SECTION E — FIXED CONSTRUCTIONS

WATER SUPPLY; SEWERAGE E03

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

Subclass index

LAYOUT	1/00, 5/00
METHODS	
INSTALLATIONS	3/00. 5/00. 9/00
PIPE SYSTEMS; TANKS	, ,

<u>ubclass</u>	<u>index</u>		
AYOUT			1/00, 5/00
IETHO!	DS		1/00, 3/00, 9/00
NSTALI	LATIONS		3/00, 5/00, 9/00
IPE SY	STEMS; TANKS		7/00, 11/00
1/00	Methods or layout of installations for water supply	3/40	Other devices for confining, e.g. trenches, drainage
	(E03B 3/00, E03B 9/00 take precedence) [4]		
1/02	for public or like main supply	5/00	Use of pumping plants or installations; Layouts
1/04	for domestic or like local supply		thereof (pumps, pumping plants or installations <u>per se,</u> F04)
3/00	Methods or installations for obtaining or collecting	5/02	 arranged in buildings
	drinking water or tap water (treatment of water	5/04	 arranged in wells
	C02F) [4]	5/06	Special equipment
3/02	 from rain-water 		
3/03	 Special vessels for collecting or storing rain-water for use in the household, e.g. water-butts 	7/00	Water main or service pipe systems (pipes or tubes in general F16L)
3/04	from surface water	7/02	 Public or like main pipe systems
3/06	from underground	7/04	 Domestic or like local pipe systems (domestic
3/08	 Obtaining and confining water by means of wells 		plumbing E03C 1/02)
	(applicable to a combination of water and other	7/07	 Arrangement of devices, e.g. filters, flow controls,
	liquids or to other liquids only E21B 43/00)		measuring devices, siphons, valves, in the pipe
3/10	• • by means of pit wells		systems (devices <u>per se</u> , <u>see</u> the relevant classes for
3/11	• • • in combination with tubes, e.g. perforated,	7,00	these devices)
	extending horizontally, or upwardly inclined,	7/08	 Arrangement of draining devices (draining devices in general F16K, F16L)
2/12	exterior to the pits • • by means of vertical pipe wells	7/09	 Component parts or accessories (tools for cleaning
3/12	by means of vertical pipe wellsby means of horizontal or oblique wells		pipes B08B 9/02; devices for preventing
3/14	•		contamination of drinking water pipes for domestic
3/15	Keeping wells in good condition, e.g. by cleaning, repairing, regenerating; Maintaining or enlarging the capacity of wells or water-		use E03C 1/10; devices for preventing damage in case of bursts of pipes F16L; heating of pipes in general F16L 53/00)
	bearing layers (with artificial enrichment E03B 3/32)	7/10	 Devices preventing bursting of pipes by freezing
3/16	• • Component parts of wells		(devices preventing bursting of pipes in general F16L 55/00)

3/03	for use in the household, e.g. water-butts	general F16L)
3/04	_	7/02 • Public or like main pipe systems
3/06	• from underground	 7/04 • Domestic or like local pipe systems (domestic plumbing E03C 1/02)
3/08	(applicable to a combination of water and other liquids or to other liquids only E21B 43/00)	 Arrangement of devices, e.g. filters, flow controls, measuring devices, siphons, valves, in the pipe
3/10		systems (devices <u>per se</u> , <u>see</u> the relevant classes for these devices)
3/11	• • • in combination with tubes, e.g. perforated, extending horizontally, or upwardly inclined, exterior to the pits	 7/08 • Arrangement of draining devices (draining devices in general F16K, F16L)
3/12		7/09 • Component parts or accessories (tools for cleaning
3/14		pipes B08B 9/02; devices for preventing
3/15	 • • • Keeping wells in good condition, e.g. by cleaning, repairing, regenerating; Maintaining or enlarging the capacity of wells or water- 	contamination of drinking water pipes for domestic use E03C 1/10; devices for preventing damage in case of bursts of pipes F16L; heating of pipes in general F16L 53/00)
D /4.0	bearing layers (with artificial enrichment E03B 3/32)	7/10 • Devices preventing bursting of pipes by freezing (devices preventing bursting of pipes in general
3/16		F16L 55/00)
3/18	8 • • • • Well filters (filters in general B01D 24/00-B01D 35/00)	7/12 • • • by preventing freezing
3/20	•	7/14 • • Devices for thawing frozen pipes
3/22	• • • • • • Selection of specified materials	9/00 Methods or installations for drawing-off water
3/24	• • • • formed of loose materials, e.g. gravel	(domestic water-drawing devices E03C; taps or valves
3/26	• • • • • with packed filtering material	<u>per se</u> F16K) [4]
3/28	 from humid air (condensing of vapours in general B01D 5/00; dehumidification of air for air- 	 9/02 • Hydrants; Arrangement of valves therein; Keys for hydrants
	conditioning F24F 3/14)	9/04 • • Column hydrants
3/30		9/06 • • • Covers
3/32	with artificial enrichment, e.g. by adding water from	9/08 • • Underground hydrants
	a pond or a river	9/10 • • • Protective plates or covers
3/34	9	9/12 • • • Stand-pipes
3/36		9/14 • • Draining devices for hydrants
3/38	Curbs for springs	9/16 • • Devices for retaining foreign matter, e.g. sand

