Forward-citation benchmark for U.S. Patent No. 11,876,445

Peer group: U.S. granted patents in CPC H02M3/1584 (multiphase DC-DC converters) and subgroups, priority year 2020

Method. Data retrieved from Google Patents on October 30, 2026. Peer group: query `cpc=H02M3/1584, country=US, status=GRANT, priority 2020-01-01 to 2020-12-31` (224 results), https://patents.google.com/?cpc=H02M3%2F1584&country=US&before=priority:20201231&after=priority:20200101&status=GRANT. U.S. Patent No. 11,876,445 is classified in CPC H02M3/1586, a subgroup of H02M3/1584, and is included in the peer group. For each patent, citations were counted as shown on its Google Patents page: the "Cited By" table plus the "Families Citing this family" table. The same count for U.S. 11,876,445 is 27, identical to the 27 citing publications listed on the page of its published application, US 2022/0109368 A1.

Summary.

Patents in peer group	224
Patents with no citations	22 (10%)
Patents with 3 or fewer citations	101 (45%)
Median citations	4
Mean citations	6.0
90th / 95th / 99th percentile	14 / 19 / 28
U.S. 11,876,445	**27 (rank 4 of 224; top 2%)**

All 224 patents, ranked by total citations.

Rank	Patent	Cited by	Family citing	Total
1	US11532987B2	9	23	32
2	US10992226B1	22	7	29
3	US11764669B2	3	25	28
4	US11876445B2 (Kshirsagar)	3	24	27
5	US11757298B2	1	23	24
6	US12027982B2	0	22	22
7	US11387736B2	7	14	21
8	US12424936B2	0	20	20
9	US11545892B2	1	19	20
10	US11621633B2	1	19	20
11	US11552569B2	1	19	20
12	US11283273B2	3	16	19
13	US11671002B2	3	16	19
14	US12047003B2	0	18	18
15	US12401261B2	0	18	18
16	US11241973B2	3	15	18
17	US12451536B2	0	17	17
18	US12697892B2	0	17	17
19	US11929680B2	0	16	16
20	US11658570B2	0	16	16
21	US11545902B2	4	11	15
22	US11824430B2	0	15	15
23	US11569668B2	5	9	14
24	US11575304B2	1	12	13
25	US11603005B2	2	11	13
26	US11390179B2	1	12	13
27	US11381173B2	3	10	13
28	US11258364B2	1	12	13
29	US11532986B2	2	11	13
30	US11451135B2	0	13	13
31	US11699950B2	0	12	12
32	US12444963B2	0	11	11
33	US11552546B2	1	10	11

Rank	Patent	Cited by	Family citing	Total
34	US12451278B2	0	11	11
35	US11831242B2	2	9	11
36	US11342848B2	5	6	11
37	US12132406B2	1	10	11
38	US12633819B2	0	11	11
39	US12211827B2	0	11	11
40	US11742751B2	1	10	11
41	US11841724B2	1	9	10
42	US12244232B2	0	10	10
43	US11258365B2	1	9	10
44	US11677306B2	2	8	10
45	US11621640B2	3	6	9
46	US12170479B2	0	9	9
47	US11271480B2	1	8	9
48	US11779826B2	0	9	9
49	US11694833B2	0	9	9
50	US11594972B2	1	8	9
51	US11545301B2	0	9	9
52	US11961658B2	0	9	9
53	US11329569B2	2	7	9
54	US11283351B2	1	8	9
55	US11588404B2	0	9	9
56	US11387737B2	1	8	9
57	US12525597B2	0	8	8
58	US11831240B2	0	8	8
59	US11777413B2	0	8	8
60	US12113442B2	2	6	8
61	US11996789B2	0	8	8
62	US11776735B2	0	8	8
63	US11349396B2	1	7	8
64	US10795390B1	7	1	8
65	US11368089B2	3	5	8
66	US11606029B2	2	6	8
67	US11228248B1	8	0	8
68	US11233454B2	0	7	7
69	US12585323B2	0	7	7
70	US12237773B2	1	6	7
71	US12224604B2	0	7	7
72	US11605957B2	1	6	7
73	US11764679B2	0	7	7
74	US11447026B2	1	6	7
75	US12368312B2	0	7	7
76	US12334815B2	0	7	7
77	US11569748B2	0	7	7
78	US11817781B2	0	6	6
79	US11277003B2	2	4	6
80	US12136889B2	0	6	6
81	US12142550B2	1	5	6
82	US12348069B2	0	6	6
83	US11444533B2	1	5	6
84	US11474547B2	1	5	6
85	US11303214B2	1	5	6
86	US11750079B2	0	6	6
87	US12283905B2	0	6	6
88	US11646666B2	1	4	5
89	US12560956B2	0	5	5
90	US12131861B2	0	5	5
91	US12040715B2	0	5	5
92	US12327670B2	0	5	5
93	US12155315B2	0	5	5

