SECTION F — MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING

F23 COMBUSTION APPARATUS; COMBUSTION PROCESSES

F23J REMOVAL OR TREATMENT OF COMBUSTION PRODUCTS OR COMBUSTION RESIDUES; FLUES (precipitating dust from flue gases B01D; composition of fuels C10; combustion apparatus for consuming smoke or fumes, e.g. exhaust gases, F23G 7/06)

Note(s)

1. This subclass covers also the cleaning of surfaces of furnace tubes, flame tubes, water tubes, flues or the like of boilers, heat-exchange or heat-transfer conduits, which surfaces are contaminated by combustion products or combustion residues.
2. This subclass does not cover the cleaning of surfaces of boilers, heat exchange or heat-transfer conduits contaminated by other than combustion products or combustion residues, which is covered by subclass F28G.

Subclass index

REMOVAL OF SOLID COMBUSTION PRODUCTS OR RESIDUES
From combustion chamber.....1/00
From places beyond the fire.....3/00
TREATMENT OF COMBUSTION PRODUCTS OR RESIDUES
Supply of chemicals; preventing solidification; Treating smoke or fumes.....7/00, 9/00, 15/00
FLUES, FITTINGS FOR CHIMNEYS OR FLUES.....11/00, 13/00
SUBJECT MATTER NOT PROVIDED FOR IN OTHER GROUPS OF THIS SUBCLASS.....99/00

1/00 Removing ash, clinker, or slag from combustion chambers (devices for removal of material from the bed of fluidised bed combustion apparatus F23C 10/24) **[1, 2006.01]**

1/02 • Apparatus for removing ash, clinker or slag from ash-pits, e.g. by employing trucks or conveyors, by employing suction devices **[1, 2006.01]**

1/04 • Hand tools, e.g. rakes, prickers, tongs **[1, 2006.01]**

1/06 • Mechanically-operated devices, e.g. clinker pushers (forming part of the grate F23H) **[1, 2006.01]**

1/08 • Liquid slag removal **[3, 2006.01]**

3/00 Removing solid residues from passages or chambers beyond the fire, e.g. from flues by soot blowers [1, 2006.01]

3/02 • Cleaning furnace tubes; Cleaning flues or chimneys (by means which do not differ materially from the cleaning of any other tube once the fire is out B08B) **[1, 2006.01]**

3/04 • Traps **[1, 2006.01]**

3/06 • Systems for accumulating residues from different parts of furnace plant **[1, 2006.01]**

7/00 Arrangement of devices for supplying chemicals to fire (supplying chemicals to fire C10L) **[1, 2006.01]**

9/00 Preventing premature solidification of molten combustion residues [1, 2006.01]

11/00 Devices for conducting smoke or fumes, e.g. flues (heat insulation therefor E04B 1/94; chimneys E04H 12/28; removing cooking fumes from domestic stoves or ranges F24C 15/20) **[1, 5, 2006.01]**

11/02 • for conducting smoke or fumes originating from various locations to the outside, e.g. in locomotive sheds, in garages **[1, 2006.01]**

11/04 • in locomotives; in road vehicles; in ships **[1, 2006.01]**

11/06 • • for conducting smoke horizontally **[1, 2006.01]**

11/08 • for portable apparatus **[1, 2006.01]**

11/10 • for tents; for log huts; for other inflammable structures **[1, 2006.01]**

11/12 • Smoke conduit systems for factories or large buildings **[1, 2006.01]**

13/00 Fittings for chimneys or flues (staying, stiffening E04H; means for facilitating climbing E06C; draught-inducing apparatus associated with chimneys or flues F23L) **[1, 2006.01]**

13/02 • Linings; Jackets; Casings **[1, 2006.01]**

13/04 • Joints; Connections (pipe joints in general F16L) **[1, 2006.01]**

13/06 • Mouths; Inlet holes **[1, 2006.01]**

13/08 • Doors or covers specially adapted for smoke-boxes, flues, or chimneys (in general E06B) **[1, 2006.01]**

15/00 Arrangements of devices for treating smoke or fumes (such devices per se, methods for treating smoke or fumes, see the relevant places for the treatment, e.g. B01D 53/00) **[1, 2006.01]**

15/02 • of purifiers, e.g. for removing noxious material (traps for solid residues F23J 3/04) **[6, 2006.01]**

15/04 • • using washing fluids **[6, 2006.01]**

15/06 • of coolers **[6, 2006.01]**

15/08 • of heaters **[6, 2006.01]**

99/00 Subject matter not provided for in other groups of this subclass [2006.01]