

# 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	<b>Stoves or ranges</b>	1/1881	. . . . {the heat exchange medium being either water or air}
1/003	. {on which a removable cooking element is arranged}	1/1883	. . . . {the heat exchange medium being both water and air}
1/006	. {incorporating a catalytic combustor}	1/1885	. . . . {the heat exchange medium being air only}
1/02	. Closed stoves	1/1886	. . . . {the heat exchanger comprising only tubular air ducts within the fire}
1/022	. . {easily collapsible or easily removable}	1/1888	. . . . {with forced circulation}
1/024	. . {for pulverulent fuels}	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 <a href="#">F24B 1/187</a> ; by use of heat exchange means <a href="#">F24B 1/188</a> )
1/026	. . {with several combustion zones}	1/1895	. . . . {flue-gas control dampers}
1/028	. . {with means for regulating combustion}	1/19	. . . . Supplying combustion-air
1/04	. . built-up from glazed tiles	1/1902	. . . . {in combination with provisions for heating air only}
1/06	. . . Construction of tiles or bracing means therefor, e.g. shim liner	1/1905	. . . . {in combination with provisions for heating water only}
1/08	. . with fuel storage in a single undivided hopper within stove or range	1/1907	. . . . {in combination with provisions for heating both air and water}
1/10	. . . with combustion in horizontal direction (with predistillation in the hopper <a href="#">F24B 1/14</a> )	1/191	. . Component parts; Accessories
1/14	. . . with predistillation in the hopper	1/1915	. . . {Means for removing ash}
1/16	. . with fuel storage in multiple or divided hoppers within the stove or range	1/192	. . . Doors; Screens; Fuel guards {(fire-screens <a href="#">A47G 5/04</a> , protective guards <a href="#">F24C 15/36</a> )}
1/18	. Stoves with open fires, e.g. fireplaces	1/193	. . . Grates; Irons
1/1802	. . {adapted for the use of both solid fuel and another type of fuel or energy supply (for stoves without open fires <a href="#">F24C 1/02</a> )}	1/195	. . . Fireboxes; Frames; Hoods; Heat reflectors
1/1804	. . {Reverse-draught fireplaces}	1/1952	. . . . {Multiple fire-boxes}
1/1806	. . {Mounting of closed stoves in a fireplace}	1/1955	. . . . {Hoods}
1/1808	. . {Simulated fireplaces}	1/1957	. . . . {Heat reflectors}
1/181	. . Free-standing fireplaces, e.g. for mobile homes {; Fireplaces convertible into stoves}	1/197	. . . Hearths
1/182	. . with additional provisions for cooking	1/198	. . . Surrounds-fronts
1/183	. . with additional provisions for heating water	1/199	. . . Fuel-handling equipment
1/185	. . with air-handling means, heat exchange means, or additional provisions for convection heating (with additional provisions for heating water <a href="#">F24B 1/183</a> ; component parts or accessories having air-handling means, heat exchange means, or additional provisions for convection heating <a href="#">F24B 1/191</a> ); Controlling combustion	1/20	. Ranges
1/187	. . . Condition responsive controls for regulating combustion	1/202	. . {specially adapted for travelling}
1/1875	. . . . {combined with extinguishing devices}	1/205	. . . {collapsible}
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 <a href="#">F24B 1/187</a> )	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 <a href="#">F24B 1/182</a> )

## F24B

- 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 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 1/188](#))**
  - 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](#))**
  - 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; 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