# 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 [1, 2006.01]**
3/02 • modified for circulation of fluids, e.g. air, steam, water **[1, 2006.01]**
3/04 • • for delivery of gas, e.g. air, steam **[1, 2006.01]**
3/06 • • • into or towards fire **[1, 2006.01]**
3/08 • • • away from fire, e.g. towards smoke outlet **[1, 2006.01]**
3/10 • • • transversely **[1, 2006.01]**
3/12 • characterised by shape or construction (F23M 3/02 takes precedence) **[1, 2006.01]**
3/14 • • with apertures for passage of combustion products **[1, 2006.01]**
3/16 • • built-up in sections, e.g. using bars or blocks **[1, 2006.01]**
3/18 • • double; multiple **[1, 2006.01]**
3/20 • • comprising loose refractory material, wholly or in part **[1, 2006.01]**
3/22 • movable; adjustable **[1, 2006.01]**

**5/00 Casings; Linings; Walls** (construction or support of tube walls for steam boilers F22B) **[1, 2006.01]**
5/02 • characterised by the shape of the bricks or blocks used (ceramic materials C04B 33/00, C04B 35/00) **[1, 2006.01]**
5/04 • Supports for linings **[1, 2006.01]**
5/06 • Crowns or roofs for combustion chambers (F23M 5/02, F23M 5/04 take precedence) **[1, 2006.01]**
5/08 • Cooling thereof; Tube walls **[1, 2006.01]**

**7/00 Doors [1, 2006.01]**
7/02 • Frames therefor **[1, 2006.01]**
7/04 • Cooling doors or door frames **[1, 2006.01]**

**9/00 Baffles or deflectors for air or combustion products** (structurally associated with burners F23D)**; Flame shields [1, 2006.01]**
9/02 • in air inlets **[1, 2006.01]**
9/04 • with air supply passages in the baffle or shield **[1, 2006.01]**
9/06 • in fire-boxes **[1, 2006.01]**
9/08 • Helical or twisted baffles or deflectors **[1, 2006.01]**
9/10 • Baffles or deflectors formed as tubes, e.g. in water-tube boilers (interconnection of such tubes in boilers for fluid flow F22) **[1, 2006.01]**

**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) **[1, 2006.01]**
11/02 • Preventing emission of flames or hot gases, or admission of air, through working or charging apertures **[1, 2006.01]**
11/04 • Means for supervising combustion, e.g. window (alarm systems G08B) **[1, 2006.01]**

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