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9/18	• • Cleaning tools for hydrants	• for domestic or like local water supply
9/20	• • Pillar fountains or like apparatus for dispensing	11/04 • • without air regulator
	drinking water	11/06 • • with air regulator
11/00	Assessments on adventations of touler form anton	11/08 • • • Air regulators
11/00	Arrangements or adaptations of tanks for water supply (water-butts E03B 3/03; storage aspects B65D,	11/10 • for public or like main water supply
	B65G, F17B, F17C; foundations E02D 27/38;	11/12 • • of high-level tanks
	construction or assembling of bulk storage containers	11/14 • • of underground tanks
	employing civil engineering techniques E04H 7/00; tower aspects E04H 12/00)	• • Adaptations of devices for putting pumping plants in and out of operation, e.g. automatic control devices
E03C	DOMESTIC PLUMBING INSTALLATIONS FOR FR supply main or to waste pipe A47K; devices of the kind used	ESH WATER OR WASTE WATER (not connected to either water-in the ground E03B, E03F); SINKS
1/00	Domestic plumbing installations for fresh water or waste water; Sinks	1/22 • • Outlet devices mounted in basins, baths, or sinks (stoppers A47K 1/14)
1/01	for combinations of baths, showers, sinks, wash-	1/23 • • with mechanical closure mechanisms
	basins, closets, urinals, or the like	1/232 • • • combined with overflow devices (overflow
1/02	 Plumbing installations for fresh water 	devices for basins or baths per se
1/04	 Water-basin installations specially adapted to 	E03C 1/24)
	wash-basins or baths (valves, faucets, mixing valves, taps $F16K$)	1/24 • • Overflow devices for basins or baths (E03C 1/232 takes precedence)
1/042	• • Arrangements on taps for wash-basins or baths for connecting to the wall	1/242 • • • automatically actuating supply or draining valves
1/044	 having a heating or cooling apparatus in the supply line (water heaters, e.g. with continuous 	1/244 • • Separate devices to be placed on the outlet opening
	flow, F24H)	1/26 • • Object-catching inserts or similar devices for
1/046	• • Adding soap, disinfectant, or the like, in the	waste pipes or outlets (E03C 1/28 takes
	supply line (preventing contamination of	precedence)
1 /0 40	drinking-water pipes E03C 1/10)	1/262 • • • combined with outlet stoppers
1/048	• • supplying water through two or more openings around or along one side of the water-basin	1/264 • • • Separate sieves or similar object-catching inserts
1/05	Arrangements of devices on wash-basins, baths, sinks, or the like, for remote control of taps	1/266 • • • Arrangement of disintegrating apparatus in waste pipes or outlets; Disintegrating apparatus
1./00	(remote control of taps or the like, <u>per se</u> F16K)	specially adapted for installation in waste pipes
1/06	 Devices for suspending or supporting the supply pipe or supply hose of a shower-bath 	or outlets 1/28 • • Odour seals
1/08	Jet regulators, e.g. anti-splash devices	1/282 • • • combined with additional object-catching
1/084	• Jet regulators with aerating means	devices
1/086	• • Jet regulators or jet guides, easily mountable on	1/284 • • having U-shaped trap
	the outlet of taps	1/286 • • • having hand-operated valves against return
1/10	 Devices for preventing contamination of drinking- 	of waste water
	water pipes, e.g. means for aerating self-closing flushing valves (vacuum-breakers in general	1/288 • • • having non-return valves against return of waste water (E03C 1/286 takes precedence)
	F16K, F16L)	1/29 • • having housing containing dividing wall, e.g.
1/12	Plumbing installations for waste water; Basins or fountains connected thereto (drainage devices in	tubular
	fountains connected thereto (drainage devices in floors E03F 5/04); Sinks	1/292 • • • having elastic housing
1/122	Pipe-line systems for waste water in buildings	1/294 • • • with provisions against loss of water lock
1,122	(pipe-line systems in general F17D)	1/295 • • • using air-supply valves
1/126	Installations for disinfecting or deodorising waste-	1/296 • • • using water-supply valves
	water plumbing installations	1/298 • • • consisting only of non-return valve
1/14	 Wash-basins connected to the waste pipe 	 1/30 • Devices to facilitate removing of obstructions in waste pipes or sinks
1/16	 Wash-fountains connected to the waste pipe 	1/302 • • using devices moved through the pipes
1/18	 Sinks, whether or not connected to the waste-pipe 	1/304 • • using fluid under pressure
1/181	• • • Anti-splash devices in sinks (jet regulators E03C 1/08)	1/306 • • • by means of a tube connected to the water mains
1/182	1 1	1/308 • • • by means of a pumping device
1/184	• • • adapted for attachment of washing machines	1/32 • Holders or supports for basins
	or heating or cooling devices (washing	1/32 • • • connected to the wall only
1/100	machines for attachment D06F 7/00)	1/324 • • • adjustable
1/186	 • Separate partition walls, lids, protecting borders, or the like, for sinks 	1/326 • • resting on the floor
1/20	Connecting baths or bidets to the waste pipe	1/328 • • • adjustable
1/20	Connecting baths of blacts to the waste hipe	

