

CPC COOPERATIVE PATENT CLASSIFICATION

F MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING (NOTE omitted)

LIGHTING; HEATING

F24 HEATING; RANGES; VENTILATING (protecting plants by heating in gardens, orchards, or forests [A01G 13/06](#); baking ovens and apparatus [A21B](#); cooking devices other than ranges [A47J](#); forging [B21J](#), [B21K](#); specially adapted for vehicles, see the relevant subclasses of [B60](#) - [B64](#); combustion apparatus in general [F23](#); drying [F26B](#); ovens in general [F27](#); electric heating elements and arrangements [H05B](#))
(NOTE omitted)

F24C OTHER DOMESTIC STOVES OR RANGES; DETAILS OF DOMESTIC STOVES OR RANGES, OF GENERAL APPLICATION (radiator stoves of the fluid-circulating type [F24H](#))

WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

- | | | | |
|-------------|---|-------------|--|
| 1/00 | Stoves or ranges in which the fuel or energy supply is not restricted to solid fuel or to a type covered by a single one of the following groups F24C 3/00 - F24C 9/00 ; Stoves or ranges in which the type of fuel or energy supply is not specified | 3/042 | . . {Stoves} |
| | | 3/045 | . . . {of the closed type} |
| | | 3/047 | . . {Ranges} |
| | | 3/06 | . . without any visible flame |
| 1/02 | . adapted for the use of two or more kinds of fuel or energy supply (F24C 1/16 takes precedence; combinations of two or more stoves or ranges each having a different kind of fuel or energy supply F24C 11/00) | 3/062 | . . . {stoves} |
| | | 3/065 | {of the closed type} |
| | | 3/067 | . . . {Ranges} |
| | | 3/08 | . Arrangement or mounting of burners (burners per se F23D) |
| 1/04 | . . simultaneously | 3/082 | . . {on stoves} |
| 1/06 | . . by replacing parts, e.g. replacing burner by electric heater | 3/085 | . . {on ranges} |
| | | 3/087 | . . . {in baking ovens} |
| 1/08 | . solely adapted for radiation heating (F24C 1/16 takes precedence) | 3/10 | . Arrangement or mounting of ignition devices (ignition devices per se F23Q) |
| 1/10 | . . with reflectors | 3/103 | . . {of electric ignition devices} |
| 1/12 | . . . of circular shape | 3/106 | . . {of flash tubes} |
| 1/14 | . Radiation heating stoves and ranges with additional provision for convection heating (F24C 1/02 , F24C 1/16 take precedence; solely adapted for convection heating F24H) | 3/12 | . Arrangement for mounting of control and safety devices (control valves F16K ; safety devices for burners F23D ; regulating or controlling combustion F23N) |
| 1/16 | . with special adaptation for travelling, e.g. collapsible | 3/122 | . . {on stoves} |
| | | 3/124 | . . {Control panels} |
| 3/00 | Stoves and ranges for gaseous fuels | 3/126 | . . {on ranges} |
| 3/002 | . {Stoves} | 3/128 | . . . {in baking ovens} |
| 3/004 | . . {of the closed type} | 3/14 | . with special adaptation for travelling, e.g. collapsible |
| 3/006 | . . {simulating flames} | 5/00 | Stoves and ranges for liquid fuels |
| 3/008 | . {Ranges} | 5/02 | . with evaporation burners, e.g. dish type (F24C 5/20 takes precedence) |
| 3/02 | . with heat produced solely by flame (F24C 3/14 takes precedence) | 5/04 | . . wick type |
| 3/022 | . . {Stoves} | 5/06 | . . . adjustable |
| 3/025 | . . . {of the closed type} | 5/08 | . . with heat produced wholly or partly by a radiant body |
| 3/027 | . . {Ranges} | 5/10 | . with atomising burners (F24C 5/20 takes precedence) |
| 3/04 | . with heat produced wholly or partly by a radiant body, e.g. by a perforated plate (F24C 3/14 takes precedence) | | |

