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, 2006.01]**
1/02 • conjointly with air supply **[1, 2006.01]**
1/04 • conjointly with air supply and with draught **[1, 2006.01]**
1/06 • conjointly with draught **[1, 2006.01]**
1/08 • conjointly with another medium, e.g. boiler water **[1, 2006.01]**
1/10 • • and with air supply or draught **[1, 2006.01]**

3/00 **Regulating air supply or draught** (conjointly with fuel supply F23N 1/00) **[1, 2006.01]**
3/02 • Regulating draught by direct pressure operation of single valves or dampers **[1, 2006.01]**
3/04 • by operation of single valves or dampers by temperature-sensitive elements **[1, 2006.01]**
3/06 • by conjoint operation of two or more valves or dampers (F23N 3/08 takes precedence) **[1, 2006.01]**
3/08 • by power-assisted systems **[1, 2006.01]**

5/00 **Systems for controlling combustion** (F23N 1/00, F23N 3/00 take precedence) **[1, 2006.01]**
5/02 • using devices responsive to thermal changes or to thermal expansion of a medium **[1, 2006.01]**
5/04 • • using bimetallic elements **[1, 2006.01]**
5/06 • • using bellows; using diaphragms **[1, 2006.01]**
5/08 • • using light-sensitive elements **[1, 2006.01]**
5/10 • • using thermocouples **[1, 2006.01]**
5/12 • • using ionisation-sensitive elements, i.e. flame rods **[1, 2006.01]**
5/14 • • using thermo-sensitive resistors **[1, 2006.01]**
5/16 • using noise-sensitive detectors **[1, 2006.01]**
5/18 • using detectors sensitive to rate of flow of air or fuel **[1, 2006.01]**
5/20 • with a time programme acting through electrical means, e.g. using time-delay relays **[1, 2006.01]**
5/22 • with a time programme acting through mechanical means, e.g. using cams **[1, 2006.01]**
5/24 • Preventing development of abnormal or undesired conditions, i.e. safety arrangements (F23N 5/02-F23N 5/18 take precedence) **[1, 2006.01]**
5/26 • Details **[1, 2006.01]**