2

support

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

Subclass index

3/02

3/04

3/06

Specia	al structureal constructions		5/00, 7/00
	ORIES, COMPONENT PARTSS		
1/00	Water flushing devices with cisterns	3/08	with other retarding device
1/01	Shape or selection of material for flushing cisterns	3/10	 Flushing devices with pressur e.g. air chamber
1/012	 Details of shape of cisterns, e.g. for connecting to wall, for supporting or connecting flushing-device actuators 	3/12	 Flushing devices discharging water (flushing cisterns disch
1/02	High-level flushing systems		quantities of water E03D 1/14
1/04	Cisterns with bell siphons		
1/05	• • with movable siphon bells	5/00	Special constructions of flushin
1/06	Cisterns with tube siphons		vehicles or trailers B60R 15/00;
1/07	• • with movable or deformable siphon tubes		B61D 35/00; in ships B63B 29/1 B64D 11/02)
1/08	Siphon action initiated by air or water pressure	5/01	 using flushing pumps
1/10	Siphon action initiated by raising the water	5/012	 combined with movable closs
_, _,	level in the cistern, e.g. by means of displacement members	5/012	outlet (bowls with closure ele or outlet and outlet pipe E03I
1/12	 • • Siphon action initiated by outlet of air 	5/014	 with devices for separate r
1/14	 Cisterns discharging variable quantities of water 		solids
	(twin or multiple flushing cisterns E03D 1/22;	5/016	 with recirculation of bowl-cle
	flushing devices operated by pressure of the water	5/02	 operated mechanically or hyd
	supply system and discharging variable quantities		E03D 5/12 take precedence)
1/16	of water E03D 3/12)	5/04	 directly by the seat or cover
1/16 1/18	Cisterns for periodical dischargeCisterns empty when not in action	5/06	 directly by the door
1/10		5/08	 directly by foot
1/20	Cisterns with tiltably-mounted containers Tryin or multiple flushing cictorses	5/09	 directly by hand
1/24	 Twin or multiple flushing cisterns Low-level flushing systems	5/092	• • • the flushing element, e.
1/24	Bowl with flushing cistern mounted on the		actuated through a lever
1/20	rearwardly extending end of the bowl (shape or	5/094	• • the flushing element, e.
	material of the cistern E03D 1/01; constructional	= / / 0	actuated through a cable
	features of the bowl E03D 11/02-E03D 11/12)	5/10	• operated electrically (E03D 5
1/28	Bowl integral with the flushing cistern	F/10	precedence)discharging periodically (high
1/30	 Valves for high or low cisterns; Their arrangement 	5/12	periodical discharge E03D 1/
	(inlet valves, valves in general F16K)		periodical discharge 2000 1/
1/32	 Arrangement of inlet valves (devices for reducing noise E03D 9/14) 	7/00	Wheeled lavatories (wheeled characteristics) A47K 11/00; construction of land
1/33	Adaptations or arrangements of floats (actuating-	0./00	Contract to the contract to the
	floats in general F16K 33/00)	9/00	Sanitary or other accessories f
1/34	Flushing valves for outlets; Arrangement of outlet		tools for cleaning the toilet bowledges for closets A47K 13/00; l
1/25	valves		than seats, for closets A47K 17/0
1/35	Flushing valves having buoyancy [2] Accorded working of inlet and outlet valves.		preventing contamination of drin
1/36	Advantations or arrangements of flushing pines (poise)		E03C 1/10)
1/38	 Adaptations or arrangements of flushing pipes (noise- absorbing means in pipe systems F16L 55/00) 	9/02	Devices adding a disinfecting cleaning agent to the water w
3/00	Flushing devices operated by pressure of the water		flushing tank (apparatus for d
	supply system		or objects in general A61L 2/ general C02F)
2/02	Colf placing fleebing realizes (colf placing realizes in		Scriciai COAL)

· Self-closing flushing valves (self-closing valves in

· with piston valve and pressure chamber for

• • with diaphragm valve and pressure chamber for

retarding the valve-closing movement

retarding the valve-closing movement

general F16K 21/04)

