

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 or 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 is 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