CPC COOPERATIVE PATENT CLASSIFICATION

E FIXED CONSTRUCTIONS

BUILDING

E03 WATER SUPPLY; SEWERAGE

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 <u>E03C</u>)}
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 <u>E03D 11/146</u>)}
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}

1/142	• • • {in cisterns with flushing valves}
1/142	•••• {having a single flush outlet and an
1/144	additional float for delaying the valve
	closure}
1/145	• • • {having multiple flush outlets}
2001/147	• • • • • • • • • • • • • • • • • • •
	flushing}
2001/148	• • • • { with means to prevent premature closing of flushing valve }
1/16	Cisterns for periodical discharge
1/165	• • • {with bell or tube siphons}
1/18	. Cisterns empty when not in action {, e.g. with
	pressure tanks, with swivel-mounted cisterns}
1/183	• • • {with bell or tube siphons}
1/186	• • • {with flushing valves}
1/20	• Cisterns with tiltably-mounted containers {(for
	operation, e.g. by the seat $\underline{\text{E03D } 5/04}$)
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 <u>E03D 11/02</u> - <u>E03D 11/12</u>)
1/263	• • • {provided with a bell or tube siphon}
1/266	 • {exclusively provided with flushing valves as flushing mechanisms}
1/28	• • Bowl integral with the flushing cistern
1/283	• • {provided with a bell or tube siphon}
1/286	• • • {provided with flushing valves}
1/30	• Valves for high or low level cisterns; Their
	arrangement (inlet valves, valves in general F16K
){; Flushing mechanisms in the cistern, optionally
	with provisions for a pre-or a post- flushing and
	for cutting off the flushing mechanism in case of
	leakage (flushing valves E03D 1/142, E03D 1/186,
	E03D 1/266, E03D 1/286)}
1/302	• • {with valves kept in open position by means of air or water pressure or by vacuum}
1/304	• {with valves with own buoyancy}
1/306	• • • {with articulated valves}
1/308	• {with articulated valves (E03D 1/306 takes
	precedence)}
1/32	• Arrangement of inlet valves (devices for reducing
	noise <u>E03D 9/14</u> {; noise-reducing means $E03D 11(001)$
	<u>E03D 11/00</u> })

