

CPC COOPERATIVE PATENT CLASSIFICATION

F MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING (NOTE omitted)

LIGHTING; HEATING

F24 HEATING; RANGES; VENTILATING (NOTE omitted)

F24B DOMESTIC STOVES OR RANGES FOR SOLID FUELS (for solid fuels in combination with gaseous fuels, liquid fuels or other kinds of energy supply [F24C 1/02](#)); IMPLEMENTS FOR USE IN CONNECTION WITH STOVES OR RANGES

| | | | |
|-------------|---|---------------|--|
| 1/00 | Stoves or ranges | 1/14 | . . . with predistillation in the hopper |
| 1/003 | . {on which a removable cooking element is arranged} | | WARNING |
| 1/006 | . {incorporating a catalytic combustor} | | Group F24B 1/14 is impacted by reclassification into groups F24B 1/04 and F24B 1/06 . |
| 1/02 | . Closed stoves | | Groups F24B 1/14 , F24B 1/04 , and F24B 1/06 should be considered in order to perform a complete search. |
| 1/022 | . . {easily collapsible or easily removable} | | |
| 1/024 | . . {for pulverulent fuels} | | |
| 1/026 | . . {with several combustion zones} | | |
| 1/028 | . . {with means for regulating combustion} | | |
| 1/04 | . . built-up from glazed tiles | 1/16 | . . with fuel storage in multiple or divided hoppers within the stove or range |
| | WARNING | | WARNING |
| | Groups F24B 1/04 and F24B 1/06 are incomplete pending reclassification of documents from groups F24B 1/08 , F24B 1/10 , F24B 1/14 , and F24B 1/16 . | | Group F24B 1/16 is impacted by reclassification into groups F24B 1/04 and F24B 1/06 . |
| | All groups listed in this Warning should be considered in order to perform a complete search. | | Groups F24B 1/16 , F24B 1/04 , and F24B 1/06 should be considered in order to perform a complete search. |
| 1/06 | . . . Construction of tiles or bracing means therefor, e.g. shim liner | 1/18 | . Stoves with open fires, e.g. fireplaces |
| 1/08 | . . with fuel storage in a single undivided hopper within stove or range | 1/1802 | . . {adapted for the use of both solid fuel and another type of fuel or energy supply (for stoves without open fires F24C 1/02)} |
| | WARNING | 1/1804 | . . {Reverse-draught fireplaces} |
| | Group F24B 1/08 is impacted by reclassification into groups F24B 1/04 and F24B 1/06 . | 1/1806 | . . {Mounting of closed stoves in a fireplace} |
| | Groups F24B 1/08 , F24B 1/04 , and F24B 1/06 should be considered in order to perform a complete search. | 1/1808 | . . {Simulated fireplaces} |
| | | 1/181 | . . Free-standing fireplaces, e.g. for mobile homes {; Fireplaces convertible into stoves} |
| | | 1/182 | . . with additional provisions for cooking |
| | | 1/183 | . . with additional provisions for heating water |
| | | 1/185 | . . with air-handling means, heat exchange means, or additional provisions for convection heating (with additional provisions for heating water F24B 1/183 ; component parts or accessories having air-handling means, heat exchange means, or additional provisions for convection heating F24B 1/191); Controlling combustion |
| 1/10 | . . . with combustion in horizontal direction (with predistillation in the hopper F24B 1/14) | 1/187 | . . . Condition responsive controls for regulating combustion |
| | WARNING | 1/1875 | {combined with extinguishing devices} |
| | Group F24B 1/10 is impacted by reclassification into groups F24B 1/04 and F24B 1/06 . | 1/188 | . . . characterised by use of heat exchange means {, e.g. using a particular heat exchange medium, e.g. oil, gas} (condition responsive controls for regulating combustion F24B 1/187) |
| | Groups F24B 1/10 , F24B 1/04 , and F24B 1/06 should be considered in order to perform a complete search. | | |

- 1/1881 {the heat exchange medium being either water or air}
- 1/1883 {the heat exchange medium being both water and air}
- 1/1885 {the heat exchange medium being air only}
- 1/1886 {the heat exchanger comprising only tubular air ducts within the fire}
- 1/1888 {with forced circulation}
- 1/189 . . . characterised by air-handling means, i.e. of combustion-air, heated-air, or flue-gases, e.g. draught control dampers (condition responsive controls for regulating combustion [F24B 1/187](#); by use of heat exchange means [F24B 1/188](#))
- 1/1895 {flue-gas control dampers}
- 1/19 Supplying combustion-air
- 1/1902 {in combination with provisions for heating air only}
- 1/1905 {in combination with provisions for heating water only}
- 1/1907 {in combination with provisions for heating both air and water}
- 1/191 . . Component parts; Accessories

WARNING

Group [F24B 1/191](#) is incomplete pending reclassification of documents from groups [F24B 13/00](#) and [F24B 13/002](#).

