**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.

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### I/00 Water flushing devices with cisterns

- **1/00** Water flushing devices with cisterns
  - **1/03** [Cisterns in combination with wash-basins, urinals, or the like (domestic plumbing installations E03C)]
  - **1/06** [Realisations of and provisions for preventing "sweating" of cisterns]
- **1/01 Shape or selection of material for flushing cisterns**
- **1/02 High-level flushing systems**
- **1/03 Cisterns with floats actuating the flushing**
- **1/05 Cisterns with bell siphons**
- **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
  - **1/082** [in cisterns]
  - **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
- **1/12** Siphon action initiated by outlet of air
- **1/14 Cisterns discharging variable quantities of water**
  - **1/141** [in cisterns with tube siphons and with tube siphons in combination with flushing valves]
3/00 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)

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), [e.g. closed flushing system]

5/003 . [Grey water flushing systems]

5/006 . [Constructional details of cisterns for using greywater]

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) ([or pneumatically] also details such as push buttons, levers and pull-card therefor)

5/022 . [Operating automatically (E03D 5/10 takes precedence)]

5/024 . [Operated hydraulically or pneumatically]

5/026 . [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 11/00); Devices preventing sucking-up of sealing and flushing water]

5/028 . [Pusher plates and actuating mechanisms for built-in cisterns]

5/04 . 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 or cover; Raising or lowering seat and/or cover by flushing or by the flushing mechanism}

5/06 . directly by the door

5/08 . directly by the foot {combined with devices for opening or closing shutters in the bowl outlet and/or with devices for raising or lowering seat and cover and/or for swiveling the bowl]

5/09 . directly by the 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), (e.g. by a photo-cell; also combined with devices for opening or closing shutters in the bowl outlet and/or with devices for raising/or lowering seat and cover and/or for swiveling the bowl)

5/105 . [touchless, e.g. using sensors]

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) { Devices for cleaning or disinfecting the toilet room or the toilet bowl; Devices for eliminating smells (cleaning, disinfecting or deodorising the seat A47K 13/30) }

9/002 . [Automatic cleaning devices]

9/005 . [Devices adding disinfecting or deodorising agents to the bowl]

9/007 . [Devices for eliminating smells by diffusing deodorants in lavatories]

9/02 . Devices adding a disinfecting, deodorising, or cleaning agent to the water while flushing (apparatus for disinfection A61L 2/00; treatment of water in general C02F)

9/022 . [consisting of solid substances introduced in the bowl or the supply line]

2009/024 . [using a solid substance]

2009/026 . [using a gel-form substance]

2009/028 . [using a liquid substance]

9/03 . consisting of a separate container with an outlet through which the agent is introduced into the flushing water, e.g. by suction [: Devices for agents in direct contact with flushing water]

9/031 . [Devices connected to or dispensing into the flushing pipe]

9/032 . [Devices connected to or dispensing into the bowl]

9/033 . [Devices placed inside or dispensing into the cistern]

9/035 . [Devices connected to the actuation mechanism (E03D 9/036 takes precedence)]

9/036 . [Scoop-like devices]

9/037 . [Active dispensers, i.e. comprising a moving dosing element (E03D 9/035 takes precedence)]

9/038 . [Passive dispensers, i.e. without moving parts]
9/04  . Special arrangement or operation of ventilating devices (ventilating rooms in general F24F)
9/05  . . ventilating the bowl
9/05  . . . using incorporated fans
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) {; 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}
9/085 . . {Hand-held spray heads for bidet use or for cleaning the bowl}
9/10  . Waste-disintegrating apparatus combined with the bowl {; special flushing devices E03D 5/00}
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; if not in combination with flushing valves E03D 11/00; noise-reducing means in valves in general F16K 47/00)
9/16  . Water pressure regulating means in flushing pipes
9/22  . 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)
11/00  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)
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 9/06; 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)}
11/04  . . {Combined with wash-basins, urinals, flushing devices for chamber-pots, bed-pans, or the like}
11/05  . . Bowls of flat shape with only slightly inclined bottom {Squat-type closets}
11/06  . . Bowls with downwardly-extending flanges {for the sake of flushing}
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 (slidably or movably mounted bowls; combinations with flushing and disinfecting devices actuated by the swiveleng or sliding movement of the bowl)
11/125 . . {Height adjustable bowls}
11/13  . . Parts or details of bowls; Special adaptations of pipe joints or couplings for use with bowls {, e.g. provisions in bowl construction preventing backflow of waste-water from the bowl in the flushing pipe or cistern, provisions for a secondary flushing, for noise-reducing}
11/135 . . {Supports for bowls}
11/14  . . Means for connecting the bowl to the wall, e.g. to a wall outlet
11/143 . . . {Mounting frames for toilets and urinals}
11/146 . . . { with incorporated cistern (wall built-in flushing cisterns, connecting a cistern to the wall E03D 1/012)}
11/16  . . Means for connecting the bowl to the floor, e.g. to a floor outlet
11/17  . . Means for connecting the bowl to the flushing pipe
11/18  . . Siphons (for pipes in general F16L 43/00; F16L 45/00; if as part of the bowl E03D 11/02; connecting the siphon to the bowl)
13/00  Urinals (without flushing devices A47K 11/00) {; Means for connecting the urinal to the flushing pipe and the wastepipe; Splashing shields for urinals)
13/002 . {intended for use by women}
13/005 . {Accessories specially adapted for urinals}
13/007 . {Waterless or low-flush urinals; Accessories therefor (siphons E03C 1/281)

2201/00  Details and methods of use for water closets and urinals not otherwise provided for
2201/20  . Noise reduction features
2201/30  . Water injection in siphon for enhancing flushing
2201/40  . Devices for distribution of flush water inside the bowl