SECTION E — FIXED CONSTRUCTIONS

E03 WATER SUPPLY; SEWERAGE

E03B INSTALLATIONS OR METHODS FOR OBTAINING, COLLECTING, OR DISTRIBUTING WATER (drilling wells, obtaining fluids in general from wells E21B; pipe-line systems in general F17D)

0 1 1		. 1	
Subcl	ass	าทส	PΧ
<u>Jube</u>	LUCUU	1110	1021

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Subclass	index		
LAYOU	Γ		1/00, 5/00
METHO!	DS		1/00, 3/00, 9/00
	LATIONS		· · · · · · · · · · · · · · · · · · ·
PIPE SY	STEMS; TANKS		7/00, 11/00
4 /00		2 /22	
1/00	Methods or layout of installations for water supply (E03B 3/00, E03B 9/00 take precedence) [1, 4, 2006.01]	3/32	 with artificial enrichment, e.g. by adding water from a pond or a river [1, 2006.01]
1/02	 for public or like main supply [1, 2006.01] 	3/34	• of underground water [1, 2006.01]
1/02	 for domestic or like local supply [1, 2006.01] 		 of underground water [1, 2006.01] of surface water [1, 2006.01]
1/04	• for domestic of fike local supply [1, 2006.01]	3/36 3/38	
3/00	Methods or installations for obtaining or collecting	3/30	• Curbs for springs [1, 2006.01]
	drinking water or tap water (treatment of water	3/40	 Other devices for confining, e.g. trenches, drainage [1, 2006.01]
	C02F) [1, 4, 2006.01]		dramage [1, 2000.01]
3/02	• from rain-water [1, 2006.01]	5/00	Use of pumping plants or installations; Layouts
3/03	 Special vessels for collecting or storing rain-water 		thereof (pumps, pumping plants or installations per se,
	for use in the household, e.g. water-		F04) [1, 2006.01]
	butts [1, 2006.01]	5/02	 arranged in buildings [1, 2006.01]
3/04	• from surface water [1, 2006.01]	5/04	 arranged in wells [1, 2006.01]
3/06	 from underground [1, 2006.01] 	5/06	 Special equipment [1, 2006.01]
3/08	 Obtaining and confining water by means of wells 	5 /00	T.7.
	(applicable to a combination of water and other	7/00	Water main or service pipe systems (pipes or tubes in general F16L) [1, 2006.01]
	liquids or to other liquids only E21B 43/00) [1, 2006.01]	7/02	 Public or like main pipe systems [1, 2006.01]
3/10	·	7/02	·
3/10	• by means of pit wells [1, 2006.01]• in combination with tubes, e.g. perforated,	//04	 Domestic or like local pipe systems (domestic plumbing E03C 1/02) [1, 2006.01]
3/11	extending horizontally, or upwardly inclined,	7/07	 Arrangement of devices, e.g. filters, flow controls,
	exterior to the pits [1, 2006.01]	7707	measuring devices, siphons, valves, in the pipe
3/12	• • • by means of vertical pipe wells [1, 2006.01]		systems (devices per se, see the relevant classes for
3/14	• • by means of horizontal or oblique		these devices) [1, 2006.01]
	wells [1, 2006.01]	7/08	• • Arrangement of draining devices (draining devices
3/15	 Keeping wells in good condition, e.g. by 		in general F16K, F16L) [1, 2006.01]
	cleaning, repairing, regenerating; Maintaining	7/09	 Component parts or accessories (tools for cleaning
	or enlarging the capacity of wells or water-		pipes B08B 9/02; devices for preventing
	bearing layers (with artificial enrichment		contamination of drinking water pipes for domestic
5/46	E03B 3/32) [1, 2006.01]		use E03C 1/10; devices for preventing damage in case of bursts of pipes F16L; heating of pipes in
3/16	• • Component parts of wells [1, 2006.01]		general F16L 53/00) [1, 2006.01]
3/18	• • • Well filters (filters in general B01D 24/00-	7/10	 Devices preventing bursting of pipes by freezing
2/20	B01D 35/00) [1, 2006.01]	,,10	(devices preventing bursting of pipes in general
3/20 3/22	• • • • of elements of special shape [1, 2006.01]• • • • • Selection of specified		F16L 55/00) [1, 2006.01]
3122	materials [1, 2006.01]	7/12	• • • by preventing freezing [1, 2006.01]
3/24	• • • • • formed of loose materials, e.g.	7/14	• • Devices for thawing frozen pipes [1, 2006.01]
5,24	gravel [1, 2006.01]		
3/26	• • • • • with packed filtering	9/00	Methods or installations for drawing-off water