- 5/12 . Arrangement or mounting of burners ([burners per se F23D](#))
- 5/14 . Arrangement or mounting of ignition devices ([ignition devices per se F23Q](#))
- 5/16 . Arrangement and mounting of control and safety devices ([control valves F16K](#); [safety devices for burners F23D](#); [regulating or controlling combustion F23N](#))
- 5/18 . Liquid-fuel supply arrangements forming parts of stoves or ranges ([feeding liquid fuel to combustion apparatus in general F23K](#))
- 5/20 . with special adaptation for travelling, e.g. collapsible

7/00 Stoves or ranges heated by electrical energy
([electric heating elements or arrangements H05B](#))

- 7/002 . {[Stoves \(F24C 7/02 - F24C 7/10 take precedence\)](#)}
- 7/004 . . {[simulating flames](#)}
- 7/006 . {[using electrically heated liquids](#)}
- 7/008 . . {[using electrode heaters](#)}
- 7/02 . [using microwaves \(heating using microwaves in general H05B 6/64\)](#)
- 7/04 . [with heat radiated directly from the heating element \(F24C 7/10 takes precedence\)](#)
- 7/043 . . {[Stoves](#)}
- 7/046 . . {[Ranges](#)}

WARNING

Group [F24C 7/046](#) is not complete, pending reorganisation. See also [F24C 7/04](#)

- 7/06 . Arrangement or mounting of electric heating elements
- 7/062 . . {[on stoves](#)}
- 7/065 . . . {[with reflectors \(reflectors per se F24C 15/22\)](#)}
- 7/067 . . {[on ranges](#)}

WARNING

Group [F24C 7/067](#) is not complete, pending reorganisation. See also [F24C 7/06](#)

- 7/08 . Arrangement or mounting of control or safety devices ([switches H01H](#); [circuit arrangements for electric heating H05B](#))
- 7/081 . . {[on stoves](#)}
- 7/082 . . {[on ranges, e.g. control panels, illumination](#)}
- 7/083 . . . {[on tops, hot plates](#)}

WARNING

Groups [F24C 7/083](#), [F24C 7/085](#), [F24C 7/086](#) are not complete, pending reclassification. See also [F24C 7/082](#)

- 7/085 . . . {[on baking ovens](#)}
- 7/086 . . . {[touch control](#)}
- 7/087 . . {[of electric circuits regulating heat](#)}
- 7/088 . . . {[on stoves](#)}
- 7/10 . [with special adaptation for travelling, e.g. collapsible](#)
- 7/105 . . {[Stoves](#)}

9/00

Stoves or ranges heated by a single type of energy supply not covered by groups [F24C 3/00](#) - [F24C 7/00](#) or [F24B](#) (using the heat from an exothermal reaction not involving a supply of free oxygen gas, {using special gaseous fuel, e.g. acetylene, hydrogen,} using solar energy [F24S 20/30](#); using the heat from an exothermal reaction not involving a supply of free oxygen gas [F24V 30/00](#))

11/00

Combinations of two or more stoves or ranges, e.g. each having a different kind of energy supply

13/00

Stoves or ranges with additional provisions for heating water ([mounting arrangements of water heaters or water-heating elements F24H 1/00](#))

14/00

Stoves or ranges having self-cleaning provisions, e.g. continuous or catalytic cleaning, electrostatic cleaning

14/005

. {[using a cleaning liquid](#)}

14/02

. [pyrolytic type](#)

14/025

. . {[for gaseous fuels](#)}

15/00

Details

15/001

. {[arrangements for discharging combustion gases](#)}

15/002

. . {[for stoves of the closed type](#)}

15/003

. {[moisturising of air](#)}

15/004

. {[Windows not in a door](#)}

15/005

. {[Coatings for ovens](#)}

15/006

. {[Arrangements for circulation of cooling air](#)}

15/007

. {[Removable panels](#)}

15/008

. {[Illumination for oven cavities](#)}

15/02

. [Doors specially adapted for stoves or ranges \(in general E06B; for combustion chambers F23M\)](#)

15/021

. . {[sealings for doors or transparent panels \(sealings for wings in general E06B 7/16\)](#)}

