

**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](#))**

<b>F24B 5/00</b>	<b>Combustion-air or flue-gas circulation in or around stoves or ranges ( stoves with open fires with air-handling means <a href="#">F24B 1/185</a>)</b>
F24B 5/02	. in or around stoves
F24B 5/021	.. { combustion-air circulation ( regulating combustion <a href="#">F23N</a> ; air supply for combustion apparatus <a href="#">F23L</a> ) }
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 in arranged under the fire-box }
F24B 5/087	... { Regulable circulation }
<b>F24B 7/00</b>	<b>Stoves, ranges or flue-gas ducts, with additional provisions for convection heating ( stoves with open fires characterised by use of heat exchange means <a href="#">F24B 1/185</a> ; air heaters having heat generating means <a href="#">F24H 3/00</a>)</b>
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 }
<b>F24B 9/00</b>	<b>Stoves, ranges or flue-gas ducts, with additional provisions for heating water (<a href="#">F24B 1/182</a> , <a href="#">F24B 1/183</a> take precedence )</b>
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