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9/04

(domestic water-drawing devices E03C; taps or valves

• Hydrants; Arrangement of valves therein; Keys for

per se F16K) [1, 4, 2006.01]

hydrants [1, 2006.01]

• • Column hydrants [1, 2006.01]

• from humid air (condensing of vapours in general

B01D 5/00; dehumidification of air for air-

conditioning F24F 3/14) [1, 2006.01]

• from snow or ice [1, 4, 2006.01]

material **[1, 2006.01]**

9/06 • • • Covers [1, 2006.01] 9/08 • • Underground hydrants [1, 2006.01] 9/10 • • Protective plates or covers [1, 2006.01] 9/12 • • Stand-pipes [1, 2006.01] 9/14 • • Draining devices for hydrants [1, 2006.01] 9/16 • • Devices for retaining foreign matter, e.g. sand [1, 2006.01] 9/18 • • Cleaning tools for hydrants [1, 2006.01] 9/20 • • Pillar fountains or like apparatus for dispensing drinking water [1, 2006.01]	11/00 11/02 11/04 11/06 11/08 11/10 11/12 11/14 11/16	Arrangements or adaptations of tanks for water supply (water-butts E03B 3/03; storage aspects B65D, B65G, F17B, F17C; foundations E02D 27/38; construction or assembling of bulk storage containers employing civil engineering techniques E04H 7/00; tower aspects E04H 12/00) [1, 2006.01] • for domestic or like local water supply [1, 2006.01] • without air regulator [1, 2006.01] • with air regulators [1, 2006.01] • of public or like main water supply [1, 2006.01] • of high-level tanks [1, 2006.01] • Adaptations of devices for putting pumping plants in and out of operation, e.g. automatic control devices [1, 2006.01]
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E03C DOMESTIC PLUMBING INSTALLATIONS FOR FRESH WATER OR WASTE WATER (not connected to either water-supply main or to waste pipe A47K; devices of the kind used in the ground E03B, E03F); **SINKS**

1/00 Domestic plumbing installations for fresh water or waste water; Sinks [1, 2006.01]	1/18 • • Sinks, whether or not connected to the waste-pipe [1, 2006.01]
1/01 • for combinations of baths, showers, sinks, wash-basins, closets, urinals, or the like [1, 2006.01]	1/181 • • • Anti-splash devices in sinks (jet regulators E03C 1/08) [1, 2006.01]
1/02 • Plumbing installations for fresh water [1, 2006.01]	1/182 • • • connected to the waste pipe [1, 2006.01]
 1/04 • Water-basin installations specially adapted to wash-basins or baths (valves, faucets, mixing valves, taps F16K) [1, 2006.01] 1/042 • • Arrangements on taps for wash-basins or baths 	1/184 • • • • adapted for attachment of washing machines or heating or cooling devices (washing machines for attachment D06F 7/00) [1, 2006.01]
for connecting to the wall [1, 2006.01]	1/186 • • • Separate partition walls, lids, protecting borders, or the like, for sinks [1, 2006.01]
 having a heating or cooling apparatus in the supply line (water heaters, e.g. with continuous flow, F24H) [1, 2006.01] 	1/20 • Connecting baths or bidets to the waste pipe [1, 2006.01]
1/046 • • • Adding soap, disinfectant, or the like, in the supply line (preventing contamination of	1/22 • Outlet devices mounted in basins, baths, or sinks (stoppers A47K 1/14) [1, 2006.01]
drinking-water pipes E03C 1/10) [1, 2006.01] 1/048 • • • supplying water through two or more openings	1/23 • • • with mechanical closure mechanisms [1, 2006.01]
around or along one side of the waterbasin [1, 2006.01]	1/232 • • • combined with overflow devices (overflow devices for basins or baths <u>per se</u>
 Arrangements of devices on wash-basins, baths, sinks, or the like, for remote control of taps (remote control of taps or the like, per se 	E03C 1/24) [1, 2006.01] 1/24 • Overflow devices for basins or baths (E03C 1/232 takes precedence) [1, 2006.01]
F16K) [1, 2006.01] 1/06 • Devices for suspending or supporting the supply	1/242 • • • automatically actuating supply or draining valves [1, 2006.01]
pipe or supply hose of a shower-bath [1, 2006.01] 1/08 • Jet regulators, e.g. anti-splash devices [1, 2006.01]	1/244 • • • Separate devices to be placed on the outlet opening [1, 2006.01]
1/084 • • • Jet regulators with aerating means [1, 2006.01]	1/26 • • Object-catching inserts or similar devices for
1/086 • • • Jet regulators or jet guides, easily mountable on the outlet of taps [1, 2006.01]	waste pipes or outlets (E03C 1/28 takes precedence) [1, 2006.01]
1/10 • • Devices for preventing contamination of drinking-	1/262 • • • combined with outlet stoppers [1, 2006.01]
water pipes, e.g. means for aerating self-closing flushing valves (vacuum-breakers in general	1/264 • • • Separate sieves or similar object-catching inserts [1, 2006.01]
F16K, F16L) [1, 2006.01] 1/12 • Plumbing installations for waste water; Basins or fountains connected thereto (drainage devices in	 1/266 • • • Arrangement of disintegrating apparatus in waste pipes or outlets; Disintegrating apparatus specially adapted for installation in waste pipes
floors E03F 5/04); Sinks [1, 2006.01]	or outlets [1, 2006.01]
1/122 • Pipe-line systems for waste water in buildings	1/28 • • Odour seals [1, 2006.01]
(pipe-line systems in general F17D) [1, 2006.01]	1/282 • • • combined with additional object-catching
1/126 • • Installations for disinfecting or deodorising wastewater plumbing installations [1, 2006.01]	devices [1, 2006.01]
1/14 • • Wash-basins connected to the waste	1/284 • • • having U-shaped trap [1, 2006.01]
pipe [1, 2006.01]	1/286 • • • having hand-operated valves against return of waste water [1, 2006.01]
1/16 • • Wash-fountains connected to the waste	1/288 • • • having non-return valves against return of

