

**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 . . . . [N. 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