

# CPC COOPERATIVE PATENT CLASSIFICATION

## E FIXED CONSTRUCTIONS

### BUILDING

#### E03 WATER SUPPLY; SEWERAGE

#### E03F SEWERS; CESSPOOLS

##### 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.

<b>1/00</b>	<b>Methods, systems, or installations for draining-off sewage or storm water</b>	5/0404	. . . {with a permanent or temporary filtering device; Filtering devices specially adapted therefor}
1/001	. {into a body of water}		
1/002	. {with disposal into the ground, e.g. via dry wells}	5/0405	. . . {with an odour seal}
1/003	. . {via underground elongated vaulted elements}	5/0406	. . . . {the odour seal being easily accessible for cleaning}
1/005	. . {via box-shaped elements}		
1/006	. {Pneumatic sewage disposal systems; accessories specially adapted therefore}	5/0407	. . {Floor drains for indoor use}
1/007	. . {for public or main systems}	5/0408	. . . {specially adapted for showers}
1/008	. {Temporary fluid connections for emptying mobile sewage holding tanks, e.g. of trailers, boats}	5/0409	. . . {Devices for preventing seepage around the floor drain}
		5/041	. . {Accessories therefor}
		5/0411	. . . {Devices for temporarily blocking inflow into a gully}
<b>3/00</b>	<b>Sewer pipe-line systems</b>	2005/0412	. . {with means for adjusting their position with respect to the surrounding surface}
3/02	. Arrangement of sewer pipe-lines or pipe-line systems		
3/04	. Pipes or fittings specially adapted to sewers (manufacture of concrete tubes <a href="#">B28</a> ; pipes or pipe fittings in general <a href="#">F16L</a> )	2005/0413	. . . {for height adjustment}
		2005/0414	. . . {for inclination adjustment}
3/043	. . {Partitioned to allow more than one medium to flow through}	2005/0415	. . . {for horizontal position adjustment}
3/046	. . {Open sewage channels}	2005/0416	. . {with an odour seal}
3/06	. Methods of, or installations for, laying sewer pipes (making pipes <i>in situ</i> <a href="#">F16L 1/038</a> ; laying conduits in association with the digging of a trench <a href="#">E02F 5/10</a> ; laying pipes in general <a href="#">F16L 1/00</a> )	2005/0417	. . . {in the form of a valve}
		2005/0418	. . . {in the form of a bell siphon}
2003/065	. . {Refurbishing of sewer pipes, e.g. by coating, lining}	5/042	. . Arrangements of means against overflow of water, backing-up from the drain
		5/046	. . adapted to be used with kerbs ( <a href="#">E03F 5/06</a> takes precedence {draining of roads <a href="#">E01F</a> })
		5/06	. . Gully gratings
		2005/061	. . . {hinged to the body of the gully}
		2005/063	. . . {with slidable or rotatable locking elements}
		2005/065	. . . {with elastic locking elements}
		2005/066	. . . {with means for protecting against vandalism}
		2005/068	. . . {with means for enhancing water flow}
<b>5/00</b>	<b>Sewerage structures</b>	5/08	. Ventilation of sewers
5/02	. Manhole shafts or other inspection chambers (in general <a href="#">E02D 29/12</a> ); Snow-filling openings; accessories (covers or frames for manholes or the like <a href="#">E02D 29/14</a> )	5/10	. Collecting-tanks; Equalising-tanks for regulating the run-off; Laying-up basins {(sewage settling installations <a href="#">85C3E</a> , <a href="#">85C6A</a> ; sand traps <a href="#">85C6A2</a> ; emptying sewage settling installations <a href="#">85C6E</a> ; settling installations in general <a href="#">B01D 21/00</a> )}
5/021	. . {Connection of sewer pipes to manhole shaft}		
5/022	. . {Partitioned to allow more than one medium to flow through}		
5/024	. . {made of plastic material}		
5/025	. . {provided with a liner}		
5/027	. . {The bottom made of prefabricated segments}	5/101	. . {Dedicated additional structures, interposed or parallel to the sewer system}
2005/028	. . {Sealing joints between manhole segments}		
5/04	. Gullies {inlets, road sinks, floor drains} with or without odour seals or sediment traps	5/102	. . {using already existing parts of the sewer system for runoff-regulation}
5/0401	. . {Gullies for use in roads or pavements}	5/103	. . {Naturals or landscape retention bodies, e.g. ponds}
5/0402	. . . {provided with flushing means for cleaning or emptying}	5/105	. . {Accessories, e.g. flow regulators or cleaning devices}
5/0403	. . . {with a sediment trap}		

## E03F

- 5/106 . . . {Passive flow control devices, i.e. not moving during flow regulation}
- 5/107 . . . {Active flow control devices, i.e. moving during flow regulation}
- 5/108 . . . {Cleaning devices providing a flushing surge}
- 5/12 . Emergency outlets
- 5/125 . . {providing screening of overflowing water}
- 5/14 . 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](#) {; gullies with sediment traps [E03F 5/04](#)})
- 5/16 . . Devices for separating oil, water or grease from sewage in drains leading to the main sewer
- 5/18 . Tanks for disinfecting, neutralising, or cooling sewage (arrangements in tanks as to the biological or chemical aspect [C02F](#))
- 5/20 . Siphon pipes or inverted siphons (for connections of baths, basins, or the like [E03C 1/12](#) {; siphons in dams [E02B 7/18](#)})
- 5/22 . Adaptations of pumping plants for lifting sewage (wheeled apparatus for emptying sewers or cesspools [E03F 7/10](#); pumps, pumping plants, *per se* [F04](#))
- 5/24 . Installations for neutralising explosions in sewers {(in tanks [B65D 90/38](#); security devices against the effect of explosions for manhole covers [E02D 29/14](#))}
- 5/26 . Installations for stirring-up sewage {(disintegrating garbage to be evacuated with sewage [B02C 18/0084](#); devices on water-closet bowls [E03D](#))}
- 7/00 Other installations or implements for operating sewer systems, e.g. for preventing or indicating stoppage; Emptying cesspools**
- 7/02 . Shut-off devices (in general [F16K](#))
- 7/04 . . Valves for preventing return flow {(in gullies, drains or the like [E03F 5/042](#))}
- 7/06 . Devices for restraining rats or other animals
- 7/08 . Hand implements for emptying sewers or cesspools
- 7/10 . Wheeled apparatus for emptying sewers or cesspools
- 7/103 . . {with a tank featuring one or more partition walls}
- 7/106 . . {Accessories, e.g. hose support}
- 7/12 . Installations enabling inspection personnel to drive along sewer canals
- 9/00 Arrangements or fixed installations {methods or devices} for cleaning {or clearing} 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](#) {; gullies provided with flushing means for cleaning or emptying [E03F 5/0402](#); devices to remove obstructions in waste-pipes or sinks [E03C 1/30](#)})**
- 9/002 . {Cleaning sewer pipes by mechanical means (combined with flushing [E03F 9/00](#))}
- 9/005 . . {Apparatus for simultaneously pushing and rotating a cleaning device carried by the leading end of a cable or an assembly of rods}
- 9/007 . {Devices providing a flushing surge}

**11/00 Cesspools** (emptying cesspools [E03F 7/00](#); features relating to treatment of sewage [C02F](#))

### **2201/00 Details, devices or methods not otherwise provided for**

- 2201/10 . Dividing the first rain flush out of the stormwater flow
- 2201/20 . Measuring flow in sewer systems
- 2201/30 . Devices providing a sequential discharge in sewer systems
- 2201/40 . Means for indicating blockage in sewer systems