

Patents

List of patents, enhancements, and utility models for environmental protection. The Author and Co-Author is **Prof. Zygmunt Wysocki**.

European patents

No.	Patent number Application number (year of issue)	The name of the patent
1	EP1709364 B1 WO2005PL00001 (2005)	„System for treatment of organic materials for their reduction to inorganic components and method of adjustment organic materials for their reduction to inorganic components“
2	EP 1787015 A1 WO2005PL00055 (2005)	„Flue gas cleaning equipment and exhaust gas cleaning method“
3	EP1906087 B1 EP20070116524 (2007)	„Equipment and method for removal and utilization of coating material and/or use of waste paint“

Polish patents

No.	Patent number (date of grant) Application number (year of filing)	The name of the patent
1	PL 183344 (1976) (1975)	„Electronic temperature controller“
2	PL 203168 (1979) (1978)	„Electronic temperature controller with thermocouple as sensor“
3	- PL 255270 A1 (1985)	„Adsorption-catalytic method of gas cleaning“
4	PL 140627 B1 (1985) PL 244822 A1 (1983)	„Method of catalytic cleaning of gases“
5	PL 139242 B1 (1987) PL 244624 A1 (1983)	„Metoda vyrovnávání teploty v reaktorech pro katalytické dohoření plynů“
6	PL 143752 B1 (1986) PL 253263 A1 (1985)	„Equipment for the catalytic cleaning of industrial waste gases“
7	- PL 256967 A3 (1985)	„Method for the purification of waste gases with removal of sulfur dioxide“
8	PL 146901 B1 (1987) PL 256968 A1 (1985)	„Process for the preparation of a catalyst for the burning of organic impurities in gases“
9	PL 147971 B1 (1987) PL 256969 A1 (1985)	„Method of purifying industrial waste gases by removing sulfur compounds, especially hydrogen sulfide and carbon disulfide“
10	PL 152118 B1 (1987) PL 256971 A1 (1985)	„A process for the production of a platinum catalyst for the oxidation of gaseous SO ₂ to SO ₃ “
11	PL 152152 B1 (1988) PL 263344 A1 (1986)	„Catalytic Reverse Reactor Control Equipment“

12	PL 154647 B1 (1988) PL 263342 A1 (1986)	„Method of air cleaning by removing trace amounts of dirt and air purification equipment removing trace amounts of impurities“
13	PL 160618 B1 (1990) PL 263344 A1 (1986)	„Method of activation of catalysts in processes of combustion of impurities, especially organic, in reverse reactors“
14	PL 152152 B1 (1988) PL 263344 A1 (1986)	„Catalytic Reverse Reactor Control Equipment“
15	(1989) PL 269775 (1987)	„Reverse Catalytic Reactor“
16	(1989) PL 269776 (1987)	„Reverse Catalytic Reactor“
17	- PL 270155 A1 (1988)	„Devices for the flow direction of the gas“
18	PL 156779 B3 (1990) PL 273387 A3 (1988)	„Method of catalytic combustion of compounds, especially organic“
19	PL 154896 B3 (1990) PL274444A3 (1988)	„Equipment for removing organic impurities, in particular ethylene from gases“
20	PL 154894 B1 (1989); PL 271406 A1 (1988)	„Catalytic burner“
21	- PL 271407 A1 (1988)	„Method of catalytic cleaning of gases with removal of organic matter contamination“
22	- PL 275435 (1988)	„Electronic temperature controller“
23	- PL 275948 A1 (1988)	„Electronic Temperature Controller with Thermocouple as Sensor“
24	- PL 270155 A1 (1988)	„Adsorption-catalytic method of gas cleaning“
25	- PL 278975 A1 (1989)	„Method of catalytic cleaning of gases“
26	- PL 287606 A1 (1990)	„Temperature equalization method in catalytic gas burning reactors“
27	PL 164078 B1 (1991) PL 284585 A1 (1990)	„Equipment for the catalytic cleaning of industrial waste gases“
28	PL 164272 B1(1992) PL 287607 A1(1990)	„Method for the purification of waste gases with removal of sulfur dioxide“
29	- PL 300695 (1993)	„Process for the preparation of a catalyst for the burning of organic impurities in gases“
30	- PL 300696 (1993)	„Method of purifying industrial waste gases by removing sulfur compounds, especially hydrogen sulfide and carbon disulfide“
31	- PL 298184 A1 (1993)	„A process for the production of a platinum catalyst for the oxidation of gaseous SO ₂ to SO ₃ “
32	- PL 307204 A1 (1995)	„Catalytic Reverse Reactor Control Equipment“
33	PL 200580 B1 (2003) PL 369475 A1 (2001)	„Method of air cleaning by removing trace amounts of dirt and air purification equipment removing trace amounts of impurities“
34	- PL 364331 A1 (2004)	„Method of activation of catalysts in processes of combustion of impurities, especially organic, in reverse reactors“
35	PL 204946 B1 (2005) PL 366275 A1 (2004)	„Catalytic Reverse Reactor Control Equipment“
36	PL 211551 B3 (2005) PL 368514 A3 (2004)	„Reverse Catalytic Reactor“
37	PL 211235 B1 (2006) PL 369701 A1 (2004)	„Reverse Catalytic Reactor“
38	PL 207331 B1 (2007) PL 376670 A1 (2005)	„Devices for the flow direction of the gas“
39	PL 207916 B1(2010) PL 380644 A1 (2006)	„Method of catalytic combustion of compounds, especially organic“
40	PL 217107 B1 (2014) PL388449 A1 (2009)	„Equipment for removing organic impurities, especially ethylene from gases“
41	PL 215391 B1 (2013) PL 387917 A1 (2009)	„Catalytic burner“

Utility patterns

No.	Utility pattern number (year of grant) Application number (year of notification)	The name of the patent
1	PL 50953 Y1 (1989) PL 95491 U1 (1988)	„Gas flow direction distribution device“
2	PL 52147 Y1 (1990) PL 098091 U1 (1989)	„Reverse Reactor for Catalytic Purification of Gases“
3	- PL91301 U1 (1990)	„Bathtub cover for burning varnish waste“
4	PL 56088 Y1 (2008) PL 106142 U1 (1993)	„Multi-part Reverse Catalytic Reactor“
5	PL 55552 Y1 (1997) PL 105537 U1 (1993)	„Multi-part Reverse Catalytic Reactor“
6	- PL 120238 U1 (2004)	„Filter system and catalytic reactor“
7	PL 65013 Y1 (2010) PL 118199 U1 (2009)	„Multi-way valve“
8	PL 65003 Y1 (2010) PL 118198 U1 (2009)	„Modular adsorber sheath“
9	PL 65490 Y1 (2010) PL 118331 U1 (2009)	„Construction of a regenerative auxiliary combustion chamber“
10	PL 65134 Y1 (2010) PL 118333 U1 (2009)	„Construction of basket adsorber“
11	PL 65491 Y1 (2011) PL 118332 U1 (2009)	„Construction of secondary regenerative auxiliary combustion chamber“