- h other retarding devices
- ng devices with pressure-operated reservoir, chamber
- ng devices discharging variable quantities of (flushing cisterns discharging variable ties of water E03D 1/14)
- constructions of flushing devices (in motor or trailers B60R 15/00; in railway carriages /00; in ships B63B 29/14; in aircraft (02)
- flushing pumps
- ned with movable closure elements in the bowl (bowls with closure elements between bottom let and outlet pipe E03D 11/10)
- h devices for separate removal of liquids and
- ecirculation of bowl-cleaning fluid
- ed mechanically or hydraulically (E03D 5/01, 5/12 take precedence)
- ectly by the seat or cover
- ectly by the door
- ctly by foot
- ectly by hand
- the flushing element, e.g. siphon bell, being actuated through a lever
- the flushing element, e.g. siphon bell, being actuated through a cable, chain, or the like
- ed electrically (E03D 5/01, E03D 5/12 take lence)
- rging periodically (high-level cisterns for lical discharge E03D 1/16)
- lavatories (wheeled closets without flushing /00; construction of land vehicles B62)
- or other accessories for lavatories (hand cleaning the toilet bowl A47K 11/10; seats or r closets A47K 13/00; body supports, other s, for closets A47K 17/02; devices for g contamination of drinking-water pipes
- es adding a disinfecting, deodorising or ng agent to the water while flushing, or in the ng tank (apparatus for disinfection of materials ects 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
- Special arrangement or operation of ventilating 9/04 devices (ventilating rooms in general F24F)
- 9/05 · · ventilating the bowl

