

Appendix table 6-63

USPTO patents granted in bioenergy 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	52	66	70	77	61	59	73	101	103	170	226	367	564
North America	33	44	45	44	36	37	51	69	67	121	164	281	413
Bermuda	0	0	0	0	0	0	0	0	0	0	0	0	0
Canada	4	4	3	2	3	3	7	5	7	9	11	27	16
Mexico	0	0	0	0	0	0	0	0	1	0	0	0	0
United States	29	40	42	42	33	34	44	64	60	112	154	254	397
Central and South America	0	0	0	1	0	2	1	1	0	1	0	4	7
Argentina	0	0	0	0	0	0	0	0	0	0	0	0	1
Brazil	0	0	0	0	0	2	1	1	0	1	0	4	5
All others	0	0	0	1	0	0	0	0	0	0	0	0	2
Europe	17	15	12	20	15	12	14	18	19	28	36	53	86
EU	15	15	11	19	13	11	14	17	18	28	34	50	84
Austria	0	2	1	0	0	0	2	1	0	1	0	0	1
Belgium	0	0	0	0	0	1	0	0	0	0	0	4	4
Denmark	0	2	1	2	0	0	0	1	2	3	2	10	9
Finland	1	3	0	2	2	3	2	3	1	3	5	1	5
France	5	1	2	2	0	1	2	2	1	3	6	6	6
Germany	4	1	2	7	5	3	3	2	5	10	8	11	25
Hungary	0	0	0	0	0	0	0	0	0	0	1	1	2
Ireland	0	0	0	0	0	0	0	0	0	0	0	0	1
Italy	1	1	1	1	0	1	2	1	2	1	4	1	4
Netherlands	0	2	2	1	2	0	0	2	2	1	2	8	6
Spain	0	0	1	1	0	0	0	0	0	1	1	1	1
Sweden	3	1	0	0	2	1	1	1	1	3	0	2	7
United Kingdom	1	2	0	1	2	1	2	4	4	1	4	5	10
All others	0	0	1	2	0	0	0	1	1	1	1	1	4
Other Europe	2	0	1	1	2	1	0	1	1	0	2	3	2
Norway	0	0	0	0	0	0	0	0	0	0	0	0	1
Russia	0	0	0	0	0	0	0	0	0	0	1	2	0
Former Soviet Union	0	0	0	0	0	0	0	0	0	0	0	0	0
Switzerland	2	0	1	1	2	0	0	1	1	0	0	0	1
All others	0	0	0	0	0	1	0	0	0	0	1	1	1
Asia	3	5	13	7	7	6	7	7	12	15	22	24	49
China	0	0	0	0	0	0	0	2	0	2	1	3	8
India	0	0	0	0	0	0	0	0	0	2	1	2	4
Japan	2	4	11	6	5	6	6	4	9	10	12	13	26
Malaysia	0	0	0	0	0	0	0	0	0	0	0	1	2
Singapore	0	0	0	0	0	0	0	0	0	0	0	0	0
South Korea	1	1	1	1	1	0	0	1	0	0	4	2	7
Taiwan	0	0	1	0	1	0	1	1	3	1	4	2	1
All others	0	0	0	0	0	0	0	0	0	1	0	1	1
Middle East	0	1	0	4	2	2	0	4	3	1	2	2	5

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

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

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