E03D

1/33	• Adaptations or arrangements of floats (actuating- floats in general <u>F16K 33/00</u>)
1/34	Flushing valves for outlets; Arrangement of outlet valves
1/35	 Flushing valves having buoyancy
1/36	Associated working of inlet and outlet valves
1/38	Adaptations or arrangements of flushing
1/50	pipes (noise-absorbing means in pipe systems
	<u>F16L 55/00</u> {; noise-reducing means in the flushing
	mechanism not in combination with flushing valves
	<u>E03D 11/00;</u> provisions in the flushing pipe for
	evacuating leakage water from the cistern})
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
a /0 a	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	Createl constructions of fluching devices (in
5/00	Special constructions of flushing devices (in motor vehicles or trailers <u>B60R 15/00</u> ; in railway
	carriages $\underline{B61D}$ 35/00; in ships $\underline{B63B}$ 29/14; in
	sireraft $B64D [11/02]$ (a.g. closed fluching system)
5/002	aircraft <u>B64D 11/02</u>), {e.g. closed flushing system}
5/003 5/006	• {Grey water flushing systems}
5/003 5/006	 {Grey water flushing systems } {Constructional details of cisterns for using
5/006	 {Grey water flushing systems} . {Constructional details of cisterns for using greywater}
5/006 5/01	 {Grey water flushing systems} . {Constructional details of cisterns for using greywater} . using flushing pumps
5/006	 {Grey water flushing systems} . {Constructional details of cisterns for using greywater} using flushing pumps combined with movable closure elements in the
5/006 5/01	 {Grey water flushing systems} . {Constructional details of cisterns for using greywater} using flushing pumps combined with movable closure elements in the bowl outlet (bowls with closure elements between
5/006 5/01 5/012	 {Grey water flushing systems} . {Constructional details of cisterns for using greywater} using flushing pumps combined with movable closure elements in the bowl outlet (bowls with closure elements between bottom or outlet and outlet pipe E03D 11/10)
5/006 5/01	 {Grey water flushing systems} . {Constructional details of cisterns for using greywater} using flushing pumps combined with movable closure elements in the bowl outlet (bowls with closure elements between
5/006 5/01 5/012 5/014	 {Grey water flushing systems} . {Constructional details of cisterns for using greywater} using flushing pumps combined with movable closure elements in the bowl outlet (bowls with closure elements between bottom or outlet and outlet pipe E03D 11/10) with devices for separate removal of liquids and solids
5/006 5/01 5/012 5/014 5/016	 {Grey water flushing systems} . {Constructional details of cisterns for using greywater} using flushing pumps combined with movable closure elements in the bowl outlet (bowls with closure elements between bottom or outlet and outlet pipe E03D 11/10) with devices for separate removal of liquids and solids with recirculation of bowl-cleaning fluid
5/006 5/01 5/012 5/014	 {Grey water flushing systems} . {Constructional details of cisterns for using greywater} using flushing pumps combined with movable closure elements in the bowl outlet (bowls with closure elements between bottom or outlet and outlet pipe E03D 11/10) with devices for separate removal of liquids and solids with recirculation of bowl-cleaning fluid operated mechanically or hydraulically (E03D 5/01,
5/006 5/01 5/012 5/014 5/016	 {Grey water flushing systems} . {Constructional details of cisterns for using greywater} using flushing pumps combined with movable closure elements in the bowl outlet (bowls with closure elements between bottom or outlet and outlet pipe E03D 11/10) with devices for separate removal of liquids and solids with recirculation of bowl-cleaning fluid operated mechanically or hydraulically (E03D 5/01, E03D 5/12 take precedence){(or pneumatically)
5/006 5/01 5/012 5/014 5/016	 {Grey water flushing systems} . {Constructional details of cisterns for using greywater} using flushing pumps combined with movable closure elements in the bowl outlet (bowls with closure elements between bottom or outlet and outlet pipe E03D 11/10) with devices for separate removal of liquids and solids with recirculation of bowl-cleaning fluid operated mechanically or hydraulically (E03D 5/01,
5/006 5/01 5/012 5/014 5/016	 {Grey water flushing systems} . {Constructional details of cisterns for using greywater} using flushing pumps combined with movable closure elements in the bowl outlet (bowls with closure elements between bottom or outlet and outlet pipe E03D 11/10) with devices for separate removal of liquids and solids with recirculation of bowl-cleaning fluid 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}
5/006 5/01 5/012 5/014 5/016 5/02	 {Grey water flushing systems} . {Constructional details of cisterns for using greywater} using flushing pumps combined with movable closure elements in the bowl outlet (bowls with closure elements between bottom or outlet and outlet pipe E03D 11/10) with devices for separate removal of liquids and solids with recirculation of bowl-cleaning fluid 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} {Operating automatically (E03D 5/10 takes
5/006 5/01 5/012 5/014 5/016 5/02	 {Grey water flushing systems} . {Constructional details of cisterns for using greywater} using flushing pumps combined with movable closure elements in the bowl outlet (bowls with closure elements between bottom or outlet and outlet pipe E03D 11/10) with devices for separate removal of liquids and solids with recirculation of bowl-cleaning fluid 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} {Operating automatically (E03D 5/10 takes precedence)}
5/006 5/01 5/012 5/014 5/016 5/02 5/022 5/024	 {Grey water flushing systems} . {Constructional details of cisterns for using greywater} using flushing pumps combined with movable closure elements in the bowl outlet (bowls with closure elements between bottom or outlet and outlet pipe E03D 11/10) with devices for separate removal of liquids and solids with recirculation of bowl-cleaning fluid 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} {Operating automatically (E03D 5/10 takes precedence)} {Operated hydraulically or pneumatically}
5/006 5/01 5/012 5/014 5/016 5/02 5/022	 {Grey water flushing systems} . {Constructional details of cisterns for using greywater} using flushing pumps combined with movable closure elements in the bowl outlet (bowls with closure elements between bottom or outlet and outlet pipe E03D 11/10) with devices for separate removal of liquids and solids with recirculation of bowl-cleaning fluid 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} {Operating automatically (E03D 5/10 takes precedence)} {Operated hydraulically or pneumatically} {Devices preventing overflow or locks inhibiting
