

ECLA**EUROPEAN CLASSIFICATION****F23J****REMOVAL OR TREATMENT OF COMBUSTION PRODUCTS OR COMBUSTION RESIDUES** [N: (from fluidised-bed combustion apparatus

[F23C11/02T5](#))]; **FLUES** (precipitating dust from flue gases B01D; composition of fuel C10; combustion apparatus for consuming smoke or fumes, e.g. exhaust gases, [F23G7/06](#))

Note on scope

This subclass covers the cleaning of external surfaces of water tubes of boilers

F23J1/00

Removing ash, clinker, or slag from combustion chamber [N: arrangements for collecting bottom ash and flyash [F23J3/06](#); removing flyash from fluegas [F23J15/02D](#)] [C9910]

F23J1/02

- Apparatus for removing ash, clinker, or slag from ash-pits, e.g. by employing trucks or conveyers, by employing suction devices

F23J1/04

- Hand tools, e.g. rakes, pricklers, tongs

F23J1/06

- Mechanically-operated devices, e.g. clinker pushers (forming part of the grate [F23H](#))

F23J1/08

- Liquid slag removal

F23J3/00

Removing solid [N: deposited] **residues from passages or chambers beyond the fire, e.g. from flues by soot blowers** [N: (soot blowers per se [F28G1/16](#))] [C9910]

F23J3/02

- 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](#))

F23J3/02B

- [N: cleaning the fireside of watertubes in boilers]

F23J3/02C

- [N: cleaning the chimneys]

F23J3/04

- Traps

F23J3/06

- Systems for accumulating residues from different parts of furnace plant

F23J7/00

Arrangement of devices for supplying chemicals to fire (supplying chemicals to fire [C10L](#); [N: to fumes [F23J15/00F](#)])

F23J9/00

Preventing premature solidification of molten combustion residues

F23J11/00

Devices for conducting smoke or fumes, e.g. flues ([N: removing fumes other than combustion fumes from the area where they are produced, in general [B08B15/00](#)]; heat insulation therefor [E04B1/94](#); chimneys [E04H12/28](#); removing cooking fumes from domestic stoves or ranges [F24C15/20](#); [N: fume conduits of furnaces, kilns, ovens, or retorts [F27D17/00B1](#)])

F23J11/02

- for conducting smoke or fumes originating from various locations to the outside, e.g. in

	locomotive sheds, in garages
F23J11/04	<ul style="list-style-type: none"> in locomotives; in road vehicles; in ships
F23J11/06	<ul style="list-style-type: none"> for conducting smoke horizontally
F23J11/08	<ul style="list-style-type: none"> for portable apparatus
F23J11/10	<ul style="list-style-type: none"> for tents; for log huts; for other inflammable structures
F23J11/12	<ul style="list-style-type: none"> Smoke conduit systems for factories or large buildings
F23J13/00	Fittings for chimneys or flues (staying, stiffening E04H ; means for facilitating climbing E06C ; draught-inducing apparatus associated with chimneys or flues F23L)
F23J13/02	<ul style="list-style-type: none"> Linings; Jackets; Casings
F23J13/02B	<ul style="list-style-type: none"> [N: composed of concentric elements, e.g. double walled (in general F16L; terminals for balanced flue arrangements F23L17/04)]
F23J13/04	<ul style="list-style-type: none"> Joints; Connections (pipe joints in general F16L)
F23J13/06	<ul style="list-style-type: none"> Mouths; Inlet holes
F23J13/08	<ul style="list-style-type: none"> Doors or covers specially adapted for smoke-boxes, flues, or chimneys (in general E06B)
F23J15/00	Arrangement of devices for treating smoke or fumes (treating smoke or fumes, see the relevant class for the treatment, e.g. B01D53/00)
F23J15/00F	<ul style="list-style-type: none"> [N: for supplying chemicals to fumes, e.g. using injection devices (to fire F23J7/00)]
F23J15/00P	<ul style="list-style-type: none"> [N: Layout of treatment plant]
F23J15/02	<ul style="list-style-type: none"> of purifiers, e.g. for removing noxious material (traps for solid [N: deposits] F23J3/04) [C9910]
F23J15/02D	<ul style="list-style-type: none"> [N: for removing solid particulate material from the gasflow] [N9910]
F23J15/02D1	<ul style="list-style-type: none"> [N: using filters] [N9910]
F23J15/02D3	<ul style="list-style-type: none"> [N: using cyclone separators] [N9910]
F23J15/04	<ul style="list-style-type: none"> using washing fluids [N: scrubbers for removing solids only F23J15/02D] [C9910]
F23J15/06	<ul style="list-style-type: none"> of coolers
F23J15/08	<ul style="list-style-type: none"> of heaters
F23J99/00	Subject matter not provided for in other groups of this subclass [N0704]