

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)

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| 1/00 | Regulating fuel supply | 5/02 | • using devices responsive to thermal changes or to thermal expansion of a medium |
| 1/02 | • conjointly with air supply | 5/04 | • • using bimetallic elements |
| 1/04 | • conjointly with air supply and with draught | 5/06 | • • using bellows; using diaphragms |
| 1/06 | • conjointly with draught | 5/08 | • • using light-sensitive elements |
| 1/08 | • conjointly with another medium, e.g. boiler water | 5/10 | • • using thermocouples |
| 1/10 | • • and with air supply or draught | 5/12 | • • using ionisation-sensitive elements, i.e. flame rods |
| 3/00 | Regulating air supply or draught (conjointly with fuel supply F23N 1/00) | 5/14 | • • using thermo-sensitive resistors |
| 3/02 | • Regulating draught by direct pressure operation of single valves or dampers | 5/16 | • using noise-sensitive detectors |
| 3/04 | • by operation of single valves or dampers by temperature-sensitive elements | 5/18 | • using detectors sensitive to rate of flow of air or fuel |
| 3/06 | • by conjoint operation of two or more valves or dampers (F23N 3/08 takes precedence) | 5/20 | • with a time programme acting through electrical means, e.g. using time-delay relays |
| 3/08 | • by power-assisted systems | 5/22 | • with a time programme acting through mechanical means, e.g. using cams |
| 5/00 | Systems for controlling combustion (F23N 1/00, F23N 3/00 take precedence) | 5/24 | • Preventing development of abnormal or undesired conditions, i.e. safety arrangements (F23N 5/02-F23N 5/18 take precedence) |
| | | 5/26 | • Details |