-0179990-A1
468	AIV8144-US	United States	Active	15/714,361	11,159,167	US-2019-0097635-A1
469	AIV8144-US-D1	United States	Active	17/485,373	11,799,485	US-2022-0014201-A1
470	AIV8146-US	United States	Active	15/719,289	11,177,811	US-2019-0097637-A1
471	AIV8146-US-C1	United States	Active	17/484,911	11,646,739	US-2022-0014204-A1
472	AIV8154-US	United States	Active	15/940,864	11,115,025	US-2019-0044517-A1
473	AIV8174-US	United States	Active	15/719,039	11,329,833	US-2019-0097818-A1
474	AIV8195-US	United States	Active	15/855,434	11,101,923	US-2019-0044650-A1
475	AIV8196-US	United States	Active	15/625,897	10,218,358	US-2018-0367147-A1
476	AIV8224-US	United States	Active	15/717,655	11,194,947	US-2019-0095570-A1
477	AIV8227-US	United States	Active	15/715,795	11,361,133	US-2019-0095566-A1
478	AIV8228-US	United States	Active	15/719,194	10,320,393	US-2019-0097636-A1
479	AIV8236-US	United States	Active	15/941,983	10,860,760	US-2018-0307783-A1
480	AIV8237-US	United States	Active	15/855,604	11,416,736	US-2018-0307975-A1
481	AIV8241-US	United States	Active	15/719,922	10,585,621	US-2018-0307438-A1
482	AIV8245-US	United States	Active	15/592,806	10,241,844	US-2018-0329759-A1
483	AIV8277-US	United States	Active	15/870,442	11,137,806	US-2019-0043737-A1
484	AIV8277-US-C1	United States	Active	17/483,798	11,714,471	US-2022-0011838-A1
485	AIV8282-US	United States	Active	15/622,248	10,997,339	US-2018-0365346-A1
486	AIV8293-US	United States	Active	15/721,195	11,675,948	US-2019-0102500-A1
487	AIV8293-US-C1	United States	Active	18/311,886		US-2023-0342531-A1
488	AIV8295-US	United States	Active	15/637,637	11,379,242	US-2019-0004804-A1
489	AIV8301-US	United States	Active	15/942,091	11,256,979	US-2019-0303748-A1

NO.	CASE REFERENCE	COUNTRY	STATUS	FILING NUMBER	GRANT NUMBER	PUBLICATION NUMBER
490	AIV8303-US	United States	Active	15/537,726	10,090,840	
491	AIV8303-US-D1	United States	Active	16/116,803	10,447,275	US-2019-0020344-A1
492	AIV8306-US	United States	Active	15/718,685	11,113,442	US-2019-0095571-A1
493	AIV8322-US	United States	Active	15/718,956	11,086,817	US-2019-0095384-A1
494	A03731Z	United States	Inactive	60/994,314		
495	A03734	United States	Inactive	12/458,122	8,745,113	US-2010-0287224-A1
496	A03736-C2-C2	United States	Inactive	14/195,337		
497	A03736Z	United States	Inactive	61/154,058		
498	A03737Z	United States	Inactive	61/227,923		
499	A03738-C1	United States	Inactive	13/932,637	8,718,215	US-2013-0294555-A1
500	A04415	United States	Inactive	10/985,825	7,462,317	US-2006-0096088-A1
501	A04415-C1	United States	Inactive	12/269,651	8,043,544	US-2009-0065964-A1
502	A04432	United States	Inactive	11/852,716	7,943,510	US-2009-0068762-A1
503	A04434	United States	Inactive	12/103,993	7,679,342	US-2009-0261791-A1
504	A04435	United States	Inactive	12/244,669	8,054,086	US-2010-0084750-A1
505	A04439	United States	Inactive	12/971,166		US-2012-0153912-A1
506	A04440-4	United States	Inactive	14/091,839		US-2014-0159130-A1
507	A04440Z	United States	Inactive	61/732,208		
508	A04588-1-CIP-C1	United States	Inactive	15/362,486		
509	A05247	United States	Inactive	15/358,665		US-2018-0143860-A1
510	A05259	United States	Inactive	15/439,118		US-2018-0240778-A1
511	A05267-Z	United States	Inactive	62/406,877		
512	A05274-Z	United States	Inactive	62/481,504		
513	A05282-Z	United States	Inactive	62/502,127		
514	AA1802-Z	United States	Inactive	62/522,546		
515	AA2117-Z	United States	Inactive	62/532,871		
516	AA2249-US-D1	United States	Inactive	17/677,556		US-2022-0230057-A1
517	AA2249-Z	United States	Inactive	62/532,874		
518	AA2249-Z2	United States	Inactive	62/555,510		
519	AA2266-Z	United States	Inactive	62/576,278		
520	AA5191-US-D1	United States	Inactive	17/335,012		US-2021-0288013-A1
521	AA5191-Z	United States	Inactive	62/577,581		
522	AA6163-Z	United States	Inactive	62/585,522		
523	AA7903-Z	United States	Inactive	62/616,929		
524	AB2100-Z	United States	Inactive	62/719,911		
525	AB2426-US-C1-C1	United States	Inactive	17/133,835		
526	AB3400-Z	United States	Inactive	62/697,265		
527	AB5543-Z	United States	Inactive	62/736,981		
528	AB9522-Z	United States	Inactive	62/814,100		
529	AB9963-US	United States	Inactive	16/456,056		US-2019-0318991-A1
530	AC0065-Z	United States	Inactive	62/820,049		

NO.	CASE REFERENCE	COUNTRY	STATUS	FILING NUMBER	GRANT NUMBER	PUBLICATION NUMBER
531	AC0640-Z	United States	Inactive	62/824,797		
532	AC0662-US1	United States	Inactive	13/622,029		
533	AC0664-US1	United States	Inactive	13/622,091		
534	AC0665-US-X1	United States	Inactive	12/732,436		US-2010-0182044-A1
535	AC0665-Z	United States	Inactive	60/894,548		
536	AC0947-US	United States	Inactive	16/586,633		US-2020-0027828-A1
537	AC4473-US	United States	Inactive	16/699,235		US-2020-0097362-A1
538	AC4552-US	United States	Inactive	16/720,318		US-2020-0125959-A1
539	AC4706-US	United States	Inactive	13/947,134		US-2014-0133614-A1
540	AC6039-Z	United States	Inactive	62/948,124		
541	AC6064-Z	United States	Inactive	62/948,110		
542	AC6340-Z	United States	Inactive	62/948,114		
543	AC8996-Z	United States	Inactive	63/004,469		
544	AD0907-Z	United States	Inactive	63/081,134		
545	AD0835-Z	United States	Inactive	63/044,850		
546	AD1051-Z	United States	Inactive	63/059,698		
547	AD3009-Z	United States	Inactive	63/072,095		
548	AD2155-Z	United States	Inactive	63/134,663		
549	AD8717-Z	United States	Inactive	63/311,028		
550	AE3758-Z	United States	Inactive	63/403,426		
551	AE6615-Z	United States	Inactive	63/409,648		
552	AE9048-Z	United States	Inactive	63/409,201		
553	AE9429-Z	United States	Inactive	63/414,189		
554	AF0628-Z	United States	Inactive	63/429,115		
555	AIV8236-Z	United States	Inactive	62/488,629		
556	AIV8237-Z	United States	Inactive	62/488,636		
557	AIV8241-Z	United States	Inactive	62/488,635		
558	AIV8295-US-C1	United States	Inactive	17/838,753		
559	AIV8306-US-D1	United States	Inactive	17/466,534		US-2021-0383049-A1

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