

## SECTION E — FIXED CONSTRUCTIONS

### E03 WATER SUPPLY; SEWERAGE

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

##### Subclass index

##### WATER-CLOSETS, FLUSHING DEVICES

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##### **1/00 Water flushing devices with 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
- 1/02 • High-level flushing systems
- 1/04 • • Cisterns with bell siphons
- 1/05 • • • with movable siphon bells
- 1/06 • • Cisterns with tube siphons
- 1/07 • • • with movable or deformable siphon tubes
- 1/08 • • • Siphon action initiated by air or water pressure
- 1/10 • • • Siphon action initiated by raising the water level in the cistern, e.g. by means of displacement members
- 1/12 • • • Siphon action initiated by outlet of air
- 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)
- 1/16 • • Cisterns for periodical discharge
- 1/18 • • Cisterns empty when not in action
- 1/20 • • Cisterns with tiltably-mounted containers
- 1/22 • • Twin or multiple flushing cisterns
- 1/24 • Low-level flushing systems
- 1/26 • • Bowl with flushing cistern mounted on the rearwardly extending end of the bowl (shape or material of the cistern E03D 1/01; constructional features of the bowl E03D 11/02-E03D 11/12)
- 1/28 • • Bowl integral with the flushing cistern
- 1/30 • Valves for high or low cisterns; Their arrangement (inlet valves, valves in general F16K)
- 1/32 • • Arrangement of inlet valves (devices for reducing noise E03D 9/14)
- 1/33 • • Adaptations or arrangements of floats (actuating-floats in general F16K 33/00)
- 1/34 • • Flushing valves for outlets; Arrangement of outlet valves
- 1/35 • • • Flushing valves having buoyancy [2]
- 1/36 • • Associated working of inlet and outlet valves
- 1/38 • Adaptations or arrangements of flushing pipes (noise-absorbing means in pipe systems F16L 55/00)

##### **3/00 Flushing devices operated by pressure of the water supply system**

- 3/02 • Self-closing flushing valves (self-closing valves in general F16K 21/04)
- 3/04 • • with piston valve and pressure chamber for retarding the valve-closing movement
- 3/06 • • with diaphragm valve and pressure chamber for retarding the valve-closing movement
- 3/08 • • with other retarding devices
- 3/10 • Flushing devices with pressure-operated reservoir, e.g. air chamber
- 3/12 • Flushing devices discharging variable quantities of water (flushing cisterns discharging variable quantities of water E03D 1/14)

##### **5/00 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)

- 5/01 • using flushing pumps
- 5/012 • combined with movable closure elements in the bowl outlet (bowls with closure elements between bottom or outlet and outlet pipe E03D 11/10)
- 5/014 • • with devices for separate removal of liquids and solids
- 5/016 • with recirculation of bowl-cleaning fluid
- 5/02 • operated mechanically or hydraulically (E03D 5/01, E03D 5/12 take precedence)
- 5/04 • • directly by the seat or cover
- 5/06 • • directly by the door
- 5/08 • • directly by foot
- 5/09 • • directly by hand
- 5/092 • • • the flushing element, e.g. siphon bell, being actuated through a lever
- 5/094 • • • the flushing element, e.g. siphon bell, being actuated through a cable, chain, or the like
- 5/10 • operated electrically (E03D 5/01, E03D 5/12 take precedence)
- 5/12 • discharging periodically (high-level cisterns for periodical discharge E03D 1/16)

##### **7/00 Wheeled lavatories** (wheeled closets without flushing A47K 11/00; construction of land vehicles B62)

- 9/00 Sanitary or other accessories for lavatories** (hand tools for cleaning the toilet bowl A47K 11/10; seats or covers for closets A47K 13/00; body supports, other than seats, for closets A47K 17/02; devices for preventing contamination of drinking-water pipes E03C 1/10)
- 9/02 • Devices adding a disinfecting, deodorising or cleaning agent to the water while flushing, or in the flushing tank (apparatus for disinfection of materials or objects in general A61L 2/00; treatment of water in general C02F)
  - 9/03 • • consisting of a separate container with an outlet through which the agent is introduced into the flushing water, e.g. by suction
  - 9/04 • Special arrangement or operation of ventilating devices (ventilating rooms in general F24F)
  - 9/05 • • ventilating the bowl
  - 9/052 • • • using incorporated fans [2]
  - 9/06 • Auxiliary chambers with water connection to the flushing pipe and adapted to receive utensils for bowl-cleaning, e.g. brushes
  - 9/08 • 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)
  - 9/10 • Waste-disintegrating apparatus combined with the bowl
  - 9/12 • Means to prevent freezing of lavatories
  - 9/14 • Noise-reducing means combined with flushing valves (noise-absorbing means in pipe systems F16L 55/00)
  - 9/16 • Water pressure regulating means in flushing pipes
- 11/00 Other component parts of water-closets** (pipe joints or couplings in general F16L)
- 11/02 • 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)
  - 11/04 • • Bowls of flat shape with only slightly inclined bottom
  - 11/06 • • Bowls with downwardly-extending flanges
  - 11/08 • • Bowls with means producing a flushing water swirl
  - 11/10 • • Bowls with closure elements provided between bottom or outlet and the outlet pipe; Bowls with pivotally supported inserts
  - 11/11 • • Bowls combined with a reservoir, e.g. containing apparatus for disinfecting or for disintegrating
  - 11/12 • Swivel-mounted bowls, e.g. for use in restricted spaces
  - 11/13 • Parts or details of bowls; Special adaptations of pipe joints or couplings for use with bowls [2]
  - 11/14 • • Means for connecting the bowl to the wall, e.g. to a wall outlet [2]
  - 11/16 • • Means for connecting the bowl to the floor, e.g. to a floor outlet [2]
  - 11/17 • • Means for connecting the bowl to the flushing pipe [2]
  - 11/18 • Siphons (for pipes in general F16L 43/00, F16L 45/00)
- 13/00 Urinals** (without flushing devices A47K 11/00)