

Symbol	Typ	Titel
F	Sektion	MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING
F28	Klasse	HEAT EXCHANGE IN GENERAL
F28G	Unterkategorie	CLEANING OF INTERNAL OR EXTERNAL SURFACES OF HEAT-EXCHANGE OR HEAT-TRANSFER CONDUITS, e.g. WATER TUBES OF BOILERS (cleaning pipes or tubes in general B08B 9/02; devices or arrangements for removing water, minerals, or sludge from boilers while the boiler is in operation, or which remain in position while the boiler is in operation, or are specifically adapted to boilers without any other utility F22B 37/48; removal or treatment of combustion products or combustion residues F23J ; removing ice from heat-exchange apparatus F28F 17/00)
F28G 1/00	Hauptgruppe	Non-rotary, e.g. reciprocated, appliances (F28G 3/00 takes precedence) [1, 2006.01]
F28G 1/02	1-Punkt Untergruppe	. having brushes (brushes A46B) [1, 2006.01]
F28G 1/04	1-Punkt Untergruppe	. having articulated tools, e.g. assembled in chain manner [1, 2006.01]
F28G 1/06	1-Punkt Untergruppe	. having coiled wire tools, i.e. basket type [1, 2006.01]
F28G 1/08	1-Punkt Untergruppe	. having scrapers, hammers, or cutters, e.g. rigidly mounted [1, 2006.01]
F28G 1/10	2-Punkt Untergruppe	.. resiliently mounted [1, 2006.01]
F28G 1/12	1-Punkt Untergruppe	. Fluid-propelled scrapers, bullets, or like solid bodies [1, 2006.01]
F28G 1/14	1-Punkt Untergruppe	. Pull-through rods [1, 2006.01]
F28G 1/16	1-Punkt Untergruppe	. using jets of fluid for removing debris (F28G 1/12 takes precedence) [1, 2006.01]
F28G 3/00	Hauptgruppe	Rotary appliances [1, 2006.01]
F28G 3/02	1-Punkt Untergruppe	. having abrasive tools [1, 2006.01]
F28G 3/04	1-Punkt Untergruppe	. having brushes (brushes A46B) [1, 2006.01]
F28G 3/06	1-Punkt Untergruppe	. having articulated tools, e.g. assembled in chain manner [1, 2006.01]
F28G 3/08	1-Punkt Untergruppe	. having coiled wire tools, i.e. basket type [1, 2006.01]
F28G 3/10	1-Punkt Untergruppe	. having scrapers, hammers, or cutters, e.g. rigidly mounted [1, 2006.01]
F28G 3/12	2-Punkt Untergruppe	.. resiliently mounted [1, 2006.01]
F28G 3/14	2-Punkt Untergruppe	.. thrown into working position by centrifugal force [1, 2006.01]
F28G 3/16	1-Punkt Untergruppe	. using jets of fluid for removing debris [1, 2006.01]
F28G 5/00	Hauptgruppe	Cleaning by distortion (by vibration F28G 7/00) [1, 2006.01]
F28G 7/00	Hauptgruppe	Cleaning by vibration [1, 2006.01]
F28G 9/00	Hauptgruppe	Cleaning by flushing or washing, e.g. with chemical solvents (appliances using jets of fluid for removing debris F28G 1/16, F28G 3/16) [1, 2006.01]
F28G 11/00	Hauptgruppe	Cleaning by combustion processes, e.g. using squibs, using travelling burners [1, 2006.01]
F28G 13/00	Hauptgruppe	Appliances or processes not covered by groups F28G 1/00-F28G 11/00; Combinations of appliances or processes covered by groups F28G 1/00-F28G 11/00 [1, 2006.01]
F28G 15/00	Hauptgruppe	Details (measuring thickness of deposit G01B) [1, 2006.01]
F28G 15/02	1-Punkt Untergruppe	. Supports for cleaning appliances, e.g. frames [1, 2006.01]
F28G 15/04	1-Punkt Untergruppe	. Feeding or driving arrangements, e.g. power operation [1, 2006.01]
F28G 15/06	2-Punkt Untergruppe	.. Automatic reversing devices [1, 2006.01]

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F28G 15/08	1-Punkt Untergruppe	. Locating position of cleaning appliances within conduits [1, 2006.01]
F28G 15/10	1-Punkt Untergruppe	. Masks for delimiting area to be cleaned [1, 2006.01]