

CPC COOPERATIVE PATENT CLASSIFICATION

F MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING (NOTE omitted)

LIGHTING; HEATING

F23 COMBUSTION APPARATUS; COMBUSTION PROCESSES (NOTE omitted)

F23M CASINGS, LININGS, WALLS OR DOORS SPECIALLY ADAPTED FOR COMBUSTION CHAMBERS, e.g. FIREBRIDGES; DEVICES FOR DEFLECTING AIR, FLAMES OR COMBUSTION PRODUCTS IN COMBUSTION CHAMBERS; SAFETY ARRANGEMENTS SPECIALLY ADAPTED FOR COMBUSTION APPARATUS; DETAILS OF COMBUSTION CHAMBERS, NOT OTHERWISE PROVIDED FOR WARNING

{In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.}

3/00	Firebridges	9/10	. Baffles or deflectors formed as tubes, e.g. in water-tube boilers
3/02	. modified for circulation of fluids, e.g. air, steam, water	11/00	Safety arrangements
3/04	. . for delivery of gas, e.g. air, steam	11/02	. Preventing emission of flames or hot gases, or admission of air, through working or charging apertures
3/06	. . . into or towards fire	11/04	. Means for supervising combustion, e.g. windows
3/08	. . . away from fire, e.g. towards smoke outlet	11/042	. . {Viewing ports of windows}
3/10	. . . transversely	11/045	. . {by observing the flame}
3/12	. characterised by shape or construction	11/047	. . {by observing the flue gas (controlling combustion using gas detectors F23N 5/003)}
3/14	. . with apertures for passage of combustion products	20/00	Details of combustion chambers, not otherwise provided for {, e.g. means for storing heat from flames}
3/16	. . built-up in sections, e.g. using bars or blocks	20/005	. {Noise absorbing means}
3/18	. . double; multiple	2700/00	Constructional details of combustion chambers
3/20	. . comprising loose refractory material, wholly or in part	2700/005	. Structures of combustion chambers or smoke ducts
3/22	. movable; adjustable	2700/0053	. . Bricks for combustion chamber walls
5/00	Casings; Linings; Walls	2700/0056	. . Bricks for water tube combustion chamber walls
5/02	. characterised by the shape of the bricks or blocks used	2700/007	. Automatic fire extinguishing devices
5/025	. . {specially adapted for burner openings}	2700/008	. Preventing outwards emission of flames or hot gases
5/04	. Supports for linings	2900/00	Special features of, or arrangements for combustion chambers
5/06	. Crowns or roofs for combustion chambers	2900/05001	. Preventing corrosion by using special lining materials or other techniques
5/08	. Cooling thereof; Tube walls	2900/05002	. Means for accommodate thermal expansion of the wall liner
5/085	. . {using air or other gas as the cooling medium}	2900/05003	. Details of manufacturing specially adapted for combustion chambers
7/00	Doors	2900/05004	. Special materials for walls or lining
7/02	. Frames therefor	2900/05005	. Sealing means between wall tiles or panels
7/04	. Cooling doors or door frames	2900/05021	. Wall blocks adapted for burner openings
9/00	Baffles or deflectors for air or combustion products (baffles or deflectors for air or combustion products structurally associated with burners F23D); Flame shields	2900/09061	. Moving baffles, e.g. rotating baffles, for creating vortices
9/003	. {in flue gas ducts}	2900/09062	. Tube-shaped baffles confining the flame
9/006	. . {Backflow diverters}		
9/02	. in air inlets		
9/04	. with air supply passages in the baffle or shield		
9/06	. in fire-boxes		
9/08	. Helical or twisted baffles or deflectors		

F23M

- 2900/11021 . Means for avoiding accidental fires in rooms where the combustion device is located
- 2900/11041 . Means for observing or monitoring flames using photoelectric devices, e.g. phototransistors
- 2900/13001 . Energy recovery by fuel cells arranged in the combustion plant
- 2900/13002 . Energy recovery by heat storage elements arranged in the combustion chamber
- 2900/13003 . Energy recovery by thermoelectric elements, e.g. by Peltier/Seebeck effect, arranged in the combustion plant
- 2900/13004 . Energy recovery by thermo-photo-voltaic [TPV] elements arranged in the combustion plant