

SECTION F — MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING

F23 COMBUSTION APPARATUS; COMBUSTION PROCESSES

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

3/00 Firebridges

- 3/02 • modified for circulation of fluids, e.g. air, steam, water
- 3/04 • • for delivery of gas, e.g. air, steam
- 3/06 • • • into or towards fire
- 3/08 • • • away from fire, e.g. towards smoke outlet
- 3/10 • • • transversely
- 3/12 • characterised by shape or construction (F23M 3/02 takes precedence)
- 3/14 • • with apertures for passage of combustion products
- 3/16 • • built-up in sections, e.g. using bars or blocks
- 3/18 • • double; multiple
- 3/20 • • comprising loose refractory material, wholly or in part
- 3/22 • movable; adjustable

5/00 Casings; Linings; Walls (construction or support of tube walls for steam boilers F22B)

- 5/02 • characterised by the shape of the bricks or blocks used (ceramic materials C04B 33/00, C04B 35/00)
- 5/04 • Supports for linings
- 5/06 • Crowns or roofs for combustion chambers (F23M 5/02, F23M 5/04 take precedence)
- 5/08 • Cooling thereof; Tube walls

7/00 Doors

- 7/02 • Frames therefor
- 7/04 • Cooling doors or door frames

9/00 Baffles or deflectors for air or combustion products (structurally associated with burners F23D); **Flame shields**

- 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
- 9/10 • Baffles or deflectors formed as tubes, e.g. in water-tube boilers (interconnection of such tubes in boilers for fluid flow F22)

11/00 Safety arrangements (structurally associated with burners F23D; for liquid fuel feeding F23K 5/16; involving control of combustion F23N 5/24; structurally associated with igniters F23Q)

- 11/02 • Preventing emission of flames or hot gases, or admission of air, through working or charging apertures
- 11/04 • Means for supervising combustion, e.g. window (alarm systems G08B)

20/00 Details of combustion chambers, not otherwise provided for [2014.01]