Rank	Patent	Cited by	Family citing	Total
94	US11616431B2	0	5	5
95	US12046782B2	0	5	5
96	US11527959B2	0	5	5
97	US12434642B2	0	5	5
98	US12061507B2	0	5	5
99	US11296704B2	0	5	5
100	US11563369B2	1	4	5
101	US11424680B2	0	5	5
102	US11641153B2	0	4	4
103	US12445037B2	0	4	4
104	US11539284B2	0	4	4
105	US11869695B2	0	4	4
106	US11876452B2	0	4	4
107	US11575320B2	0	4	4
108	US12027973B2	0	4	4
109	US11664747B2	0	4	4
110	US11336182B2	0	4	4
111	US11664728B2	2	2	4
112	US11682964B2	0	4	4
113	US11736017B2	0	4	4
114	US11942864B2	0	4	4
115	US11334108B2	1	3	4
116	US11527958B2	0	4	4
117	US12418239B2	0	4	4
118	US11316430B2	0	4	4
119	US11368092B2	0	4	4
120	US11437908B2	0	4	4
121	US11522460B2	2	2	4
122	US11222687B2	0	4	4
123	US12074522B2	0	4	4
124	US12706475B2	0	3	3
125	US12261532B2	1	2	3
126	US12191804B2	0	3	3
127	US12166375B2	1	2	3
128	US12279373B2	0	3	3
129	US11742762B2	1	2	3
130	US11722059B2	0	3	3
131	US11671003B2	0	3	3
132	US12261530B2	0	3	3
133	US12348122B2	0	3	3
134	US11688548B2	0	3	3
135	US11742760B2	1	2	3
136	US11431245B2	2	1	3
137	US11699958B2	0	3	3
138	US12095403B2	0	3	3
139	US11476765B2	0	3	3
140	US11807116B2	0	3	3
141	US11190105B1	1	2	3
142	US12222378B2	0	3	3
143	US11444536B2	0	3	3
144	US11677313B2	1	2	3
145	US11381171B2	0	3	3
146	US11239751B2	1	2	3
147	US11646748B2	0	3	3
148	US11128219B1	3	0	3
149	US12176814B1	1	1	2
150	US12431788B2	0	2	2
151	US12119747B2	0	2	2
152	US12015340B2	1	1	2
153	US11398776B2	2	0	2

Rank	Patent	Cited by	Family citing	Total
154	US11374490B2	0	2	2
155	US11251802B1	0	2	2
156	US11742759B2	0	2	2
157	US11322937B2	0	2	2
158	US11809260B2	0	2	2
159	US11294411B1	2	0	2
160	US11349391B1	1	1	2
161	US11502602B2	0	2	2
162	US12068684B2	0	2	2
163	US11594879B2	0	2	2
164	US11824450B2	0	2	2
165	US11658557B2	0	2	2
166	US12334837B2	0	2	2
167	US12119158B2	0	2	2
168	US12283897B2	0	2	2
169	US11901837B2	1	1	2
170	US11863073B2	0	2	2
171	US11515777B2	0	2	2
172	US11870332B2	0	2	2
173	US12630025B2	0	2	2
174	US12348137B2	0	2	2
175	US12249943B2	0	2	2
176	US12101029B2	0	2	2
177	US12562301B2	0	2	2
178	US11756725B2	0	2	2
179	US12113443B2	0	2	2
180	US11303207B2	0	2	2
181	US11402414B2	1	1	2
182	US11554642B2	0	2	2
183	US11489458B2	0	2	2
184	US11606034B2	0	1	1
185	US12107520B2	0	1	1
186	US11742767B2	1	0	1
187	US11742755B2	0	1	1
188	US12431804B2	0	1	1
189	US12512761B2	0	1	1
190	US11656644B2	0	1	1
191	US11679684B2	0	1	1
192	US11588401B2	0	1	1
193	US12149180B2	1	0	1
194	US11890955B2	0	1	1
195	US12249864B2	0	1	1
196	US11075608B1	1	0	1
197	US11916478B2	0	1	1
198	US11522461B2	0	1	1
199	US11223280B1	1	0	1
200	US11671009B2	0	1	1
201	US12261029B2	0	1	1
202	US12263798B2	0	1	1
203	US12712396B2	0	0	0
204	US12603210B2	0	0	0
205	US11953937B2	0	0	0
206	US11955879B2	0	0	0
207	US12237767B2	0	0	0
208	US12341431B2	0	0	0
209	US12567809B2	0	0	0
210	US11606033B2	0	0	0
211	US12034371B1	0	0	0
212	US11394297B2	0	0	0
213	US11880173B2	0	0	0

Rank	Patent	Cited by	Family citing	Total
214	US11611291B2	0	0	0
215	US11791726B2	0	0	0
216	US11750096B2	0	0	0
217	US12369252B2	0	0	0
218	US11695349B2	0	0	0
219	US11545898B1	0	0	0
220	US12456925B2	0	0	0
221	US12198845B2	0	0	0
222	US11646674B2	0	0	0
223	US12095371B1	0	0	0
224	US11671018B2	0	0	0