5/006 5/01 5/012 5/014 5/016 5/02 5/022 5/024	 {Grey water flushing systems} . {Constructional details of cisterns for using greywater} using flushing pumps combined with movable closure elements in the bowl outlet (bowls with closure elements between bottom or outlet and outlet pipe E03D 11/10) with devices for separate removal of liquids and solids with recirculation of bowl-cleaning fluid 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} {Operating automatically (E03D 5/10 takes precedence)} {Operated hydraulically or pneumatically}
5/006 5/01 5/012 5/014 5/016 5/02 5/022 5/024	 {Grey water flushing systems} . {Constructional details of cisterns for using greywater} using flushing pumps combined with movable closure elements in the bowl outlet (bowls with closure elements between bottom or outlet and outlet pipe E03D 11/10) with devices for separate removal of liquids and solids with recirculation of bowl-cleaning fluid 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} {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
5/006 5/01 5/012 5/014 5/016 5/02 5/022 5/024	 {Grey water flushing systems} . {Constructional details of cisterns for using greywater} using flushing pumps combined with movable closure elements in the bowl outlet (bowls with closure elements between bottom or outlet and outlet pipe E03D 11/10) with devices for separate removal of liquids and solids with recirculation of bowl-cleaning fluid 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} {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
5/006 5/01 5/012 5/014 5/016 5/02 5/022 5/024	 {Grey water flushing systems} {Constructional details of cisterns for using greywater} using flushing pumps combined with movable closure elements in the bowl outlet (bowls with closure elements between bottom or outlet and outlet pipe E03D 11/10) with devices for separate removal of liquids and solids with recirculation of bowl-cleaning fluid 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} {Operated hydraulically (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 outlet E03D 11/00); Devices preventing
5/006 5/01 5/012 5/014 5/016 5/02 5/022 5/022 5/024 5/026	 {Grey water flushing systems} {Constructional details of cisterns for using greywater} using flushing pumps combined with movable closure elements in the bowl outlet (bowls with closure elements between bottom or outlet and outlet pipe E03D 11/10) with devices for separate removal of liquids and solids with recirculation of bowl-cleaning fluid 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} {Operated hydraulically (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 outlet E03D 11/00); Devices preventing sucking-up of sealing and flushing water}
5/006 5/01 5/012 5/014 5/016 5/02 5/022 5/022 5/024 5/026	 {Grey water flushing systems} {Constructional details of cisterns for using greywater} using flushing pumps combined with movable closure elements in the bowl outlet (bowls with closure elements between bottom or outlet and outlet pipe E03D 11/10) with devices for separate removal of liquids and solids with recirculation of bowl-cleaning fluid 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} {Operated hydraulically (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 outlet E03D 11/00); Devices preventing sucking-up of sealing and flushing water} {Pusher plates and actuating mechanisms for
5/006 5/01 5/012 5/014 5/016 5/02 5/022 5/022 5/022 5/028	 {Grey water flushing systems} {Constructional details of cisterns for using greywater} using flushing pumps combined with movable closure elements in the bowl outlet (bowls with closure elements between bottom or outlet and outlet pipe E03D 11/10) with devices for separate removal of liquids and solids with recirculation of bowl-cleaning fluid 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} {Operated hydraulically (E03D 5/10 takes precedence)} {Operated hydraulically or pneumatically} {Operated hydraulically or pneumatically} {Devices preventing overflow or locks inhibiting the use of the flushing system (devices preventing overflow of the bowl outlet E03D 11/00); Devices preventing sucking-up of sealing and flushing water} {Pusher plates and actuating mechanisms for built-in cisterns}
5/006 5/01 5/012 5/014 5/016 5/02 5/022 5/022 5/022 5/028	 {Grey water flushing systems} . {Constructional details of cisterns for using greywater} using flushing pumps combined with movable closure elements in the bowl outlet (bowls with closure elements between bottom or outlet and outlet pipe E03D 11/10) with devices for separate removal of liquids and solids with recirculation of bowl-cleaning fluid 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} {Operated hydraulically (E03D 5/10 takes precedence)} {Operated hydraulically or pneumatically} {Operated hydraulically or pneumatically} {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 11/00); 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
5/006 5/01 5/012 5/014 5/016 5/02 5/022 5/022 5/022 5/028	 {Grey water flushing systems} . {Constructional details of cisterns for using greywater} using flushing pumps combined with movable closure elements in the bowl outlet (bowls with closure elements between bottom or outlet and outlet pipe E03D 11/10) with devices for separate removal of liquids and solids with recirculation of bowl-cleaning fluid 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} {Operated hydraulically (E03D 5/10 takes precedence)} {Operated hydraulically or pneumatically} {Operated hydraulically or pneumatically} {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 11/00); 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
5/006 5/01 5/012 5/014 5/016 5/02 5/022 5/022 5/022 5/028	 {Grey water flushing systems} . {Constructional details of cisterns for using greywater} using flushing pumps combined with movable closure elements in the bowl outlet (bowls with closure elements between bottom or outlet and outlet pipe E03D 11/10) with devices for separate removal of liquids and solids with recirculation of bowl-cleaning fluid 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} {Operating automatically (E03D 5/10 takes precedence)} {Operated hydraulically or pneumatically} {Operated hydraulically or pneumatically} {Devices preventing overflow or locks inhibiting the use of the flushing system (devices preventing overflow of the bowl outlet E03D 11/00); 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
5/006 5/01 5/012 5/014 5/016 5/02 5/022 5/022 5/022 5/028	 {Grey water flushing systems} . {Constructional details of cisterns for using greywater} using flushing pumps combined with movable closure elements in the bowl outlet (bowls with closure elements between bottom or outlet and outlet pipe E03D 11/10) with devices for separate removal of liquids and solids with recirculation of bowl-cleaning fluid 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} {Operating automatically (E03D 5/10 takes precedence)} {Operated hydraulically or pneumatically} {Operated hydraulically or pneumatically} {Devices preventing overflow or locks inhibiting the use of the flushing system (devices preventing overflow of the bowl outlet E03D 11/00); 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 or cover; Raising or lowering

