

# 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](#))

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

- 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, {roastisserie spits,} or trays inside ovens; Supports therefor
- 15/162 . . {Co-operating with a door, e.g. operated by the door}
- 15/164 . . {Roastisserie spits inside ovens}
- 15/166 . . {with integrated heating means}
- 15/168 . . {with telescopic rail systems}

## F24C

- 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