waste water (E03C 1/286 takes precedence) [1, 2006.01]

pipe **[1, 2006.01]**

1/29 • • • having housing containing dividing wall, e.g. tubular [1, 2006.01]	1/304 • • • using fluid under pressure [1, 2006.01] 1/306 • • • by means of a tube connected to the water
1/292 • • • having elastic housing [1, 2006.01]	mains [1, 2006.01]
1/294 • • • with provisions against loss of water	1/308 • • • by means of a pumping device [1, 2006.01]
lock [1, 2006.01]	1/32 • • Holders or supports for basins [1, 2006.01]
1/295 • • • using air-supply valves [1, 2006.01]	1/322 • • • connected to the wall only [1, 2006.01]
1/296 • • • using water-supply valves [1, 2006.01]	1/324 • • • adjustable [1, 2006.01]
1/298 • • consisting only of non-return valve [1, 2006.01]	1/326 • • resting on the floor [1, 2006.01]
1/30 • • Devices to facilitate removing of obstructions in	1/328 • • • adjustable [1, 2006.01]
waste pipes or sinks [1, 2006.01]	1/33 • • • Fastening sinks or basins in an apertured
1/302 • • • using devices moved through the pipes [1, 2006.01]	support [1, 2006.01]

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

E03D	WATER-CLOSETS OR URINALS WITH FLUSHING DI	EVICES; F	LUSHING VALVES THEREFOR
Subclass	index		
WATER-C Gener Specia ACCESSO	CLOSETS, FLUSHING DEVICES al structure		5/00, 7/00 9/00, 11/00
1/00 1/01	Water flushing devices with cisterns [1, 2006.01] • Shape or selection of material for flushing	1/32	 • Arrangement of inlet valves (devices for reducing noise E03D 9/14) [1, 2006.01]
1/012	cisterns [1, 2006.01] • Details of shape of cisterns, e.g. for connecting to	1/33	 Adaptations or arrangements of floats (actuating- floats in general F16K 33/00) [1, 2006.01]
17012	wall, for supporting or connecting flushing-device actuators [1, 2006.01]	1/34	• • Flushing valves for outlets; Arrangement of outlet valves [1, 2006.01]
1/02	 High-level flushing systems [1, 2006.01] 	1/35	• • • Flushing valves having buoyancy [2, 2006.01]
1/04 1/05	 Cisterns with bell siphons [1, 2006.01] with movable siphon bells [1, 2006.01]	1/36	 Associated working of inlet and outlet valves [1, 2006.01]
1/06 1/07	 Cisterns with tube siphons [1, 2006.01] with movable or deformable siphon tubes [1, 2006.01] 	1/38	 Adaptations or arrangements of flushing pipes (noise absorbing means in pipe systems F16L 55/00) [1, 2006.01]
1/08	• • • Siphon action initiated by air or water pressure [1, 2006.01]	3/00	Flushing devices operated by pressure of the water supply system [1, 2006.01]
1/10	 • • Siphon action initiated by raising the water level in the cistern, e.g. by means of displacement members [1, 2006.01] 	3/02	• Self-closing flushing valves (self-closing valves in general F16K 21/04) [1, 2006.01]
1/12	 • • • Siphon action initiated by outlet of air [1, 2006.01] 	3/04	 with piston valve and pressure chamber for retarding the valve-closing movement [1, 2006.01
1/14	Cisterns discharging variable quantities of water (twin or multiple flushing cisterns E03D 1/22;	3/06	 with diaphragm valve and pressure chamber for retarding the valve-closing movement [1, 2006.01]
	flushing devices operated by pressure of the water	3/08	 with other retarding devices [1, 2006.01]
	supply system and discharging variable quantities of water E03D 3/12) [1, 2006.01]	3/10	 Flushing devices with pressure-operated reservoir, e.g. air chamber [1, 2006.01]
1/16	• • Cisterns for periodical discharge [1, 2006.01]	3/12	 Flushing devices discharging variable quantities of
1/18	• Cisterns empty when not in action [1, 2006.01]		water (flushing cisterns discharging variable
1/20	Cisterns with tiltably-mounted		quantities of water E03D 1/14) [1, 2006.01]
1/22 1/24	 containers [1, 2006.01] Twin or multiple flushing cisterns [1, 2006.01] Low-level flushing systems [1, 2006.01] 	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
4 /00			DCAD 44/00) [4 D000 04]

