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	1/142	• • • {in cisterns with flushing valves}
	up a range of flushing devices or water-closets; Combinations of several flushing devices}	1/144	• • • {having a single flush outlet and an additional float for delaying the valve
1/003	• {Cisterns in combination with wash-basins, urinals,		closure}
	or the like (domestic plumbing installations <u>E03C</u>)}	1/145	{having multiple flush outlets}
1/006	• {Realisations of and provisions for preventing	2001/147	• {having provisions for active interruption of
	"sweating" of cisterns}		flushing}
1/01	Shape or selection of material for flushing cisterns	2001/148	• • • • {with means to prevent premature closing of
1/012	• Details of shape of cisterns, e.g. for connecting to		flushing valve}
	wall, for supporting or connecting flushing-device	1/16	Cisterns for periodical discharge
	actuators {(mounting frames with incorporated	1/165	• • • {with bell or tube siphons}
1/0125	cisterns E03D 11/146)}	1/18	Cisterns empty when not in action {, e.g. with
1/0125 1/02	 { of built-in cisterns }. High-level flushing systems		pressure tanks, with swivel-mounted cisterns}
		1/183	• • • {with bell or tube siphons}
1/025	• • {Cisterns with floats actuating the flushing}	1/186	• • • {with flushing valves}
1/04	. Cisterns with bell siphons	1/20	Cisterns with tiltably-mounted containers {(for
1/05	• • • with movable siphon bells		operation, e.g. by the seat <u>E03D 5/04</u>)}
1/053	• • • • {which are pushed upwards by means of own	1/22	Twin or multiple flushing cisterns
	buoyancy, springs, counterweights, or the	1/24	. Low-level flushing systems
1/056	like} {providing an air lock}	1/26	Bowl with flushing cistern mounted on the
			rearwardly extending end of the bowl (shape or
1/06	• Cisterns with tube siphons		material of the cistern E03D 1/01; constructional
1/07	• • • with movable or deformable siphon tubes	1/0/2	features of the bowl <u>E03D 11/02</u> - <u>E03D 11/12</u>)
1/08	Siphon action initiated by air or water pressure	1/263	• • • {provided with a bell or tube siphon}
1/082	{(actuating mechanisms therefor <u>E03D 5/024</u>)} {in tube siphons}	1/266	 • {exclusively provided with flushing valves as flushing mechanisms}
1/085	• • • {by injection of air or water in the short	1/28	Bowl integral with the flushing cistern
1/005	leg of the siphon}	1/283	• • • {provided with a bell or tube siphon}
1/087	• • • • {by pump, valve, or the like, in the short	1/286	• • {provided with a belt of table signor} • • • {provided with flushing valves}
1,007	leg of the siphon or a vacuum pump in the	1/30	Valves for high or low level cisterns; Their
	long leg of the siphon}	1/30	arrangement (inlet valves, valves in general <u>F16K</u>
1/10	Siphon action initiated by raising the){; Flushing mechanisms in the cistern, optionally
	water level in the cistern, e.g. by means of		with provisions for a pre-or a post- flushing and
	displacement members		for cutting off the flushing mechanism in case of
1/105	• • • • {in cisterns with tube siphons}		leakage (flushing valves E03D 1/142, E03D 1/186,
1/12	Siphon action initiated by outlet of air		E03D 1/266, E03D 1/286)}
1/125	• • • {in cisterns with tube siphons}	1/302	{with valves kept in open position by means of
1/14	Cisterns discharging variable quantities of water		air or water pressure or by vacuum}
	(twin or multiple flushing cisterns <u>E03D 1/22</u> ;	1/304	• { with valves with own buoyancy}
	flushing devices operated by pressure of the water	1/306	• • • {with articulated valves}
	supply system and discharging variable quantities	1/308	• • {with articulated valves (<u>E03D 1/306</u> takes
	of water E03D 3/12){also cisterns with bell		precedence)}
	siphons in combination with flushing valves}	1/32	Arrangement of inlet valves (devices for reducing
1/141	• • • {in cisterns with tube siphons and with tube		noise E03D 9/14 {; noise-reducing means
	siphons in combination with flushing valves}		E03D 11/00})

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1/33	Adaptations or arrangements of floats (actuating-	5/08	directly by the foot {combined with devices for
1/33	floats in general F16K 33/00)	3/08	opening or closing shutters in the bowl outlet and/
1/34	Flushing valves for outlets; Arrangement of outlet		or with devices for raising or lowering seat and
	valves		cover and/or for swiveling the bowl}
1/35	Flushing valves having buoyancy	5/09	directly by the hand