15/022

. . {[Latches \(in general E05C\)](#)}

15/023

. . . {[Mounting of doors, e.g. hinges, counterbalancing \(in general E05D, E05F\)](#)}

15/024

. . . {[Handles \(in general E05B\)](#)}

15/025

. . {[with air curtain closures](#)}

15/026

. . {[stowing of door in open position](#)}

15/027

. . {[located at bottom side of housing](#)}

15/028

. . {[Stoves doors](#)}

15/04

. . [with transparent panels](#)

15/045

. . . {[being dismountable, e.g. giving access for cleaning](#)}

15/06

. [Ornamental features, e.g. grate front, surround](#)

15/08

. [Foundations or supports plates; Legs or pillars; Casings; Wheels \(F24C 15/10 takes precedence\)](#)

15/083

. . {[Anti-tip arrangements](#)}

15/086

. . {[Adjustable legs or pillars](#)}

15/10

. [Tops, e.g. hot plate; Rings \(F24C 15/12, F24C 15/14 take precedence\)](#)

15/101

. . {[provisions for circulation of air](#)}

15/102

. . {[electrically heated](#)}

15/103

. . . {[being movable or rotatable](#)}

15/104

. . . {[Arrangements of connectors, grounding, supply wires](#)}

15/105

. . . {[Constructive details concerning the regulation of the temperature](#)}

15/106

. . . {[electric circuits](#)}

15/107

. . {[Pan supports or grates therefor](#)}

15/108

. . {[Mounting of hot plate on worktop](#)}

- 15/12 . Side rests; Side plates; Cover lids; Splash guards;
Racks outside ovens, e.g. for drying plates
- 15/14 . Spillage trays or grooves
- 15/16 . Shelves, racks, {rotisserie spits,} or trays inside
ovens; Supports therefor
- 15/162 . . {Co-operating with a door, e.g. operated by the
door}
- 15/164 . . {Rotisserie spits inside ovens}
- 15/166 . . {with integrated heating means}
- 15/168 . . {with telescopic rail systems}
- 15/18 . Arrangement of compartments additional to cooking
compartments, e.g. for warming, for storing utensils
or fuel containers; Arrangements of additional
heating or cooking apparatus, e.g. grills {additional
cooking arrangements on stoves}
- 15/20 . Removing cooking fumes (parts, details or
accessories of cooking-vessels for withdrawing
or condensing cooking vapours from such vessels
[A47J 36/38](#))
- 15/2007 . . {from oven cavities}
- 15/2014 . . . {with means for oxidation of cooking fumes}
- 15/2021 . . {Arrangement or mounting of control or safety
systems}
- 15/2028 . . {using an air curtain}
- 15/2035 . . {Arrangement or mounting of filters
[\(F24C 15/2021 takes precedence; filters per se
B01D 46/00\)](#)}
- 15/2042 . . {Devices for removing cooking fumes
structurally associated with a cooking range
[\(F24C 15/2007 takes precedence\)](#)}
- 15/205 . . . {with means for oxidation of cooking fumes}
- 15/2057 . . {using a cleaning liquid}
- 15/2064 . . {illumination for cooking hood}
- 15/2071 . . {mounting of cooking hood}
- 15/2078 . . {movable}
- 15/2085 . . . {adjustable in height}
- 15/2092 . . . {extendable or pivotable}
- 15/22 . Reflectors for radiation heaters
- 15/24 . Radiant bodies or panels for radiation heaters
[\(gas burners for producing infra-red radiation
F23D 14/12\)](#)
- 15/26 . Handles for carrying
- 15/28 . Draught shields
- 15/30 . Arrangements for mounting stoves or ranges in
particular locations
- 15/32 . Arrangements of ducts for hot gases, e.g. in or
around baking ovens
- 15/322 . . {with forced circulation}
- 15/325 . . . {electrically-heated}
- 15/327 . . . {with air moisturising}
- 15/34 . Elements and arrangements for heat storage or
insulation
- 15/36 . Protective guards, e.g. for preventing access to
heated parts