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9/052	• • • using incorporated fans [2]	11/04	• • Bowls of flat shape with only slightly inclined
9/06	Auxiliary chambers with water connection to the	44400	bottom
	flushing pipe and adapted to receive utensils for	11/06	Bowls with downwardly-extending flanges
9/08	bowl-cleaning, e.g. brushesDevices in the bowl producing upwardly-directed	11/08	 Bowls with means producing a flushing water swirl
3700	sprays; Modifications of the bowl for use with such	11/10	Bowls with closure elements provided between
	devices (showers A47K 3/28; bathing devices for	11/10	bottom or outlet and the outlet pipe; Bowls with
	special therapeutic or hygienic purposes A61H 33/00,		pivotally supported inserts
	for specific parts of the body A61H 35/00)	11/11	Bowls combined with a reservoir, e.g. containing
9/10	Waste-disintegrating apparatus combined with the		apparatus for disinfecting or for disintegrating
0./40	bowl	11/12	 Swivel-mounted bowls, e.g. for use in restricted
9/12	Means to prevent freezing of lavatories Naise reducing means combined with flushing valves.	44.440	spaces
9/14	 Noise-reducing means combined with flushing valves (noise-absorbing means in pipe systems F16L 55/00) 	11/13	 Parts or details of bowls; Special adaptations of pipe joints or couplings for use with bowls [2]
9/16	Water pressure regulating means in flushing pipes	11/14	 • Means for connecting the bowl to the wall, e.g. to
		11/14	a wall outlet [2]
11/00	Other component parts of water-closets (pipe joints or	11/16	 Means for connecting the bowl to the floor, e.g. to
11 (00	couplings in general F16L)		a floor outlet [2]
11/02	 Water-closet bowls (auxiliary chambers with connections to flushing water for bowl-cleaning 	11/17	 Means for connecting the bowl to the flushing
	utensils E03D 9/06; modified for using upwardly-		pipe [2]
	directed sprays E03D 9/08; seats or covers	11/18	• Siphons (for pipes in general F16L 43/00,
	A47K 13/00)		F16L 45/00)
		13/00	Urinals (without flushing devices A47K 11/00)
E03F	SEWERS; CESSPOOLS		
SEWERS			
SEWERS			
SEWERS CESSPOO	DLS		11/00, 7/00
SEWERS			
SEWERS CESSPOO 1/00	Methods, systems, or installations for draining-off sewage or storm water		Devices for separating oil, water, or grease from sewage in drains leading to the main sewer Tanks for disinfecting, neutralising, or cooling
SEWERS CESSPOO 1/00 3/00	Methods, systems, or installations for draining-off sewage or storm water Sewer pipe-line systems	5/16	Devices for separating oil, water, or grease from sewage in drains leading to the main sewer Tanks for disinfecting, neutralising, or cooling sewage (arrangements in tanks as to the biological or
\$EWERS CESSPOO 1/00 3/00 3/02	Methods, systems, or installations for draining-off sewage or storm water Sewer pipe-line systems • Arrangement of sewer pipe-lines or pipe-line systems	5/16	Devices for separating oil, water, or grease from sewage in drains leading to the main sewer Tanks for disinfecting, neutralising, or cooling sewage (arrangements in tanks as to the biological or chemical aspect C02F)
SEWERS CESSPOO 1/00 3/00	Methods, systems, or installations for draining-off sewage or storm water Sewer pipe-line systems Arrangement of sewer pipe-lines or pipe-line systems Pipes or fittings specially adapted to sewers	5/16	 Devices for separating oil, water, or grease from sewage in drains leading to the main sewer Tanks for disinfecting, neutralising, or cooling sewage (arrangements in tanks as to the biological or chemical aspect C02F) Siphon pipes or inverted siphons (for connections of
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1/00 3/00 3/02 3/04	Methods, systems, or installations for draining-off sewage or storm water Sewer pipe-line systems Arrangement of sewer pipe-lines or pipe-line systems Pipes or fittings specially adapted to sewers (manufacture of concrete tubes B28; pipes or pipe fittings in general F16L)	5/16 5/18 5/20	 Devices for separating oil, water, or grease from sewage in drains leading to the main sewer Tanks for disinfecting, neutralising, or cooling sewage (arrangements in tanks as to the biological or chemical aspect C02F) Siphon pipes or inverted siphons (for connections of baths, basins, or the like E03C 1/12)
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1/00 3/00 3/02 3/04 3/06 5/00	Methods, systems, or installations for draining-off sewage or storm water Sewer pipe-line systems Arrangement of sewer pipe-lines or pipe-line systems Pipes or fittings specially adapted to sewers (manufacture of concrete tubes B28; pipes or pipe fittings in general F16L) Methods of, or installations for, laying sewer pipes (making pipes in situ F16L 1/038) [6] Sewerage structures	5/16 5/18 5/20 5/22	 Devices for separating oil, water, or grease from sewage in drains leading to the main sewer Tanks for disinfecting, neutralising, or cooling sewage (arrangements in tanks as to the biological or chemical aspect C02F) Siphon pipes or inverted siphons (for connections of baths, basins, or the like E03C 1/12) Adaptations of pumping plants for lifting sewage (wheeled apparatus for emptying sewers or cesspools E03F 7/10; pumps, pumping plants, per se F04) Installations for neutralising explosions in sewers Installations for stirring-up sewage
1/00 3/00 3/02 3/04 3/06 5/00 5/02	Methods, systems, or installations for draining-off sewage or storm water Sewer pipe-line systems Arrangement of sewer pipe-lines or pipe-line systems Pipes or fittings specially adapted to sewers (manufacture of concrete tubes B28; pipes or pipe fittings in general F16L) Methods of, or installations for, laying sewer pipes (making pipes in situ F16L 1/038) [6] Sewerage structures 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)	5/16 5/18 5/20 5/22 5/24 5/26	 Devices for separating oil, water, or grease from sewage in drains leading to the main sewer Tanks for disinfecting, neutralising, or cooling sewage (arrangements in tanks as to the biological or chemical aspect C02F) Siphon pipes or inverted siphons (for connections of baths, basins, or the like E03C 1/12) Adaptations of pumping plants for lifting sewage (wheeled apparatus for emptying sewers or cesspools E03F 7/10; pumps, pumping plants, per se F04) Installations for neutralising explosions in sewers Installations for stirring-up sewage