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
	<u>B62</u>)
9/00	Sanitary or other accessories for lavatories (hand
	tools for cleaning the toilet bowl <u>A47K 11/10;</u> seats
	or covers for closets <u>A47K 13/00</u> ; body supports,
	other than seats for closets <u>A47K 17/02</u> ; devices for preventing contamination of drinking-water pipes
	<u>E03C 1/10</u>); 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
0.400	deodorants in lavatories}
9/02	• Devices adding a disinfecting, deodorising,
	or cleaning agent to the water while flushing (apparatus for disinfection <u>A61L 2/00</u> ; treatment of
	water in general $\underline{C02F}$)
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
9/031	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)}

 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}

. . directly by the hand

5/08

5/09

- 9/036 . . . {Scoop-like devices} 9/037 . . . {Active dispensers, i.e. comprising a moving dosing element (<u>E03D 9/035</u> takes precedence)}
- 9/038 • {Passive dispensers, i.e. without moving parts}

E03D

	• Special arrangement or operation of ventilating devices (ventilating rooms in general <u>F24F</u>)
9/05	• • ventilating the bowl
9/052	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 <u>A47K 3/28</u>; bathing devices for special therapeutic or hygienic purposes <u>A61H 33/00</u>, for specific parts of the body <u>A61H 35/00</u>){; 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 <u>F16L 55/00</u> {; if not in combination with flushing valves <u>E03D 11/00</u>; noise-reducing means in valves in general <u>F16K 47/00</u>})
9/16	• Water pressure regulating means in flushing pipes
11/00	Other component parts of water-closets (pipe- joints or couplings in general <u>F16L</u>){, e.g. noise- reducing means in the flushing system (noise- reducing means in combination with flushing valves <u>E03D 9/14</u>), 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
11/02	 eliminating obstructions in the bowl outlet or preventing backflow of water and excrements from the waterpipe} Water-closet bowls (auxiliary chambers with
	 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 <u>A47K 13/00</u>){; 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)}
11/02 11/025 11/04	 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}
11/025 11/04	 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} Bowls of flat shape with only slightly inclined bottom {; Squat-type closets}
11/025 11/04 11/06	 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 <u>A47K 13/00</u>){; 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} Bowls of flat shape with only slightly inclined bottom {; Squat-type closets} Bowls with downwardly-extending flanges {for the sake of flushing}
11/025 11/04	 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 <u>A47K 13/00</u>){; 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} Bowls of flat shape with only slightly inclined bottom {; Squat-type closets} Bowls with downwardly-extending flanges {for the sake of flushing} Bowls with means producing a flushing water swirl
11/025 11/04 11/06	 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} Bowls of flat shape with only slightly inclined bottom {; Squat-type closets} Bowls with downwardly-extending flanges {for the sake of flushing} Bowls with closure elements provided between bottom or outlet and the outlet pipe; Bowls with pivotally supported inserts
11/025 11/04 11/06 11/08	 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 <u>A47K 13/00</u>){; 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 <u>E03D 11/13</u>)} {Combined with wash-basins, urinals, flushing devices for chamber-pots, bed-pans, or the like} Bowls of flat shape with only slightly inclined bottom {; Squat-type closets} Bowls with downwardly-extending flanges {for the sake of flushing} Bowls with closure elements provided between bottom or outlet and the outlet pipe; Bowls with

11/125 11/13	 . {Height adjustable bowls} 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 <u>E03D 1/012</u>)}
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 <u>F16L 43/00</u> , <u>F16L 45/00</u> {; if as part of the bowl <u>E03D 11/02</u> ; connecting the siphon to the bowl})
13/00	Urinals (without flushing devices <u>A47K 11/00</u>){; 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