

**CPC****COOPERATIVE PATENT CLASSIFICATION****F24B****DOMESTIC STOVES OR RANGES FOR SOLID FUELS****F24B 1/00****Stoves or ranges**

F24B 1/003

- {on which a removable cooking element is arranged}

F24B 1/006

- {incorporating a catalytic combustor}

F24B 1/02

- Closed stoves

F24B 1/022

- • {easily collapsible or easily removable}

F24B 1/024

- • {for pulverulent fuels}

F24B 1/026

- • {with several combustion zones}

F24B 1/028

- • {with means for regulating combustion}

F24B 1/04

- • built-up from glazed tiles ([F24B 1/08](#), [F24B 1/14](#) take precedence)

F24B 1/06

- • • Construction of tiles and bracing means therefor, e.g. shim liner ([forming of tiles B28B](#); [glazing of tiles C04B](#))

F24B 1/08

- • with fuel storage in a single undivided hopper within stove or range

F24B 1/10

- • • with combustion in horizontal direction ([F24B 1/14](#) takes precedence)

F24B 1/14

- • • with pre-distillation in the hopper

F24B 1/16

- • with fuel storage in multiple or divided hoppers within the stove or range

F24B 1/18

- Stoves with open fires, e.g. fireplaces

F24B 1/1802

- • {adapted for the use of both solid fuel and another type of fuel or energy supply ([for stoves F24C 1/02](#))}

F24B 1/1804

- • {Reverse-draught fireplaces}

F24B 1/1806

- • {Mounting of closed stoves in a fireplace}

F24B 1/1808

- • {Simulated fireplaces}

F24B 1/181

- • Free-standing fireplaces, e.g. for mobile homes; {Fireplaces convertible into stoves}

F24B 1/182

- • with additional provisions for cooking ([other stoves with additional provisions for cooking F24B 1/26](#))

F24B 1/183

- • with additional provisions for heating water

F24B 1/185

- • with air-handling means, heat exchange means, or additional provisions for convection heating ([F24B 1/183](#) takes precedence; [component parts or accessories having air-handling means, heat exchange means, or additional provisions for convection heating F24B 1/191](#)); Regulating combustion; Controls therefor

F24B 1/187

- • • Condition responsive controls for regulating combustion ([valves or dampers for air supply F23L](#); [regulating or controlling combustion F23N](#); [controlling or regulating in general G05](#))

F24B 1/1875

- • • • {combined with extinguishing devices}

F24B 1/188

- • • characterised by use of heat exchange means, {e.g. using a particular heat exchange medium, e.g. oil, gas} ([F24B 1/187](#) takes precedence)

F24B 1/1881

- • • • {the heat exchange medium being either water or air}

F24B 1/1883

- • • • {the heat exchange medium being both water and air}

- F24B 1/1885 . . . . {the heat exchange medium being air only}
- F24B 1/1886 . . . . . {the heat exchanger comprising only tubular air ducts within the fire}
- F24B 1/1888 . . . . . {with forced circulation}
- F24B 1/189 . . . characterised by air-handling means, i.e. of combustion-air, heated-air, or flue-gases, e.g. draught control dampers ([F24B 1/187](#), [F24B 1/188](#) take precedence)
- F24B 1/1895 . . . . {flue-gas control dampers}
- F24B 1/19 . . . . Supplying combustion-air
- F24B 1/1902 . . . . . {in combination with provisions for heating air only}
- F24B 1/1905 . . . . . {in combination with provisions for heating water only}
- F24B 1/1907 . . . . . {in combination with provisions for heating both air and water}
- F24B 1/191 . . Component parts; Accessories
- F24B 1/1915 . . . {Means for removing ash}
- F24B 1/192 . . . Doors; Screens; Fuel guards {(fire-screens [A47G 5/04](#), protective guards [F24C 15/36](#))}
- F24B 1/193 . . . Grates; Irons
- F24B 1/195 . . . Fireboxes; Frames; Hoods; heat reflectors
- F24B 1/1952 . . . . {Multiple fire-boxes}
- F24B 1/1955 . . . . {Hoods}
- F24B 1/1957 . . . . {Heat reflectors}
- F24B 1/197 . . . Hearths
- F24B 1/198 . . . Surrounds-fronts
- F24B 1/199 . . . Fuel-handling equipment
- F24B 1/20 . . Ranges
- F24B 1/202 . . {specially adapted for travelling}
- F24B 1/205 . . . {collapsible}
- F24B 1/207 . . . {movable}
- F24B 1/22 . . in which the baking oven is arranged above the fire-box
- F24B 1/24 . . with built-in masses for heat storage or heat insulation
- F24B 1/26 . . Stoves with additional provisions for cooking (stoves with open-fires with additional provisions for cooking [F24B 1/182](#))
- F24B 1/28 . . Combined installations of stoves or ranges, e.g. back-to-back stoves with a common fire-box
  