1/00 1/00 3/00 3/04 3/06 5/00 5/02	Methods, systems, or installations for draining-off sewage or storm water Sewer pipe-line systems Arrangement of sewer pipe-lines or pipe-line systems Pipes or fittings specially adapted to sewers (manufacture of concrete tubes B28; pipes or pipe fittings in general F16L) Methods of, or installations for, laying sewer pipes (making pipes in situ F16L 1/038) [6] Sewerage structures 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) Gullies with or without odour seals or sediment traps	5/16 5/18 5/20 5/22 5/24 5/26	 Devices for separating oil, water, or grease from sewage in drains leading to the main sewer Tanks for disinfecting, neutralising, or cooling sewage (arrangements in tanks as to the biological or chemical aspect C02F) Siphon pipes or inverted siphons (for connections of baths, basins, or the like E03C 1/12) Adaptations of pumping plants for lifting sewage (wheeled apparatus for emptying sewers or cesspools E03F 7/10; pumps, pumping plants, per se F04) Installations for neutralising explosions in sewers Installations for stirring-up sewage Other installations or implements for operating sewer systems, e.g. for preventing or indicating
1/00 3/00 3/02 3/04 3/06 5/00 5/02	Methods, systems, or installations for draining-off sewage or storm water Sewer pipe-line systems Arrangement of sewer pipe-lines or pipe-line systems Pipes or fittings specially adapted to sewers (manufacture of concrete tubes B28; pipes or pipe fittings in general F16L) Methods of, or installations for, laying sewer pipes (making pipes in situ F16L 1/038) [6] Sewerage structures 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) Gullies with or without odour seals or sediment traps Arrangements of means against overflow of water,	5/16 5/18 5/20 5/22 5/24 5/26 7/00 7/02 7/04	 Devices for separating oil, water, or grease from sewage in drains leading to the main sewer Tanks for disinfecting, neutralising, or cooling sewage (arrangements in tanks as to the biological or chemical aspect C02F) Siphon pipes or inverted siphons (for connections of baths, basins, or the like E03C 1/12) Adaptations of pumping plants for lifting sewage (wheeled apparatus for emptying sewers or cesspools E03F 7/10; pumps, pumping plants, per se F04) Installations for neutralising explosions in sewers Installations for stirring-up sewage Other installations or implements for operating sewer systems, e.g. for preventing or indicating stoppage; Emptying cesspools Shut-off devices (in general F16K) Valves for preventing return flow
1/00 1/00 3/00 3/02 3/04 3/06 5/00 5/02	Methods, systems, or installations for draining-off sewage or storm water Sewer pipe-line systems Arrangement of sewer pipe-lines or pipe-line systems Pipes or fittings specially adapted to sewers (manufacture of concrete tubes B28; pipes or pipe fittings in general F16L) Methods of, or installations for, laying sewer pipes (making pipes in situ F16L 1/038) [6] Sewerage structures 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) Gullies with or without odour seals or sediment traps Arrangements of means against overflow of water, backing-up from the drain	5/16 5/18 5/20 5/22 5/24 5/26 7/00 7/02 7/04 7/06	 Devices for separating oil, water, or grease from sewage in drains leading to the main sewer Tanks for disinfecting, neutralising, or cooling sewage (arrangements in tanks as to the biological or chemical aspect C02F) Siphon pipes or inverted siphons (for connections of baths, basins, or the like E03C 1/12) Adaptations of pumping plants for lifting sewage (wheeled apparatus for emptying sewers or cesspools E03F 7/10; pumps, pumping plants, per se F04) Installations for neutralising explosions in sewers Installations for stirring-up sewage Other installations or implements for operating sewer systems, e.g. for preventing or indicating stoppage; Emptying cesspools Shut-off devices (in general F16K) Valves for preventing return flow Devices for restraining rats or other animals
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1/00 1/00 3/00 3/02 3/04 3/06 5/00 5/02	Methods, systems, or installations for draining-off sewage or storm water Sewer pipe-line systems Arrangement of sewer pipe-lines or pipe-line systems Pipes or fittings specially adapted to sewers (manufacture of concrete tubes B28; pipes or pipe fittings in general F16L) Methods of, or installations for, laying sewer pipes (making pipes in situ F16L 1/038) [6] Sewerage structures 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) Gullies with or without odour seals or sediment traps Arrangements of means against overflow of water, backing-up from the drain adapted to be used with kerbs (E03F 5/06 takes precedence)	5/16 5/18 5/20 5/22 5/24 5/26 7/00 7/02 7/04 7/06 7/08 7/10	 Devices for separating oil, water, or grease from sewage in drains leading to the main sewer Tanks for disinfecting, neutralising, or cooling sewage (arrangements in tanks as to the biological or chemical aspect CO2F) Siphon pipes or inverted siphons (for connections of baths, basins, or the like E03C 1/12) Adaptations of pumping plants for lifting sewage (wheeled apparatus for emptying sewers or cesspools E03F 7/10; pumps, pumping plants, per se F04) Installations for neutralising explosions in sewers Installations for stirring-up sewage Other installations or implements for operating sewer systems, e.g. for preventing or indicating stoppage; Emptying cesspools Shut-off devices (in general F16K) Valves for preventing return flow Devices for restraining rats or other animals Hand implements for emptying sewers or cesspools Wheeled apparatus for emptying sewers or cesspools
