

ECLA EUROPEAN CLASSIFICATION

F23M CONSTRUCTIONAL DETAILS OF COMBUSTION CHAMBERS, NOT OTHERWISE PROVIDED FOR (construction or support of tube walls for steam boilers F22B; generating combustion products of high pressure or high velocity F23R)

F23M3/00 Firebridges (baffles non confining the fire [F23M9/06](#))

- F23M3/02 . modified for circulation of fluids, e.g. air, steam, water
- F23M3/04 . . for delivery of gas, e.g. air, steam
- F23M3/06 . . . into or towards fire
- F23M3/08 . . . away from fire, e.g. towards smoke outlet
- F23M3/10 . . . transversely
- F23M3/12 . characterised by shape or construction ([F23M3/02](#) takes precedence)
- F23M3/14 . . with apertures for passage of combustion products
- F23M3/16 . . built-up in sections, e.g. using bars or blocks
- F23M3/18 . . double; multiple
- F23M3/20 . . comprising loose refractory material, wholly or in part
- F23M3/22 . movable; adjustable

F23M5/00 Casings; Linings; Walls (casings, linings, or walls of heat-treatment chambers of ovens, kilns, or retorts F27D)

- F23M5/02 . characterised by the shape of the bricks or blocks used ([ceramic materials C04B33/00, C04B35/00](#))
- F23M5/02B . . [N: specially adapted for burner openings]
- F23M5/04 . Supports for linings
- F23M5/06 . Crowns or roofs for combustion chambers ([F23M5/02, F23M5/04](#) take precedence)
- F23M5/08 . Cooling thereof; Tube walls
- F23M5/08A . . [N: using air or other gas as the cooling medium]

F23M7/00 Doors specially adapted for combustion chambers (in general E06B; for flues or smoke-boxes [F23J13/08](#))

- F23M7/02 . Frames therefor
- F23M7/04 . Cooling doors or door frames

F23M9/00 Baffles or deflectors for air or combustion products; Flame shields

- F23M9/00B . [N: in flue gas ducts] [N9602]
- F23M9/00B1 . . [N: Backflow diverters] [N9602]
- F23M9/02 . in air inlets
- F23M9/04 . with air-supply passages in the baffle or shield
- F23M9/06 . in fire-boxes
- F23M9/08 . Helical or twisted baffles or deflectors
- F23M9/10 . Baffles or deflectors formed as tubes, e.g. in water-tube boilers ([interconnection of such tubes in boilers for fluid flow F22](#))

- F23M11/00** **Safety arrangements** ([by controlling combustion F23N5/24](#))
- F23M11/02 . Preventing emission of flames or hot gases, or admission of air, through working or charging apertures
- F23M11/04 . Means for supervising combustion, e.g. window ([alarm systems G08B](#))
- F23M11/04B . . [N: Viewing ports of windows]
- F23M11/04C . . [N: by observing the flame]
- F23M11/04D . . [N: by observing the flue gas ([controlling combustion using gas detectors F23N5/00B](#))]

- F23M99/00** **Subject matter not provided for in other groups of this subclass, [N: e.g. heat storage from flames] [N1006]**
- F23M99/00B . [N: Noise absorbing means] [N1006]