1/36	Associated working of inlet and outlet valves	5/092	• • • the flushing element, e.g. siphon bell, being
1/38	 Adaptations or arrangements of flushing 		actuated through a lever
	pipes (noise-absorbing means in pipe systems	5/094	the flushing element, e.g. siphon bell, being
	<u>F16L 55/00</u> {; noise-reducing means in the flushing mechanism not in combination with flushing valves	5/10	actuated through a cable, chain or the like • operated electrically (E03D 5/01, E03D 5/12 take
	E03D 11/00; provisions in the flushing pipe for	3/10	precedence), {e.g. by a photo-cell; also combined
	evacuating leakage water from the cistern})		with devices for opening or closing shutters in
2/00			the bowl outlet and/or with devices for raising/or
3/00	Flushing devices operated by pressure of the water supply system {flushing valves not connected to the		lowering seat and cover and/or for swiveling the
	water-supply main, also if air is blown in the water	5/105	bowl}
	seal for a quick flushing}	5/105	• {touchless, e.g. using sensors}
3/02	 Self-closing flushing valves (self-closing valves in 	5/12	 discharging periodically (high-level cisterns for periodical discharge <u>E03D 1/16</u>)
	general <u>F16K 21/04</u>)		
3/04	with piston valve and pressure chamber for	7/00	Wheeled lavatories (wheeled closets without
2/06	retarding the valve-closing movement		flushing A47K 11/00; construction of land vehicles
3/06	• • with diaphragm valve and pressure chamber for		<u>B62</u>)
3/08	retarding the valve-closing movement • with other retarding devices	9/00	Sanitary or other accessories for lavatories (hand
3/10	Flushing devices with pressure-operated reservoir,		tools for cleaning the toilet bowl A47K 11/10; seats
3/10	e.g. air chamber		or covers for closets A47K 13/00; body supports,
3/12	Flushing devices discharging variable quantities		other than seats for closets <u>A47K 17/02</u> ; devices for preventing contamination of drinking-water pipes
	of water (flushing cisterns discharging variable		E03C 1/10) {; Devices for cleaning or disinfecting
	quantities of water <u>E03D 1/14</u>)		the toilet room or the toilet bowl; Devices for
5/00	Special constructions of flushing devices (in		eliminating smells (cleaning, disinfecting or
	motor vehicles or trailers <u>B60R 15/00</u> ; in railway		deodorising the seat A47K 13/30)}
	carriages <u>B61D 35/00</u> ; in ships <u>B63B 29/14</u> ; in	9/002	• {Automatic cleaning devices}
	aircraft <u>B64D 11/02</u>), {e.g. closed flushing system}	9/005	• {Devices adding disinfecting or deodorising agents
5/003	• {Grey water flushing systems}	9/007	to the bowl } • {Devices for eliminating smells by diffusing
5/006	 {Constructional details of cisterns for using greywater} 	9/007	deodorants in lavatories}
5/01	using flushing pumps	9/02	 Devices adding a disinfecting, deodorising,
5/012	 combined with movable closure elements in the 		or cleaning agent to the water while flushing
	bowl outlet (bowls with closure elements between		(apparatus for disinfection A61L 2/00; treatment of
	bottom or outlet and outlet pipe E03D 11/10)	0.40.00	water in general <u>CO2F</u>)
5/014	with devices for separate removal of liquids and	9/022	• • {consisting of solid substances introduced in the
	solids	2009/024	bowl or the supply line}• {using a solid substance}
5/016	with recirculation of bowl-cleaning fluid	2009/024	• {using a solid substance}• {using a gel-form substance}
5/02	 operated mechanically or hydraulically (E03D 5/01, E03D 5/12 take precedence) (or pneumatically) 	2009/028	• • {using a iquid substance}
	also details such as push buttons, levers and pull-	9/03	consisting of a separate container with an outlet
	card therefor}		through which the agent is introduced into the
5/022	• • {Operating automatically (E03D 5/10 takes		flushing water, e.g. by suction {; Devices for
	precedence)}		agents in direct contact with flushing water}
5/024	• • {Operated hydraulically or pneumatically}	9/031	• • • {Devices connected to or dispensing into the
5/026	• • {Devices preventing overflow or locks inhibiting	0/022	flushing pipe}
	the use of the flushing system (devices preventing overflow of the bowl contents and seals for the	9/032	 . • {Devices connected to or dispensing into the bowl}
	bowl outlet E03D 11/00); Devices preventing	9/033	• • • {Devices placed inside or dispensing into the
	sucking-up of sealing and flushing water}	37,022	cistern}
