

# 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

<b>1/00</b>	<b>Stoves or ranges</b>	<b>1/14</b>	. . . with predistillation in the hopper
1/003	. {on which a removable cooking element is arranged}		<b>WARNING</b>
1/006	. {incorporating a catalytic combustor}		Group <a href="#">F24B 1/14</a> is impacted by reclassification into groups <a href="#">F24B 1/04</a> and <a href="#">F24B 1/06</a> .
1/02	. Closed stoves		Groups <a href="#">F24B 1/14</a> , <a href="#">F24B 1/04</a> , and <a href="#">F24B 1/06</a> should be considered in order to perform a complete search.
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	<b>1/16</b>	. . with fuel storage in multiple or divided hoppers within the stove or range
	<b>WARNING</b>		<b>WARNING</b>
	Groups <a href="#">F24B 1/04</a> and <a href="#">F24B 1/06</a> are incomplete pending reclassification of documents from groups <a href="#">F24B 1/08</a> , <a href="#">F24B 1/10</a> , <a href="#">F24B 1/14</a> , and <a href="#">F24B 1/16</a> .		Group <a href="#">F24B 1/16</a> is impacted by reclassification into groups <a href="#">F24B 1/04</a> and <a href="#">F24B 1/06</a> .
	All groups listed in this Warning should be considered in order to perform a complete search.		Groups <a href="#">F24B 1/16</a> , <a href="#">F24B 1/04</a> , and <a href="#">F24B 1/06</a> should be considered in order to perform a complete search.
1/06	. . . Construction of tiles or bracing means therefor, e.g. shim liner	<b>1/18</b>	. Stoves with open fires, e.g. fireplaces
1/08	. . with fuel storage in a single undivided hopper within stove or range	<b>1/1802</b>	. . {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> )}
	<b>WARNING</b>	<b>1/1804</b>	. . {Reverse-draught fireplaces}
	Group <a href="#">F24B 1/08</a> is impacted by reclassification into groups <a href="#">F24B 1/04</a> and <a href="#">F24B 1/06</a> .	<b>1/1806</b>	. . {Mounting of closed stoves in a fireplace}
	Groups <a href="#">F24B 1/08</a> , <a href="#">F24B 1/04</a> , and <a href="#">F24B 1/06</a> should be considered in order to perform a complete search.	<b>1/1808</b>	. . {Simulated fireplaces}
		<b>1/181</b>	. . Free-standing fireplaces, e.g. for mobile homes {; Fireplaces convertible into stoves}
		<b>1/182</b>	. . with additional provisions for cooking
		<b>1/183</b>	. . with additional provisions for heating water
		<b>1/185</b>	. . 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
<b>1/10</b>	. . . with combustion in horizontal direction (with predistillation in the hopper <a href="#">F24B 1/14</a> )	<b>1/187</b>	. . . Condition responsive controls for regulating combustion
	<b>WARNING</b>	<b>1/1875</b>	. . . . {combined with extinguishing devices}
	Group <a href="#">F24B 1/10</a> is impacted by reclassification into groups <a href="#">F24B 1/04</a> and <a href="#">F24B 1/06</a> .	<b>1/188</b>	. . . 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> )
	Groups <a href="#">F24B 1/10</a> , <a href="#">F24B 1/04</a> , and <a href="#">F24B 1/06</a> should be considered in order to perform a complete search.		

- 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 (condition responsive controls for regulating combustion [F24B 1/187](#); by use of heat exchange means [F24B 1/188](#))
- 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

**WARNING**

Group [F24B 1/191](#) is incomplete pending reclassification of documents from groups [F24B 13/00](#) and [F24B 13/002](#).

Groups [F24B 13/00](#), [F24B 13/002](#), and [F24B 1/191](#) should be considered in order to perform a complete search.

- 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 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 of 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](#))**

**WARNING**

Group [F24B 13/00](#) is impacted by reclassification into group [F24B 1/191](#).

Groups [F24B 13/00](#) and [F24B 1/191](#) should be considered in order to perform a complete search.

- 13/002 . {Surrounds}

**WARNING**

Group [F24B 13/002](#) is impacted by reclassification into group [F24B 1/191](#).

Groups [F24B 13/002](#) and [F24B 1/191](#) should be considered in order to perform a complete search.

- 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