

# CPC COOPERATIVE PATENT CLASSIFICATION

## F24B DOMESTIC STOVES OR RANGES FOR SOLID FUELS

- 1/00** Stoves or ranges
- 1/003 . {on which a removable cooking element is arranged}
- 1/006 . {incorporating a catalytic combustor}
- 1/02 . Closed stoves
- 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 ([F24B 1/08](#), [F24B 1/14](#) take precedence)
- 1/06 . . . Construction of tiles and bracing means therefor, e.g. shim liner ([forming of tiles B28B](#); [glazing of tiles C04B](#))
- 1/08 . . with fuel storage in a single undivided hopper within stove or range
- 1/10 . . . with combustion in horizontal direction ([F24B 1/14](#) takes precedence)
- 1/14 . . . with pre-distillation in the hopper
- 1/16 . . with fuel storage in multiple or divided hoppers within the stove or range
- 1/18 . Stoves with open fires, e.g. fireplaces
- 1/1802 . . {adapted for the use of both solid fuel and another type of fuel or energy supply ([for stoves F24C 1/02](#))}
- 1/1804 . . {Reverse-draught fireplaces}
- 1/1806 . . {Mounting of closed stoves in a fireplace}
- 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 ([other stoves with additional provisions for cooking F24B 1/26](#))
- 1/183 . . with additional provisions for heating water
- 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](#)); Controlling combustion
- 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](#))
- 1/1875 . . . . {combined with extinguishing devices}
- 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)
- 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 ([F24B 1/187](#), [F24B 1/188](#) take precedence)
- 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
- 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 brazier ([for cooking A47J 27/00 - A47J 37/00](#))
- 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 ([regulating combustion F23N](#); [air supply for combustion apparatus F23L](#))}
- 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 or 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 1/185](#); air heaters having heat generating means [F24H 3/00](#))
  - 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** ([F24B 1/182](#), [F24B 1/183](#) take precedence)
  - 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](#); 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](#))
  - 13/002 . {Surrounds}
  - 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 (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](#))
  - 13/04 . Arrangements for feeding solid fuel, e.g. hoppers (feeding solid fuel to combustion apparatus in general [F23K](#))
- 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](#))
  - 15/002 . {Scratchers or pokers}
  - 15/005 . {Igniting devices; Fire-igniting fans (bellows [F04B 45/02](#); gas pokers [F23Q 13/02](#))}
  - 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