E03D WATER-CLOSETS OR URINALS WITH FLUSHING DEVICES; FLUSHING VALVES THEREFOR

WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

1/00 Water flushing devices with cisterns (Setting up a range of flushing devices or water-closets; Combinations of several flushing devices)

1/003 . . . [Cisterns in combination with wash-basins, urinals, or the like (domestic plumbing installations E03C)]

1/006 . . . [Realisations of and provisions for preventing "sweating" of cisterns]

1/01 . . . Shape or selection of material for flushing cisterns

1/012 . . . Details of shape of cisterns, e.g. for connecting to wall, for supporting or connecting flushing-device actuators (mounting frames with incorporated cisterns E03D 11/146)

1/0125 . . . [of built-in cisterns]

1/02 . . . High-level flushing systems

1/025 . . . [Cisterns with floats actuating the flushing]

1/04 . . . Cisterns with bell siphons

1/05 . . . with movable siphon bells

1/053 . . . [which are pushed upwards by means of own buoyancy, springs, counterweights, or the like]

1/056 . . . [providing an air lock]

1/06 . . . Cisterns with tube siphons

1/07 . . . with movable or deformable siphon tubes

1/08 . . . Siphon action initiated by air or water pressure (actuating mechanisms therefor E03D 5/024)

1/082 . . . [in tube siphons]

1/085 . . . [by injection of air or water in the short leg of the siphon]

1/087 . . . . . . [by pump, valve, or the like, in the short leg of the siphon or a vacuum pump in the long leg of the siphon]

1/10 . . . Siphon action initiated by raising the water level in the cistern, e.g. by means of displacement members

1/105 . . . . . . [in cisterns with tube siphons]

1/12 . . . Siphon action initiated by outlet of air

1/125 . . . [in cisterns with tube siphons]

1/14 . . . Cisterns discharging variable quantities of water (twin or multiple flushing cisterns E03D 1/22; flushing devices operated by pressure of the water supply system and discharging variable quantities of water E03D 3/12) (also cisterns with bell siphons in combination with flushing valves)

1/141 . . . [in cisterns with tube siphons and with tube siphons in combination with flushing valves]
Flushing devices operated by pressure of the water supply system (flushing valves not connected to the water-supply main, also if air is blown in the water seal for a quick flushing)

- Self-closing flushing valves (self-closing valves in general F16K 21/04)
- with piston valve and pressure chamber for retarding the valve-closing movement
- with diaphragm valve and pressure chamber for retarding the valve-closing movement
- with other retarding devices
- Flushing devices discharging variable quantities of water (flushing cisterns discharging variable quantities of water E03D 1/14)

Special constructions of flushing devices (in motor vehicles or trailers B60R 15/00; in railway carriages B61D 35/00; in ships B63B 29/14; in aircraft B64D 11/02), [e.g. closed flushing system]

- Grey water flushing systems
- [Constructional details of cisterns for using greywater]
- using flushing pumps
- with recirculation of bowl-cleaning fluid
- operated mechanically or hydraulically (E03D 5/01, E03D 5/12 take precedence) (for pneumatically also details such as push buttons, levers and pull-card therefor)
- [Operating automatically (E03D 5/10 takes precedence)]
- [Operated hydraulically or pneumatically]
- [Devices preventing overflow or locks inhibiting the use of the flushing system (devices preventing overflow of the bowl contents and seals for the bowl outlet E03D 1/10); Devices preventing sucking-up of sealing and flushing water]
- [Pusher plates and actuating mechanisms for built-in cisterns]
- directly by the seat or cover (combined with devices for opening and closing shutters in the bowl outlet and/or with devices for raising and lowering seat and/or cover; Raising or lowering seat and/or cover by flushing or by the flushing mechanism)
- directly by the door
Devices in the bowl producing upwardly-directed sprays; Modifications of the bowl for use with such devices (showers A47K 3/28; bathing devices for special therapeutic or hygienic purposes A61H 33/00), for specific parts of the body A61H 35/00 ; Bidets; Combinations of bowls with urinals or bidets; Hot-air or other devices mounted in or on the bowl, urinal or bidet for cleaning or disinfecting

Water pressure regulating means in flushing pipes

Other component parts of water-closets (pipe-joints or couplings in general F16L) ; e.g. noise-reducing means in the flushing system (noise-reducing means in combination with flushing valves E03D 9/14), flushing pipes mounted in the bowl, seals for the bowl outlet, devices preventing overflow of the bowl contents; devices forming a water seal in the bowl after flushing, devices eliminating obstructions in the bowl outlet or preventing backflow of water and excrements from the waterpipe)

Water-closet bowls (auxiliary chambers with connections to flushing water for bowl-cleaning utensils E03D 9/06; modified for using upwardly-directed sprays E03D 9/08; seats or covers A47K 13/00) ; Bowls with a double odour seal optionally with provisions for a good siphonic action; siphons as part of the bowl (parts or details of bowls E03D 11/13)

(Combined with wash-basins, urinals, flushing devices for chamber-pots, bed-pans, or the like)

Bows of flat shape with only slightly inclined bottom (Squat-type closets)

Bows with downwardly-extending flanges (for the sake of flushing)

Bows with means producing a flushing water swirl

Bows with closure elements provided between bottom or outlet and the outlet pipe; Bowls with pivotally supported inserts

Bows combined with a reservoir, e.g. containing apparatus for disinfecting or for disintegrating

Swivel-mounted bowls, e.g. for use in restricted spaces (slidably or movably mounted bowls; combinations with flushing and disinfecting devices actuated by the swiveling or sliding movement of the bowl)