1/00 3/00 3/00 3/02 3/04 3/06 5/00 5/02 5/04 5/042 5/046	Methods, systems, or installations for draining-off sewage or storm water Sewer pipe-line systems Arrangement of sewer pipe-lines or pipe-line systems Pipes or fittings specially adapted to sewers (manufacture of concrete tubes B28; pipes or pipe fittings in general F16L) Methods of, or installations for, laying sewer pipes (making pipes in situ F16L 1/038) [6] Sewerage structures 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) Gullies with or without odour seals or sediment traps Arrangements of means against overflow of water, backing-up from the drain adapted to be used with kerbs (E03F 5/06 takes	5/16 5/18 5/20 5/22 5/24 5/26 7/00 7/02 7/04 7/06 7/08	 Devices for separating oil, water, or grease from sewage in drains leading to the main sewer Tanks for disinfecting, neutralising, or cooling sewage (arrangements in tanks as to the biological or chemical aspect CO2F) Siphon pipes or inverted siphons (for connections of baths, basins, or the like E03C 1/12) Adaptations of pumping plants for lifting sewage (wheeled apparatus for emptying sewers or cesspools E03F 7/10; pumps, pumping plants, per se F04) Installations for neutralising explosions in sewers Installations for stirring-up sewage Other installations or implements for operating sewer systems, e.g. for preventing or indicating stoppage; Emptying cesspools Shut-off devices (in general F16K) Valves for preventing return flow Devices for restraining rats or other animals Hand implements for emptying sewers or cesspools Wheeled apparatus for emptying sewers or cesspools Installations enabling inspection personnel to drive
1/00 3/00 3/00 3/02 3/04 3/06 5/00 5/02 5/04 5/042 5/046 5/06	Methods, systems, or installations for draining-off sewage or storm water Sewer pipe-line systems Arrangement of sewer pipe-lines or pipe-line systems Pipes or fittings specially adapted to sewers (manufacture of concrete tubes B28; pipes or pipe fittings in general F16L) Methods of, or installations for, laying sewer pipes (making pipes in situ F16L 1/038) [6] Sewerage structures 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) Gullies with or without odour seals or sediment traps Arrangements of means against overflow of water, backing-up from the drain adapted to be used with kerbs (E03F 5/06 takes precedence) Gully gratings	5/16 5/18 5/20 5/22 5/24 5/26 7/00 7/02 7/04 7/06 7/08 7/10	 Devices for separating oil, water, or grease from sewage in drains leading to the main sewer Tanks for disinfecting, neutralising, or cooling sewage (arrangements in tanks as to the biological or chemical aspect CO2F) Siphon pipes or inverted siphons (for connections of baths, basins, or the like E03C 1/12) Adaptations of pumping plants for lifting sewage (wheeled apparatus for emptying sewers or cesspools E03F 7/10; pumps, pumping plants, per se F04) Installations for neutralising explosions in sewers Installations for stirring-up sewage Other installations or implements for operating sewer systems, e.g. for preventing or indicating stoppage; Emptying cesspools Shut-off devices (in general F16K) Valves for preventing return flow Devices for restraining rats or other animals Hand implements for emptying sewers or cesspools Wheeled apparatus for emptying sewers or cesspools
3/00 3/00 3/02 3/04 3/06 5/00 5/02 5/04 5/042 5/046 5/06 5/08 5/10	Methods, systems, or installations for draining-off sewage or storm water Sewer pipe-line systems Arrangement of sewer pipe-lines or pipe-line systems Pipes or fittings specially adapted to sewers (manufacture of concrete tubes B28; pipes or pipe fittings in general F16L) Methods of, or installations for, laying sewer pipes (making pipes in situ F16L 1/038) [6] Sewerage structures 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) Gullies with or without odour seals or sediment traps Arrangements of means against overflow of water, backing-up from the drain Arrangements of means against overflow of water, backing-up from the drain adapted to be used with kerbs (E03F 5/06 takes precedence) Gully gratings Ventilation of sewers Collecting-tanks; Equalising-tanks for regulating the run-off; Laying-up basins	5/16 5/18 5/20 5/22 5/24 5/26 7/00 7/02 7/04 7/06 7/08 7/10	 Devices for separating oil, water, or grease from sewage in drains leading to the main sewer Tanks for disinfecting, neutralising, or cooling sewage (arrangements in tanks as to the biological or chemical aspect CO2F) Siphon pipes or inverted siphons (for connections of baths, basins, or the like E03C 1/12) Adaptations of pumping plants for lifting sewage (wheeled apparatus for emptying sewers or cesspools E03F 7/10; pumps, pumping plants, per se F04) Installations for neutralising explosions in sewers Installations for stirring-up sewage Other installations or implements for operating sewer systems, e.g. for preventing or indicating stoppage; Emptying cesspools Shut-off devices (in general F16K) Valves for preventing return flow Devices for restraining rats or other animals Hand implements for emptying sewers or cesspools Wheeled apparatus for emptying sewers or cesspools Installations enabling inspection personnel to drive along sewer canals Arrangements or fixed installations for cleaning
3/00 3/00 3/02 3/04 3/06 5/00 5/02 5/04 5/042 5/046 5/08 5/10 5/12	Methods, systems, or installations for draining-off sewage or storm water Sewer pipe-line systems Arrangement of sewer pipe-lines or pipe-line systems Pipes or fittings specially adapted to sewers (manufacture of concrete tubes B28; pipes or pipe fittings in general F16L) Methods of, or installations for, laying sewer pipes (making pipes in situ F16L 1/038) [6] Sewerage structures 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) Gullies with or without odour seals or sediment traps Arrangements of means against overflow of water, backing-up from the drain Arrangements of means against overflow of water, backing-up from the drain adapted to be used with kerbs (E03F 5/06 takes precedence) Gully gratings Ventilation of sewers Collecting-tanks; Equalising-tanks for regulating the run-off; Laying-up basins Emergency outlets	5/16 5/18 5/20 5/22 5/24 5/26 7/00 7/02 7/04 7/06 7/08 7/10 7/12	 Devices for separating oil, water, or grease from sewage in drains leading to the main sewer Tanks for disinfecting, neutralising, or cooling sewage (arrangements in tanks as to the biological or chemical aspect CO2F) Siphon pipes or inverted siphons (for connections of baths, basins, or the like E03C 1/12) Adaptations of pumping plants for lifting sewage (wheeled apparatus for emptying sewers or cesspools E03F 7/10; pumps, pumping plants, per se F04) Installations for neutralising explosions in sewers Installations for stirring-up sewage Other installations or implements for operating sewer systems, e.g. for preventing or indicating stoppage; Emptying cesspools Shut-off devices (in general F16K) Valves for preventing return flow Devices for restraining rats or other animals Hand implements for emptying sewers or cesspools Wheeled apparatus for emptying sewers or cesspools Installations enabling inspection personnel to drive along sewer canals Arrangements or fixed installations for cleaning sewer pipes, e.g. by flushing (sediment traps, rakes,
