

Appendix table 6-59

USPTO patents granted in energy storage technology, by region/country/economy: Selected years, 1997–2012

Region/country/economy	1997	1999	2001	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
World	349	401	540	618	617	463	533	508	530	619	989	933	1,098
North America	165	191	233	241	263	194	233	199	233	237	369	341	384
Bermuda	0	0	0	0	0	0	0	0	0	0	0	0	0
Canada	15	15	16	18	17	17	16	9	8	17	18	19	28
Mexico	0	0	1	0	0	0	0	0	0	0	0	0	0
United States	150	176	216	223	246	177	217	190	224	219	351	321	356
Central and South America	0	0	2	0	0	1	1	0	1	0	0	0	1
Argentina	0	0	0	0	0	0	0	0	0	0	0	0	0
Brazil	0	0	0	0	0	0	0	0	0	0	0	0	0
All others	0	0	2	0	0	1	1	0	1	0	0	0	1
Europe	34	36	62	61	71	54	42	41	50	53	89	81	84
EU	32	32	56	54	59	43	34	35	42	46	77	73	74
Austria	2	1	0	0	1	3	0	0	1	1	1	1	0
Belgium	0	0	1	0	0	0	0	0	0	0	0	1	1
Denmark	0	3	4	1	2	2	0	0	1	4	0	2	1
Finland	2	1	0	0	0	0	1	0	0	0	2	0	0
France	11	8	18	11	9	4	3	6	9	12	21	29	22
Germany	10	13	22	26	37	22	16	21	12	19	36	25	30
Hungary	0	0	0	0	0	0	0	0	0	0	0	0	1
Ireland	0	0	0	0	0	0	0	0	1	0	0	0	0
Italy	3	1	2	1	2	2	2	1	2	1	7	0	5
Netherlands	2	1	2	4	2	5	1	0	8	1	1	0	2
Spain	0	0	1	1	1	0	1	0	0	0	0	2	0
Sweden	0	0	1	1	1	1	2	1	1	0	3	2	2
United Kingdom	2	4	7	6	4	5	9	7	6	5	6	10	9
All others	0	0	0	3	0	0	0	0	2	2	0	1	3
Other Europe	2	4	6	7	12	11	8	6	8	7	12	8	10
Norway	0	1	1	1	2	2	0	2	1	0	2	1	0
Russia	0	0	3	3	3	4	3	1	4	3	4	4	3
Former Soviet Union	1	3	0	0	0	0	0	0	0	0	0	0	0
Switzerland	1	0	2	2	5	3	5	3	2	4	6	3	6
All others	0	0	0	1	2	2	0	0	1	0	0	0	1
Asia	144	166	239	309	276	210	253	262	242	317	521	498	622
China	0	1	1	1	2	1	1	1	3	2	18	14	31
India	0	0	0	1	0	1	0	1	0	0	3	0	0
Japan	128	149	212	264	230	174	205	206	198	228	308	308	417
Malaysia	0	0	0	0	1	0	0	0	0	0	0	0	0
Singapore	1	0	0	0	0	1	0	1	0	0	1	2	0
South Korea	12	14	22	36	36	30	41	46	36	77	170	158	164
Taiwan	3	2	4	7	7	3	6	6	5	10	21	15	10
All others	0	0	0	0	0	0	0	1	0	0	0	1	0

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Region/country/economy	1997	1999	2001	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Middle East	2	3	3	1	4	1	1	2	1	5	3	6	4
Israel	1	3	3	1	3	1	1	1	1	5	1	6	3
All others	1	0	0	0	1	0	0	1	0	0	2	0	1
Africa	1	2	0	0	1	0	0	0	1	1	4	2	0
South Africa	1	2	0	0	1	0	0	0	1	1	4	1	0
All others	0	0	0	0	0	0	0	0	0	0	0	1	0
Australia/Oceania	4	3	2	5	2	4	4	5	4	7	3	6	4
Australia	4	2	1	5	2	4	4	4	4	6	2	5	4
New Zealand	0	1	1	0	0	1	0	1	0	1	2	1	0
All others	0	0	0	0	0	0	0	0	0	0	0	0	0

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

NOTES: Energy storage technology includes batteries, compressed air, flywheels, superconductivity magnet energy systems, ultracapacitors, hydrogen production and storage, and thermal energy storage. Technologies are classified by The Patent Board™. Patents are fractionally allocated among regions/countries/economies based on the proportion of residences of all named inventors. The EU includes 27 member countries. China includes Hong Kong. Detail may not add to total because of rounding or minor discrepancies. See appendix table 6-41 for a full list of countries/economies by region.

SOURCE: The Patent Board™, special tabulations (2013) of the Proprietary Patent Database.

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