Groups [F24B 13/00](#), [F24B 13/002](#), and [F24B 1/191](#) should be considered in order to perform a complete search.

- 1/1915 . . . {Means for removing ash}
- 1/192 . . . Doors; Screens; Fuel guards {(fire-screens [A47G 5/04](#), protective guards [F24C 15/36](#))}
- 1/193 . . . Grates; Irons
- 1/195 . . . Fireboxes; Frames; Hoods; Heat reflectors
- 1/1952 {Multiple fire-boxes}
- 1/1955 {Hoods}
- 1/1957 {Heat reflectors}
- 1/197 . . . Hearths
- 1/198 . . . Surrounds-fronts
- 1/199 . . . Fuel-handling equipment
- 1/20 . . Ranges
- 1/202 . . {specially adapted for travelling}
- 1/205 . . . {collapsible}
- 1/207 . . . {movable}
- 1/22 . . in which the baking oven is arranged above the fire-box
- 1/24 . . with built-in masses for heat storage or heat insulation
- 1/26 . . Stoves with additional provisions for cooking (stoves with open-fires with additional provisions for cooking [F24B 1/182](#))
- 1/28 . . Combined installations of stoves or ranges, e.g. back-to-back stoves with a common fire-box
- 3/00 Heaters not covered by group [F24B 1/00](#), e.g. charcoal braziers**
- 5/00 Combustion-air or flue-gas circulation in or around stoves or ranges (stoves with open fires with air-handling means [F24B 1/185](#))**
- 5/02 . . in or around stoves
- 5/021 . . {combustion-air circulation}
- 5/023 . . . {Supply of primary air for combustion}

- 5/025 . . . {Supply of secondary air for completing combustion of fuel}
- 5/026 . . . {Supply of primary and secondary air for combustion}
- 5/028 . . {Arrangements combining combustion-air and flue-gas circulation}
- 5/04 . . the air or gas passing downwards through the bottom of the stove of fire grate
- 5/06 . . in or around ranges
- 5/08 . . around the baking oven
- 5/082 . . . {several ovens}
- 5/085 . . . {the oven in arranged under the fire-box}
- 5/087 . . . {Regulable circulation}

7/00 Stoves, ranges or flue-gas ducts, with additional provisions for convection heating (stoves with open fires characterised by use of heat exchange means [F24B 1/188](#))

- 7/002 . {Ranges}
- 7/005 . {Flue-gas ducts}
- 7/007 . {Stoves or ranges with additional provisions for heating both air and water}
- 7/02 . with external air ducts
- 7/025 . . {with forced circulation}
- 7/04 . with internal air ducts
- 7/045 . . {with forced circulation}
- 7/06 . without air ducts {no material}

9/00 Stoves, ranges or flue-gas ducts, with additional provisions for heating water (stoves with open fires with additional provisions for cooking [F24B 1/182](#); for heating water [F24B 1/183](#))

- 9/003 . {Ranges}
- 9/006 . {flue-gas ducts}
- 9/02 . in open containers, e.g. bain-marie
- 9/04 . in closed containers

13/00 Details solely applicable to stoves or ranges burning solid fuels (component parts or accessories for stoves with open-fires [F24B 1/191](#))

WARNING

Group [F24B 13/00](#) is impacted by reclassification into group [F24B 1/191](#).

Groups [F24B 13/00](#) and [F24B 1/191](#) should be considered in order to perform a complete search.

- 13/002 . {Surrounds}

WARNING

Group [F24B 13/002](#) is impacted by reclassification into group [F24B 1/191](#).

Groups [F24B 13/002](#) and [F24B 1/191](#) should be considered in order to perform a complete search.

- 13/004 . {Doors specially adapted for stoves or ranges (doors for open fires [F24B 1/192](#))}
- 13/006 . {Arrangements for cleaning, e.g. soot removal; Ash removal}
- 13/008 . . {Ash containers}
- 13/02 . Arrangement or mountings of fire-grate assemblies; Arrangement or mountings of linings for fire-boxes, e.g. fire-backs
- 13/04 . Arrangements for feeding solid fuel, e.g. hoppers

- 15/00** **Implements for use in connection with stoves or ranges**
- 15/002 . {Scratchers or pokers}
- 15/005 . {Igniting devices; Fire-igniting fans}
- 15/007 . {Ash-sifters}
- 15/02 . for breaking coal
- 15/04 . Coal hods; Coal boxes
- 15/06 . Shovels with ejectors
- 15/08 . Shovels with sifters
- 15/10 . Coal tongs