

CPC**COOPERATIVE PATENT CLASSIFICATION****F24B****DOMESTIC STOVES OR RANGES FOR SOLID FUELS****F24B 1/00****Stoves or ranges**

- F24B 1/003 . {on which a removable cooking element is arranged}
- F24B 1/006 . {incorporating a catalytic combustor}
- F24B 1/02 . Closed stoves
 - F24B 1/022 . . {easily collapsible or easily removable}
 - F24B 1/024 . . {for pulverulent fuels}
 - F24B 1/026 . . {with several combustion zones}
 - F24B 1/028 . . {with means for regulating combustion}
 - F24B 1/04 . . built-up from glazed tiles(F24B 1/08 , F24B 1/14 take precedence)
 - F24B 1/06 . . . Construction of tiles and bracing means therefor, e.g. shim liner(forming of tiles B28B ; glazing of tiles C04B)
 - F24B 1/08 . . with fuel storage in a single undivided hopper within stove or range
 - F24B 1/10 . . . with combustion in horizontal direction(F24B 1/14 takes precedence)
 - F24B 1/14 . . . with pre-distillation in the hopper
 - F24B 1/16 . . with fuel storage in multiple or divided hoppers within the stove or range
- F24B 1/18 . Stoves with open fires, e.g. fireplaces
 - F24B 1/1802 . . {adapted for the use of both solid fuel and another type of fuel or energy supply(for stoves F24C 1/02)}
 - F24B 1/1804 . . {Reverse-draught fireplaces}
 - F24B 1/1806 . . {Mounting of closed stoves in a fireplace}
 - F24B 1/1808 . . {Simulated fireplaces}
 - F24B 1/181 . . Free-standing fireplaces, e.g. for mobile homes;{Fireplaces convertible into stoves}
 - F24B 1/182 . . with additional provisions for cooking(other stoves with additional provisions for cooking F24B 1/26)
 - F24B 1/183 . . with additional provisions for heating water
 - F24B 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); Regulating combustion; Controls therefor
 - F24B 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)
 - F24B 1/1875 {combined with extinguishing devices}
 - F24B 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)
 - F24B 1/1881 {the heat exchange medium being either water or air}

F24B 1/1883	....	{the heat exchange medium being both water and air}
F24B 1/1885	....	{the heat exchange medium being air only}
F24B 1/1886	.....	{the heat exchanger comprising only tubular air ducts within the fire}
F24B 1/1888	.....	{with forced circulation}
F24B 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)
F24B 1/1895	....	{flue-gas control dampers}
F24B 1/19	....	Supplying combustion-air
F24B 1/1902	.....	{in combination with provisions for heating air only}
F24B 1/1905	.....	{in combination with provisions for heating water only}
F24B 1/1907	.....	{in combination with provisions for heating both air and water}
F24B 1/191	..	Component parts; Accessories
F24B 1/1915	...	{Means for removing ash}
F24B 1/192	...	Doors; Screens; Fuel guards{ fire-screens A47G 5/04 , protective guards F24C 15/36 }
F24B 1/193	...	Grates; Irons
F24B 1/195	...	Fireboxes; Frames; Hoods; heat reflectors
F24B 1/1952	....	{Multiple fire-boxes}
F24B 1/1955	....	{Hoods}
F24B 1/1957	....	{Heat reflectors}
F24B 1/197	...	Hearths
F24B 1/198	...	Surrounds-fronts
F24B 1/199	...	Fuel-handling equipment
F24B 1/20	.	Ranges
F24B 1/202	..	{specially adapted for travelling}
F24B 1/205	...	{collapsible}
F24B 1/207	...	{movable}
F24B 1/22	..	in which the baking oven is arranged above the fire-box
F24B 1/24	..	with built-in masses for heat storage or heat insulation
F24B 1/26	.	Stoves with additional provisions for cooking(stoves with open-fires with additional provisions for cooking F24B 1/182)
F24B 1/28	.	Combined installations of stoves or ranges, e.g. back-to-back stoves with a common fire-box
F24B 3/00		Heaters not covered by group F24B 1/00 , e.g. charcoal brazier (for cooking A47J 27/00 to A47J 37/00)
F24B 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)

- F24B 5/02 . in or around stoves
- F24B 5/021 .. {combustion-air circulation(regulating combustion [F23N](#) ; air supply for combustion apparatus [F23L](#))}
- F24B 5/023 ... {Supply of primary air for combustion}
- F24B 5/025 ... {Supply of secondary air for completing combustion of fuel}
- F24B 5/026 ... {Supply of primary and secondary air for combustion}
- F24B 5/028 .. {Arrangements combining combustion-air and flue-gas circulation}
- F24B 5/04 .. the air or gas passing downwards through the bottom of the stove of fire grate

- F24B 5/06 . in or around ranges
- F24B 5/08 .. around the baking oven
- F24B 5/082 ... {several ovens}
- F24B 5/085 ... {the oven in arranged under the fire-box}
- F24B 5/087 ... {Regulable circulation}

- F24B 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](#))

- F24B 7/002 . {Ranges}
- F24B 7/005 . {Flue-gas ducts}
- F24B 7/007 . {Stoves or ranges with additional provisions for heating both air and water}
- F24B 7/02 . with external air ducts
- F24B 7/025 .. {with forced circulation}
- F24B 7/04 . with internal air ducts
- F24B 7/045 .. {with forced circulation}
- F24B 7/06 . without air ducts{no material}

- F24B 9/00** **Stoves, ranges or flue-gas ducts, with additional provisions for heating**
water([F24B 1/182](#) , [F24B 1/183](#) take precedence)

- F24B 9/003 . {Ranges}
- F24B 9/006 . {flue-gas ducts}
- F24B 9/02 . in open containers, e.g. bain-marie
- F24B 9/04 . in closed containers

F24B 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)
F24B 13/002	. {Surrounds}
F24B 13/004	. {Doors specially adapted for stoves or ranges(doors for open fires F24B 1/192)}
F24B 13/006	. {Arrangements for cleaning, e.g. soot removal; Ash removal}
F24B 13/008	. . {Ash containers}
F24B 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)
F24B 13/04	. Arrangements for feeding solid fuel, e.g. hoppers(feeding solid fuel to combustion apparatus in general F23K)
F24B 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)
F24B 15/002	. {Scratchers or pokers}
F24B 15/005	. {Igniting devices; Fire-igniting fans(bellows F04B 45/02 ; gas pokers F23Q 13/02)}
F24B 15/007	. {Ash-sifters}
F24B 15/02	. for breaking coal
F24B 15/04	. Coal hods; Coal boxes
F24B 15/06	. Shovels with ejectors
F24B 15/08	. Shovels with sifters
F24B 15/10	. Coal tongs