5/028	• • {Pusher plates and actuating mechanisms for	9/035	{Devices connected to the actuation
	built-in cisterns}		mechanism (E03D 9/036 takes precedence)}
5/04	• directly by the seat or cover {combined with	9/036	• • • {Scoop-like devices}
	devices for opening and closing shutters in the	9/037	{Active dispensers, i.e. comprising a
	bowl outlet and/or with devices for raising and		moving dosing element (<u>E03D 9/035</u> takes
	lowering seat or cover; Raising or lowering seat and/or cover by flushing or by the flushing	9/038	precedence)}• • {Passive dispensers, i.e. without moving
	mechanism}	7/030	• • • {Passive dispensers, i.e. without moving parts}
5/06	• • directly by the door		Parties,

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9/04	 Special arrangement or operation of ventilating 	11/125	• • {Height adjustable bowls}
	devices (ventilating rooms in general <u>F24F</u>)	11/13	 Parts or details of bowls; Special adaptations of
9/05	• ventilating the bowl		pipe joints or couplings for use with bowls {,
9/052	• • using incorporated fans		e.g. provisions in bowl construction preventing
9/06	 Auxiliary chambers with water connection to the 		backflow of waste-water from the bowl in the
	flushing pipe and adapted to receive utensils for		flushing pipe or cistern, provisions for a secondary
	bowl-cleaning, e.g. brushes		flushing, for noise-reducing}
9/08	 Devices in the bowl producing upwardly-directed 	11/135	• • {Supports for bowls}
	sprays; Modifications of the bowl for use with	11/14	Means for connecting the bowl to the wall, e.g. to
	such devices (showers A47K 3/28; bathing devices		a wall outlet
	for special therapeutic or hygienic purposes	11/143	• • • {Mounting frames for toilets and urinals}
	A61H 33/00, for specific parts of the body	11/146	• • • • { with incorporated cistern (wall built-in
	A61H 35/00) {; Bidets; Combinations of bowls with		flushing cisterns, connecting a cistern to the
	urinals or bidets; Hot-air or other devices mounted		wall <u>E03D 1/012</u>)}
	in or on the bowl, urinal or bidet for cleaning or	11/16	• • Means for connecting the bowl to the floor, e.g. to
0.100=	disinfecting}		a floor outlet
9/085	• • {Hand-held spray heads for bidet use or for	11/17	• • Means for connecting the bowl to the flushing
	cleaning the bowl}		pipe
9/10	• Waste-disintegrating apparatus combined with the	11/18	• Siphons (for pipes in general <u>F16L 43/00</u> ,
	bowl {(special flushing devices <u>E03D 5/00</u>)}		<u>F16L 45/00</u> {; if as part of the bowl <u>E03D 11/02</u> ;
9/12	 Means to prevent freezing of lavatories 		connecting the siphon to the bowl})
9/14	Noise-reducing means combined with flushing	13/00	Urinals (without flushing devices A47K 11/00) {;
	valves (noise-absorbing means in pipe systems	15/00	Means for connecting the urinal to the flushing
	F16L 55/00 {; if not in combination with flushing		pipe and the wastepipe; Splashing shields for
	valves E03D 11/00; noise-reducing means in valves		urinals}
0/16	in general $F16K 47/00$ })	13/002	• {intended for use by women}
9/16	• Water pressure regulating means in flushing pipes	13/005	• {Accessories specially adapted for urinals}
11/00	Other component parts of water-closets (pipe-	13/007	• {Waterless or low-flush urinals; Accessories
	joints or couplings in general <u>F16L</u>){, e.g. noise-	-2,	therefor (siphons E03C 1/281)}
	reducing means in the flushing system (noise-		
	reducing means in combination with flushing valves	2201/00	Details and methods of use for water closets and
	E03D 9/14), flushing pipes mounted in the bowl,		urinals not otherwise provided for
	seals for the bowl outlet, devices preventing	2201/20	Noise reduction features
	overflow of the bowl contents; devices forming	2201/30	Water injection in siphon for enhancing flushing
	a water seal in the bowl after flushing, devices	2201/40	Devices for distribution of flush water inside the
	eliminating obstructions in the bowl outlet or		bowl
	preventing backflow of water and excrements from the waterpipe}		
11/02			
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 <u>E03D 9/08</u> ; 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 <u>E03D 11/13</u>)}		
11/025	• • {Combined with wash-basins, urinals, flushing		
	devices for chamber-pots, bed-pans, or the like}		
11/04	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 swiveling or sliding movement of		

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actuated by the swiveling or sliding movement of

the bowl}