3/00 3/00 3/02 3/04 3/06 5/00 5/02 5/04 5/042 5/046 5/06 5/08 5/10	Methods, systems, or installations for draining-off sewage or storm water Sewer pipe-line systems • Arrangement of sewer pipe-lines or pipe-line systems • Pipes or fittings specially adapted to sewers (manufacture of concrete tubes B28; pipes or pipe fittings in general F16L) • Methods of, or installations for, laying sewer pipes (making pipes in situ F16L 1/038) [6] Sewerage structures • 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) • Gullies with or without odour seals or sediment traps • • Arrangements of means against overflow of water, backing-up from the drain • • adapted to be used with kerbs (E03F 5/06 takes precedence) • • Gully gratings • Ventilation of sewers • Collecting-tanks; Equalising-tanks for regulating the run-off; Laying-up basins • Emergency outlets • Devices for separating liquid or solid substances from	5/16 5/18 5/20 5/22 5/24 5/26 7/00 7/02 7/04 7/06 7/08 7/10 7/12	 Devices for separating oil, water, or grease from sewage in drains leading to the main sewer Tanks for disinfecting, neutralising, or cooling sewage (arrangements in tanks as to the biological or chemical aspect CO2F) Siphon pipes or inverted siphons (for connections of baths, basins, or the like E03C 1/12) Adaptations of pumping plants for lifting sewage (wheeled apparatus for emptying sewers or cesspools E03F 7/10; pumps, pumping plants, per se F04) Installations for neutralising explosions in sewers Installations for stirring-up sewage Other installations or implements for operating sewer systems, e.g. for preventing or indicating stoppage; Emptying cesspools Shut-off devices (in general F16K) Valves for preventing return flow Devices for restraining rats or other animals Hand implements for emptying sewers or cesspools Wheeled apparatus for emptying sewers or cesspools Installations enabling inspection personnel to drive along sewer canals 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;
3/00 3/00 3/02 3/04 3/06 5/00 5/02 5/04 5/042 5/046 5/08 5/10 5/12	Methods, systems, or installations for draining-off sewage or storm water Sewer pipe-line systems • Arrangement of sewer pipe-lines or pipe-line systems • Pipes or fittings specially adapted to sewers (manufacture of concrete tubes B28; pipes or pipe fittings in general F16L) • Methods of, or installations for, laying sewer pipes (making pipes in situ F16L 1/038) [6] Sewerage structures • 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) • Gullies with or without odour seals or sediment traps • • Arrangements of means against overflow of water, backing-up from the drain • • adapted to be used with kerbs (E03F 5/06 takes precedence) • • Gully gratings • Ventilation of sewers • Collecting-tanks; Equalising-tanks for regulating the run-off; Laying-up basins • Emergency outlets • Devices for separating liquid or solid substances from sewage, e.g. sand or sludge traps, rakes or grates (for	5/16 5/18 5/20 5/22 5/24 5/26 7/00 7/02 7/04 7/06 7/08 7/10 7/12	 Devices for separating oil, water, or grease from sewage in drains leading to the main sewer Tanks for disinfecting, neutralising, or cooling sewage (arrangements in tanks as to the biological or chemical aspect CO2F) Siphon pipes or inverted siphons (for connections of baths, basins, or the like E03C 1/12) Adaptations of pumping plants for lifting sewage (wheeled apparatus for emptying sewers or cesspools E03F 7/10; pumps, pumping plants, per se F04) Installations for neutralising explosions in sewers Installations for stirring-up sewage Other installations or implements for operating sewer systems, e.g. for preventing or indicating stoppage; Emptying cesspools Shut-off devices (in general F16K) Valves for preventing return flow Devices for restraining rats or other animals Hand implements for emptying sewers or cesspools Wheeled apparatus for emptying sewers or cesspools Installations enabling inspection personnel to drive along sewer canals 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
3/00 3/00 3/02 3/04 3/06 5/00 5/02 5/04 5/042 5/046 5/08 5/10 5/12	Methods, systems, or installations for draining-off sewage or storm water Sewer pipe-line systems • Arrangement of sewer pipe-lines or pipe-line systems • Pipes or fittings specially adapted to sewers (manufacture of concrete tubes B28; pipes or pipe fittings in general F16L) • Methods of, or installations for, laying sewer pipes (making pipes in situ F16L 1/038) [6] Sewerage structures • 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) • Gullies with or without odour seals or sediment traps • • Arrangements of means against overflow of water, backing-up from the drain • • adapted to be used with kerbs (E03F 5/06 takes precedence) • • Gully gratings • Ventilation of sewers • Collecting-tanks; Equalising-tanks for regulating the run-off; Laying-up basins • Emergency outlets • Devices for separating liquid or solid substances from	5/16 5/18 5/20 5/22 5/24 5/26 7/00 7/02 7/04 7/06 7/08 7/10 7/12	 Devices for separating oil, water, or grease from sewage in drains leading to the main sewer Tanks for disinfecting, neutralising, or cooling sewage (arrangements in tanks as to the biological or chemical aspect CO2F) Siphon pipes or inverted siphons (for connections of baths, basins, or the like E03C 1/12) Adaptations of pumping plants for lifting sewage (wheeled apparatus for emptying sewers or cesspools E03F 7/10; pumps, pumping plants, per se F04) Installations for neutralising explosions in sewers Installations for stirring-up sewage Other installations or implements for operating sewer systems, e.g. for preventing or indicating stoppage; Emptying cesspools Shut-off devices (in general F16K) Valves for preventing return flow Devices for restraining rats or other animals Hand implements for emptying sewers or cesspools Wheeled apparatus for emptying sewers or cesspools Installations enabling inspection personnel to drive along sewer canals 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;

Cesspools (emptying cesspools E03F 7/00; features relating to treatment of sewage C02F)