

Symbol	Typ	Titel
F	Sektion	MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING
F22	Klasse	STEAM GENERATION (chemical or physical apparatus for generating gases B01J; chemical generation of gas, e.g. under pressure, Section C; removal of combustion products or residues, e.g. cleaning of the combustion contaminated surfaces of tubes of boilers, F23J; generating combustion products of high pressure or high velocity F23R; water heaters not for steam generation F24H , F28; cleaning of internal or external surfaces of heat-transfer conduits, e.g. water tubes of boilers, F28G)
F22G	Unterklasse	SUPERHEATING OF STEAM (steam-separating arrangements in boilers F22B 37/26)
F22G 1/00	Hauptgruppe	Steam superheating characterised by heating method (exothermal chemical reactions not involving a supply of free oxygen gas, apparatus or devices for using the heat therefrom F24J)
F22G 1/02	1-Punkt Untergruppe	. with heat supply by hot flue gases from the furnace of the steam boiler
F22G 1/04	2-Punkt Untergruppe	. . by diverting flow or hot flue gases to separate superheaters operating in reheating cycle, e.g. for reheating steam between a high-pressure turbine stage and an intermediate turbine stage
F22G 1/06	1-Punkt Untergruppe	. with heat supply predominantly by radiation
F22G 1/08	2-Punkt Untergruppe	. . from heated brickwork or the like
F22G 1/10	1-Punkt Untergruppe	. with provision for superheating by throttling
F22G 1/12	1-Punkt Untergruppe	. by mixing steam with furnace gases or other combustion products
F22G 1/14	1-Punkt Untergruppe	. using heat generated by chemical reactions
F22G 1/16	1-Punkt Untergruppe	. by using a separate heat source independent from heat supply of the steam boiler, e.g. by electricity, by auxiliary combustion of fuel oil
F22G 3/00	Hauptgruppe	Steam superheaters characterised by constructional features; Details or component parts thereof (general aspects of enclosed heat-exchangers F28D)
F22G 5/00	Hauptgruppe	Controlling superheat temperature (control systems for steam boilers F22B; regulating or controlling in general G05)
F22G 5/02	1-Punkt Untergruppe	. Applications of combustion-control devices, e.g. tangential-firing burners, tilting burners
F22G 5/04	1-Punkt Untergruppe	. by regulating flue gas flow, e.g. by proportioning or diverting
F22G 5/06	1-Punkt Untergruppe	. by recirculating flue gases
F22G 5/08	2-Punkt Untergruppe	. . preventing furnace gas backflow through recirculating fan
F22G 5/10	1-Punkt Untergruppe	. by displacing superheater sections
F22G 5/12	1-Punkt Untergruppe	. by tempering the superheated steam, e.g. by injected water sprays (spray-mixers B01F 5/18)
F22G 5/14	2-Punkt Untergruppe	. . by live steam
F22G 5/16	1-Punkt Untergruppe	. by indirectly cooling or heating the superheated steam in auxiliary enclosed heat-exchanger
F22G 5/18	1-Punkt Untergruppe	. by by-passing steam around superheater sections
F22G 5/20	1-Punkt Untergruppe	. by combined controlling procedures
F22G 7/00	Hauptgruppe	Steam superheaters characterised by location, arrangement, or disposition
F22G 7/02	1-Punkt Untergruppe	. in fire tubes
F22G 7/04	1-Punkt Untergruppe	. in jackets around fire tubes

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F22G 7/06	1-Punkt Untergruppe	. in furnace tubes
F22G 7/08	1-Punkt Untergruppe	. in fire-boxes
F22G 7/10	1-Punkt Untergruppe	. in smoke-boxes
F22G 7/12	1-Punkt Untergruppe	. in flues
F22G 7/14	1-Punkt Untergruppe	. in water-tube boilers, e.g. between banks of water tubes