B64D 11/02) [1, 2006.01]

- using flushing pumps **[1, 2006.01]** 5/01
- 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) [1, 2006.01]
- 5/014 • with devices for separate removal of liquids and solids [1, 2006.01]
- 5/016 with recirculation of bowl-cleaning fluid [1, 2006.01]
- 5/02 operated mechanically or hydraulically (E03D 5/01, E03D 5/12 take precedence) [1, 2006.01]

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• • Bowl with flushing cistern mounted on the

features of the bowl E03D 11/02-

• Valves for high or low cisterns; Their arrangement

(inlet valves, valves in general F16K) [1, 2006.01]

E03D 11/12) [1, 2006.01]

• • Bowl integral with the flushing

cistern [1, 2006.01]

rearwardly extending end of the bowl (shape or

material of the cistern E03D 1/01; constructional

5/04	 directly by the seat or cover [1, 2006.01] 	9/10	 Waste-disintegrating apparatus combined with the
5/06	 directly by the door [1, 2006.01] 		bowl [1, 2006.01]
5/08	• • directly by foot [1, 2006.01]	9/12	• Means to prevent freezing of lavatories [1, 2006.01]
5/09 5/092	 directly by hand [1, 2006.01] the flushing element, e.g. siphon bell, being actuated through a lever [1, 2006.01] 	9/14	 Noise-reducing means combined with flushing valves (noise-absorbing means in pipe systems F16L 55/00) [1, 2006.01]
5/094	• • the flushing element, e.g. siphon bell, being actuated through a cable, chain, or the	9/16	 Water pressure regulating means in flushing pipes [1, 2006.01]
5/10	like [1, 2006.01] • operated electrically (E03D 5/01, E03D 5/12 take	11/00	Other component parts of water-closets (pipe joints o couplings in general F16L) [1, 2006.01]
5/12	 precedence) [1, 2006.01] discharging periodically (high-level cisterns for periodical discharge E03D 1/16) [1, 2006.01] 	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
7/00	Wheeled lavatories (wheeled closets without flushing		A47K 13/00) [1, 2006.01]
	A47K 11/00; construction of land vehicles B62) [1, 2006.01]	11/04	• • Bowls of flat shape with only slightly inclined bottom [1, 2006.01]
9/00	Sanitary or other accessories for lavatories (hand tools for cleaning the toilet bowl A47K 11/10; seats or	11/06	 Bowls with downwardly-extending flanges [1, 2006.01]
	covers for closets A47K 13/00; body supports, other than seats, for closets A47K 17/02; devices for	11/08	 Bowls with means producing a flushing water swirl [1, 2006.01]
9/02	preventing contamination of drinking-water pipes E03C 1/10) [1, 2006.01] • Devices adding a disinfecting, deodorising or	11/10	 Bowls with closure elements provided between bottom or outlet and the outlet pipe; Bowls with pivotally supported inserts [1, 2006.01]
3702	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) [1, 2006.01]	11/11	 Bowls combined with a reservoir, e.g. containing apparatus for disinfecting or for disintegrating [1, 2006.01]
9/03	 consisting of a separate container with an outlet 	11/12	 Swivel-mounted bowls, e.g. for use in restricted spaces [1, 2006.01]
0/04	through which the agent is introduced into the flushing water, e.g. by suction [1, 2006.01]	11/13	 Parts or details of bowls; Special adaptations of pipe joints or couplings for use with bowls [1, 2, 2006.01]
9/04	 Special arrangement or operation of ventilating devices (ventilating rooms in general F24F) [1, 2006.01] 	11/14	• • Means for connecting the bowl to the wall, e.g. to a wall outlet [2, 2006.01]
9/05	• • ventilating the bowl [1, 2006.01]	11/16	 Means for connecting the bowl to the floor, e.g. to a floor outlet [2, 2006.01]
9/052 9/06	 • using incorporated fans [2, 2006.01] • Auxiliary chambers with water connection to the 	11/17	 Means for connecting the bowl to the flushing pipe [2, 2006.01]
0./00	flushing pipe and adapted to receive utensils for bowl-cleaning, e.g. brushes [1, 2006.01]	11/18	• Siphons (for pipes in general F16L 43/00, F16L 45/00) [1, 2006.01]
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) [1, 2006.01] 	13/00	Urinals (without flushing devices A47K 11/00) [1, 2006.01]
E 03F	SEWERS; CESSPOOLS		
Subclass			
	DLS.		
コニッショモしハ	/LU		

