

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

### F23 COMBUSTION APPARATUS; COMBUSTION PROCESSES

**F23N REGULATING OR CONTROLLING COMBUSTION** (control devices specially adapted for combustion apparatus in which combustion takes place in a fluidised bed of fuel or other particles F23C 10/28; condition responsive controls for regulating combustion in domestic stoves with open fires for solid fuel F24B 1/187)

#### **1/00 Regulating fuel supply**

- 1/02 • conjointly with air supply
- 1/04 • conjointly with air supply and with draught
- 1/06 • conjointly with draught
- 1/08 • conjointly with another medium, e.g. boiler water
- 1/10 • • and with air supply or draught

#### **3/00 Regulating air supply or draught** (conjointly with fuel supply F23N 1/00)

- 3/02 • Regulating draught by direct pressure operation of single valves or dampers
- 3/04 • by operation of single valves or dampers by temperature-sensitive elements
- 3/06 • by conjoint operation of two or more valves or dampers (F23N 3/08 takes precedence)
- 3/08 • by power-assisted systems

#### **5/00 Systems for controlling combustion** (F23N 1/00, F23N 3/00 take precedence)

- 5/02 • using devices responsive to thermal changes or to thermal expansion of a medium
- 5/04 • • using bimetallic elements
- 5/06 • • using bellows; using diaphragms
- 5/08 • • using light-sensitive elements
- 5/10 • • using thermocouples
- 5/12 • • using ionisation-sensitive elements, i.e. flame rods
- 5/14 • • using thermo-sensitive resistors
- 5/16 • using noise-sensitive detectors
- 5/18 • using detectors sensitive to rate of flow of air or fuel
- 5/20 • with a time programme acting through electrical means, e.g. using time-delay relays
- 5/22 • with a time programme acting through mechanical means, e.g. using cams
- 5/24 • Preventing development of abnormal or undesired conditions, i.e. safety arrangements (F23N 5/02-F23N 5/18 take precedence)
- 5/26 • Details