

Appendix table 6-61

USPTO patents granted in pollution mitigation technologies, 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	1,719	1,955	2,021	1,858	1,725	1,497	1,549	1,382	1,347	1,448	1,916	1,812	2,064
North America	1,017	1,138	1,141	1,005	913	814	851	741	739	813	1,025	996	1,132
Bermuda	0	0	0	0	0	0	0	0	0	0	0	0	0
Canada	54	77	68	51	51	48	54	42	48	34	58	49	69
Mexico	2	0	3	2	2	1	1	1	3	1	2	3	6
United States	961	1,061	1,070	952	860	765	796	697	687	778	964	945	1,058
Central and South America	5	7	2	4	6	2	1	2	6	4	6	15	10
Argentina	2	1	0	3	0	0	0	0	0	0	0	1	0
Brazil	2	1	1	1	2	1	1	1	2	2	6	8	2
All others	1	5	1	0	4	1	0	1	4	2	0	6	7
Europe	357	407	434	379	311	283	279	284	245	256	395	320	347
EU	328	374	395	362	294	260	258	271	230	233	375	305	333
Austria	7	9	10	6	5	12	9	13	5	5	9	6	7
Belgium	7	5	8	4	7	4	8	4	2	7	10	8	4
Denmark	8	11	12	11	2	5	5	4	9	12	6	11	8
Finland	15	11	13	19	13	5	8	11	7	8	13	4	5
France	42	48	58	42	34	44	28	50	42	46	60	40	46
Germany	166	169	191	176	146	123	122	105	89	99	164	147	152
Hungary	0	0	0	3	0	1	0	0	1	0	3	0	0
Ireland	0	0	0	0	2	0	0	1	1	1	2	1	0
Italy	16	16	13	16	14	10	9	13	12	13	17	12	15
Netherlands	12	30	20	14	13	9	7	9	9	2	20	19	11
Spain	2	1	2	1	3	3	0	2	3	3	4	0	4
Sweden	16	26	29	15	20	16	17	18	18	11	18	14	19
United Kingdom	37	46	35	48	32	24	42	37	30	24	44	36	55
All others	0	3	5	8	5	4	2	4	4	3	8	7	8
Other Europe	29	33	39	17	17	23	21	13	15	23	20	15	14
Norway	4	5	8	5	3	8	6	5	4	5	8	6	4
Russia	0	0	9	6	4	4	4	2	6	4	4	3	2
Former Soviet Union	7	9	0	0	0	0	0	0	0	0	0	0	0
Switzerland	18	17	21	6	8	10	8	4	5	13	7	6	7
All others	0	2	1	0	2	1	3	2	0	1	1	0	1
Asia	317	386	420	446	472	377	400	340	334	355	458	450	535
China	3	2	4	8	7	5	9	11	9	10	13	22	27
India	1	1	2	4	4	5	3	4	4	8	7	8	10
Japan	281	332	351	377	404	317	347	277	271	288	378	354	415
Malaysia	0	0	0	0	2	1	0	1	0	0	0	0	1
Singapore	1	0	1	2	3	3	1	4	2	2	3	2	3
South Korea	17	26	36	28	34	19	23	24	25	30	40	43	55
Taiwan	12	24	25	26	17	25	17	19	23	16	15	18	24
All others	2	1	1	1	1	2	0	0	0	1	2	3	0
Middle East	3	3	8	15	10	5	4	2	7	8	17	11	24

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Region/country/economy	1997	1999	2001	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Israel	3	2	7	14	8	4	4	2	7	6	14	7	12
All others	0	1	2	1	2	1	0	0	0	2	3	5	12
Africa	3	3	8	2	3	2	6	4	5	1	2	2	2
South Africa	3	3	8	2	2	2	5	3	5	0	2	2	2
All others	0	0	0	0	1	0	1	1	0	1	0	0	0
Australia/Oceania	18	12	9	9	13	16	9	9	13	12	14	15	15
Australia	18	11	8	8	13	16	7	9	12	10	10	15	14
New Zealand	0	1	1	1	0	0	2	0	1	2	4	0	1
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: Pollution mitigation technologies include recycling; control of air, solid waste, and water pollution; environmental remediation; cleaner coal; and capture and storage of carbon and other greenhouse gases. 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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