- F24B 3/00** **Heaters not covered by group [F24B 1/00](#), e.g. charcoal brazier (for cooking [A47J 27/00](#) to [A47J 37/00](#))**
  
- F24B 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](#))**
- F24B 5/02 . . in or around stoves
- F24B 5/021 . . {combustion-air circulation (regulating combustion [F23N](#); air supply for combustion apparatus [F23L](#))}

- F24B 5/023 . . . {Supply of primary air for combustion}
- F24B 5/025 . . . {Supply of secondary air for completing combustion of fuel}
- F24B 5/026 . . . {Supply of primary and secondary air for combustion}
- F24B 5/028 . . {Arrangements combining combustion-air and flue-gas circulation}
- F24B 5/04 . . the air or gas passing downwards through the bottom of the stove of fire grate
- F24B 5/06 . in or around ranges
- F24B 5/08 . . around the baking oven
- F24B 5/082 . . . {several ovens}
- F24B 5/085 . . . {the oven in arranged under the fire-box}
- F24B 5/087 . . . {Regulable circulation}

**F24B 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 1/185](#); air heaters having heat generating means [F24H 3/00](#))

- F24B 7/002 . {Ranges}
- F24B 7/005 . {Flue-gas ducts}
- F24B 7/007 . {Stoves or ranges with additional provisions for heating both air and water}
- F24B 7/02 . with external air ducts
- F24B 7/025 . . {with forced circulation}
- F24B 7/04 . with internal air ducts
- F24B 7/045 . . {with forced circulation}
- F24B 7/06 . without air ducts {no material}

**F24B 9/00** **Stoves, ranges or flue-gas ducts, with additional provisions for heating water** ([F24B 1/182](#), [F24B 1/183](#) take precedence)

- F24B 9/003 . {Ranges}
- F24B 9/006 . {flue-gas ducts}
- F24B 9/02 . in open containers, e.g. bain-marie
- F24B 9/04 . in closed containers

**F24B 13/00** **Details solely applicable to stoves or ranges burning solid fuels** (component parts or accessories for stoves with open-fires [F24B 1/191](#); removing ash, clinker or slag from combustion chambers [F23J 1/00](#); removing solid residues from passages or chambers beyond the fire [F23J 3/00](#); joints or connections for chimneys or flues [F23J 13/04](#); mouths or inlet holes for chimneys or flues [F23J 13/06](#); means for supervising combustion [F23M 11/04](#))

- F24B 13/002 . {Surrounds}
- F24B 13/004 . {Doors specially adapted for stoves or ranges (doors for open fires [F24B 1/192](#))}
- F24B 13/006 . {Arrangements for cleaning, e.g. soot removal; Ash removal}
- F24B 13/008 . . {Ash containers}

- F24B 13/02
  - Arrangement or mountings of fire-grate assemblies ([grates F23H](#)); Arrangement or mountings of linings for fire-boxes, e.g. fire-back ([ceramic materials C04B 33/00](#), [C04B 35/00](#); casings, linings, walls for combustion chambers [F23M](#))
- F24B 13/04
  - Arrangements for feeding solid fuel, e.g. hoppers ([feeding solid fuel to combustion apparatus in general F23K](#))
- F24B 15/00**
  - Implements for use in connection with stoves or ranges** ([ash sieves {in general} B07B](#); [fire lighters C10L 11/00](#); [removal of ashes F23J](#); other devices for igniting [F23Q](#))
- F24B 15/002
  - {[Scratchers or pokers](#)}
- F24B 15/005
  - {[Igniting devices](#); [Fire-igniting fans](#) ([bellows F04B 45/02](#); [gas pokers F23Q 13/02](#))}
- F24B 15/007
  - {[Ash-sifters](#)}
- F24B 15/02
  - for breaking coal
- F24B 15/04
  - Coal hods; Coal boxes
- F24B 15/06
  - Shovels with ejectors
- F24B 15/08
  - Shovels with sifters
- F24B 15/10
  - Coal tongs