

Symbol	Typ	Titel
F	Sektion	MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING
F23	Klasse	COMBUSTION APPARATUS; COMBUSTION PROCESSES
F23C	Unterklasse	COMBUSTION APPARATUS USING FLUENT FUEL (combustion apparatus for solid fuel only F23B; burners F23D; constructional details of combustion chambers not otherwise provided for F23M; combustion chambers for generating combustion products of high pressure or high velocity F23R)
F23C 1/00	Hauptgruppe	Combustion apparatus for burning two or more kinds of fuel simultaneously or alternatively, at least one kind of fuel being fluent (F23C 10/00 takes precedence ; with after-burning arrangements F23C 9/00 ; one kind being for ignition of the other F23Q) [1, 7]
F23C 1/02	1-Punkt Untergruppe	. lump or liquid fuel
F23C 1/04	1-Punkt Untergruppe	. lump or gaseous fuel
F23C 1/06	1-Punkt Untergruppe	. lump or pulverulent fuel
F23C 1/08	1-Punkt Untergruppe	. liquid or gaseous fuel
F23C 1/10	1-Punkt Untergruppe	. liquid or pulverulent fuel
F23C 1/12	1-Punkt Untergruppe	. gaseous or pulverulent fuel
F23C 3/00	Hauptgruppe	Combustion apparatus characterised by the shape of the combustion chamber (F23C 10/00 takes precedence) [1, 7]
F23C 5/00	Hauptgruppe	Disposition of burners with respect to the combustion chamber or to one another ; Mounting of burners in combustion apparatus (F23C 1/00 , F23C 10/00 , F23C 11/04 take precedence) [1, 7]
F23C 5/02	1-Punkt Untergruppe	. Structural details of mounting
F23C 5/06	2-Punkt Untergruppe	. . Provision for adjustment of burner position during operation
F23C 5/08	1-Punkt Untergruppe	. Disposition of burners
F23C 5/14	2-Punkt Untergruppe	. . to obtain a single flame of concentrated or substantially planar form, e.g. pencil or sheet flame (F23C 5/32 takes precedence) [3]
F23C 5/24	2-Punkt Untergruppe	. . to obtain a loop flame
F23C 5/28	2-Punkt Untergruppe	. . to obtain flames in opposing directions, e.g. impacting flames
F23C 5/32	2-Punkt Untergruppe	. . to obtain rotating flames, i.e. flames moving helically or spirally [3]
F23C 6/00	Hauptgruppe	Combustion apparatus characterised by the combination of two or more combustion chambers (F23C 10/00 takes precedence) [3, 7]
F23C 6/02	1-Punkt Untergruppe	. in parallel arrangement [3]
F23C 6/04	1-Punkt Untergruppe	. in series connection (consuming smoke or fumes in separate combustion apparatus F23G 7/06) [3]
F23C 7/00	Hauptgruppe	Air-supply arrangements (F23C 10/00 takes precedence ; in general F23L) [1, 7]
F23C 7/02	1-Punkt Untergruppe	. Disposition of air supply not passing through burner (to obtain a cyclonic tapering flame when burning pulverulent fuel F23C 5/32)
F23C 7/04	2-Punkt Untergruppe	. . to obtain maximum heat transfer to wall of combustion chamber
F23C 7/06	2-Punkt Untergruppe	. . for heating the incoming air (arrangements of regenerators or recuperators F23L 15/00)
F23C 7/08	3-Punkt Untergruppe	. . . indirectly by a secondary fluid other than the combustion products
F23C 9/00	Hauptgruppe	Combustion apparatus with arrangements for recycling or recirculating combustion products or flue gases (F23C 10/00 takes precedence) [1, 7]

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F23C 9/06	1-Punkt Untergruppe	. for completing combustion [3]
F23C 9/08	1-Punkt Untergruppe	. for reducing temperature in combustion chamber, e.g. for protecting walls of combustion chamber [3]
F23C 10/00	Hauptgruppe	Fluidised bed combustion apparatus [7]
F23C 10/02	1-Punkt Untergruppe	. with means specially adapted for achieving or promoting a circulating movement of particles within the bed or for a recirculation of particles entrained from the bed [7]
F23C 10/04	2-Punkt Untergruppe	. . the particles being circulated to a section, e.g. a heat-exchange section or a return duct, at least partially shielded from the combustion zone, before being reintroduced into the combustion zone [7]
F23C 10/06	3-Punkt Untergruppe	. . . the circulating movement being promoted by inducing differing degrees of fluidisation in different parts of the bed [7]
F23C 10/08	3-Punkt Untergruppe	. . . characterised by the arrangement of separation apparatus, e.g. cyclones, for separating particles from the flue gases [7]
F23C 10/10	4-Punkt Untergruppe	 the separation apparatus being located outside the combustion chamber [7]
F23C 10/12	2-Punkt Untergruppe	. . the particles being circulated exclusively within the combustion zone [7]
F23C 10/14	3-Punkt Untergruppe	. . . the circulating movement being promoted by inducing differing degrees of fluidisation in different parts of the bed [7]
F23C 10/16	1-Punkt Untergruppe	. specially adapted for operation at superatmospheric pressures, e.g. by the arrangement of the combustion chamber and its auxiliary systems inside a pressure vessel [7]
F23C 10/18	1-Punkt Untergruppe	. Details ; Accessories [7]
F23C 10/20	2-Punkt Untergruppe	. . Inlets for fluidisation air, e.g. grids ; Bottoms [7]
F23C 10/22	2-Punkt Untergruppe	. . Fuel feeders specially adapted for fluidised bed combustion apparatus (F23C 10/26 takes precedence) [7]
F23C 10/24	2-Punkt Untergruppe	. . Devices for removal of material from the bed (devices for controlling the level of the bed or the amount of material in the bed F23C 10/30) [7]
F23C 10/26	3-Punkt Untergruppe	. . . combined with devices for partial reintroduction of material into the bed, e.g. after separation of agglomerated parts [7]
F23C 10/28	2-Punkt Untergruppe	. . Control devices specially adapted for fluidised bed combustion apparatus [7]
F23C 10/30	3-Punkt Untergruppe	. . . for controlling the level of the bed or the amount of material in the bed [7]
F23C 10/32	4-Punkt Untergruppe	 by controlling the rate of recirculation of particles separated from the flue gases [7]
F23C 11/00	Hauptgruppe	Combustion apparatus using fluent fuel, not provided for in groups F23C 1/00 to F23C 10/00
F23C 11/02	Gelöscht	(transferred to F23C 10/00)
F23C 11/04	1-Punkt Untergruppe	. Combustion apparatus for producing resonant combustion (for generating combustion products of high pressure or high velocity F23R) [3]
		<u>Indexing scheme associated with group F23C 10/00 , relating to combustion in entrained fluidised beds. The indexing code should be unlinked. [7]</u>
F23C 101/00	Hauptgruppe	Combustion in entrained fluidised beds, i.e. fluidised beds which have no distinct upper surface [7]