SEWERS	1/00-9	/00
CESSPOOLS	1/00,	7/0

1/00 Methods, systems, or installations for draining-off sewage or storm water [1, 2006.01]

3/00 Sewer pipe-line systems [1, 2006.01]

- 3/02 Arrangement of sewer pipe-lines or pipe-line systems [1, 2006.01]
- 3/04 • Pipes or fittings specially adapted to sewers (manufacture of concrete tubes B28; pipes or pipe fittings in general F16L) [1, 2006.01]
- Methods of, or installations for, laying sewer pipes 3/06 (making pipes in situ F16L 1/038) [1, 6, 2006.01]

5/00 Sewerage structures [1, 2006.01]

- 5/02 Manhole shafts or other inspection chambers (in general E02D 29/12); Snow-filling openings; Accessories (covers or frames for manholes or the like E02D 29/14) [1, 2006.01]
- 5/04 Gullies with or without odour seals or sediment traps [1, 2006.01]
- 5/042 Arrangements of means against overflow of water, backing-up from the drain [1, 2006.01]
- 5/046 • adapted to be used with kerbs (E03F 5/06 takes precedence) [1, 2006.01]

- 5/06 • Gully gratings [1, 2006.01]
- 5/08 Ventilation of sewers [1, 2006.01]
- 5/10 Collecting-tanks; Equalising-tanks for regulating the run-off; Laying-up basins [1, 2006.01]
- 5/12 Emergency outlets [1, 2006.01]
- Devices for separating liquid or solid substances from sewage, e.g. sand or sludge traps, rakes or grates (for use in sewage purification plants or both in sewage purification plants or in sewer systems B01D, C02F) [1, 2006.01]
- 5/16 Devices for separating oil, water, or grease from sewage in drains leading to the main sewer [1, 2006.01]
- Tanks for disinfecting, neutralising, or cooling sewage (arrangements in tanks as to the biological or chemical aspect C02F) [1, 2006.01]
- 5/20 Siphon pipes or inverted siphons (for connections of baths, basins, or the like E03C 1/12) [1, 2006.01]
- Adaptations of pumping plants for lifting sewage (wheeled apparatus for emptying sewers or cesspools E03F 7/10; pumps, pumping plants, <u>per se</u> F04) [1, 2006.01]
- Installations for neutralising explosions in sewers [1, 2006.01]

- 5/26 Installations for stirring-up sewage [1, 2006.01]
- 7/00 Other installations or implements for operating sewer systems, e.g. for preventing or indicating stoppage; Emptying cesspools [1, 2006.01]
- 7/02 Shut-off devices (in general F16K) [1, 2006.01]
- 7/04 • Valves for preventing return flow **[1, 2006.01]**
- 7/06 Devices for restraining rats or other animals [1, 2006.01]
- Hand implements for emptying sewers or cesspools [1, 2006.01]
- 7/10 Wheeled apparatus for emptying sewers or cesspools [1, 2006.01]
- 7/12 Installations enabling inspection personnel to drive along sewer canals [1, 2006.01]
- 9/00 Arrangements or fixed installations for cleaning sewer pipes, e.g. by flushing (sediment traps, rakes, screens, or the like, arranged in sewer lines E03F 5/14; cleaning pipes in general, devices for cleaning pipes B08B 9/02) [1, 2006.01]
- **11/00 Cesspools** (emptying cesspools E03F 7/00; features relating to treatment of sewage C02F) **[1, 2006.01]**

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