

CPC**COOPERATIVE PATENT CLASSIFICATION****F24B****DOMESTIC STOVES OR RANGES FOR SOLID FUELS****Guidance heading:****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