



APPENDIX TABLE 6-64

USPTO patents granted in hybrid and electric vehicle technology, by region, country, or economy: 1998–2016

(Number)

Region, country, or economy	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
World	322	311	286	352	438	407	371	368	435	439	452	515	718	796	1,088	1,335	1,543	1,767	1,724
North America	110	107	95	121	148	143	119	127	183	187	184	210	300	319	458	497	529	588	599
Canada	5	7	4	6	5	11	5	6	6	7	5	5	12	6	9	17	16	12	15
Mexico	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	4
Puerto Rico	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
United States	104	101	91	114	143	132	114	121	177	181	179	204	287	313	450	479	513	575	580
Central and South America	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0
Argentina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brazil	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0
All others	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Europe	71	49	54	92	89	74	77	61	58	56	83	61	109	94	163	258	258	302	313
EU	69	42	53	87	89	73	73	59	56	56	80	60	108	91	160	246	252	299	304
Austria	1	1	0	1	1	0	1	1	1	1	2	1	3	1	7	6	3	5	8
Belgium	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	1	2
Denmark	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Finland	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	4	2



Region, country, or economy	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
France	12	6	11	12	17	11	16	7	6	13	13	11	19	13	32	31	44	41	47
Germany	44	26	35	62	51	46	47	38	36	33	56	42	70	64	100	162	153	180	165
Hungary	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0
Ireland	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Italy	3	3	1	5	7	4	3	1	6	1	3	2	4	4	10	15	14	24	15
Netherlands	0	0	0	0	1	1	1	0	0	0	1	0	2	1	0	2	5	4	4
Spain	1	0	1	0	1	4	0	3	3	3	0	1	0	1	1	1	2	3	3
Sweden	0	1	1	2	5	4	4	2	1	2	3	0	4	2	4	14	22	16	32
United Kingdom	6	5	3	5	4	3	2	4	3	2	3	3	5	4	4	10	5	20	22
All others	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	0	1	3
Other Europe	2	7	1	4	0	1	4	2	2	0	3	1	1	3	3	12	7	3	9
Former Soviet Union	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Norway	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Russia	1	1	1	0	0	1	1	1	0	0	1	0	0	0	0	3	0	0	1
Switzerland	1	6	0	4	0	0	3	1	2	0	2	1	1	3	3	9	6	3	7
All others	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Asia	137	150	136	138	200	190	174	178	193	195	185	244	308	378	465	574	745	871	806
China	1	0	1	0	0	0	1	2	2	3	2	1	5	4	15	20	20	14	29
India	0	0	0	0	0	0	0	0	0	1	0	0	1	1	4	10	4	7	3



Region, country, or economy	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Japan	129	145	129	133	193	179	158	165	178	178	166	201	265	340	392	460	578	675	574
Malaysia	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Singapore	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	1	1
South Korea	5	4	3	3	4	2	6	8	5	8	12	23	25	27	43	68	128	155	175
Taiwan	2	1	3	1	3	9	9	3	8	6	4	19	12	5	11	14	14	20	22
All others	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Middle East	1	1	0	0	0	0	0	1	0	0	1	0	0	4	1	4	4	1	1
Israel	1	0	0	0	0	0	0	1	0	0	1	0	0	4	1	3	4	1	1
All others	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Africa	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Africa	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
All others	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia and Oceania	3	1	1	1	1	0	0	1	1	0	0	0	1	1	1	2	6	4	6
Australia	0	0	0	1	1	0	0	1	1	0	0	0	1	1	1	2	5	3	0
New Zealand	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	6
Unclassified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0

EU = European Union; USPTO = U.S. Patent and Trademark Office.

Note(s)



Patents are fractionally allocated among regions, countries, or economies based on the proportion of residences of all named inventors. The EU includes 28 member countries. Technologies are based on a classification developed by The Patent Board.

Source(s)

Science-Metrix; PatentsView and USPTO patent data.

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