

CPC**COOPERATIVE PATENT CLASSIFICATION****E03F****SEWERS; CESSPOOLS****E03F 1/00****Methods, systems, or installations for draining-off sewage or storm water**

E03F 1/001

. into a body of water

E03F 1/002

. {with disposal into the ground, e.g. via dry wells}

E03F 1/003

.. via underground elongated vaulted elements

E03F 1/005

.. via box-shaped elements

E03F 1/006

. {Pneumatic sewage disposal systems; accessories specially adapted therefore}

E03F 1/007

.. {for public or main systems}

E03F 1/008

. {Temporary fluid connections for emptying mobile sewage holding tanks, e.g. of trailers, boats}

E03F 3/00**Sewer pipe-line systems**

E03F 3/02

. Arrangement of sewer pipe-lines or pipe-line systems

E03F 3/04

. Pipes or fittings specially adapted to sewers (manufacture of concrete tubes [B28](#); pipes or pipe fittings in general [F16L](#))

E03F 3/043

.. {Partitioned to allow more than one medium to flow through}

E03F 3/046

.. {Open sewage channels}

E03F 3/06

. Methods of, or installations for, laying sewer pipes (making pipes in situ [F16L 1/038](#); laying conduits in association with the digging of a trench [E02F 5/10](#); laying pipes in general [F16L 1/00](#))

E03F 2003/065

.. {Refurbishing of sewer pipes, e.g. by coating, lining}

E03F 5/00**Sewerage structures**

E03F 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](#))

E03F 5/021

.. {Connection of sewer pipes to manhole shaft}

E03F 5/022

.. {Partitioned to allow more than one medium to flow through}

E03F 5/024

.. {made of plastic material}

E03F 5/025

.. {provided with a liner}

E03F 5/027

.. {The bottom made of prefabricated segments}

E03F 2005/028

.. {Sealing joints between manhole segments}

E03F 5/04

. Gullies {inlets, road sinks, floor drains} with or without odour seals or sediment traps

E03F 5/0401

.. {Gullies for use in roads or pavements}

E03F 5/0402

... {provided with flushing means for cleaning or emptying}

E03F 5/0403

... {with a sediment trap}

E03F 5/0404

... {with a permanent or temporary filtering device; Filtering devices specially adapted therefor}

E03F 5/0405

... {with an odour seal}

E03F 5/0406

.... {the odour seal being easily accessible for cleaning}

- E03F 5/0407 .. {Floor drains for indoor use}
- E03F 5/0408 ... {specially adapted for showers}
- E03F 5/0409 ... {Devices for preventing seepage around the floor drain}
- E03F 5/041 .. {Accessories therefor}
- E03F 5/0411 ... {Devices for temporarily blocking inflow into a gully}
- E03F 2005/0412 .. {with means for adjusting their position with respect to the surrounding surface}
- E03F 2005/0413 ... {for height adjustment}
- E03F 2005/0414 ... {for inclination adjustment}
- E03F 2005/0415 ... {for horizontal position adjustment}
- E03F 2005/0416 .. {with an odour seal}
- E03F 2005/0417 ... {in the form of a valve}
- E03F 2005/0418 ... {in the form of a bell siphon}
- E03F 5/042 .. Arrangements of means against overflow of water, backing-up from the drain
- E03F 5/046 .. adapted to be used with kerbs ([E03F 5/06](#) takes precedence {draining of roads [E01F](#)})
- E03F 5/06 .. Gully gratings
- E03F 2005/061 ... {hinged to the body of the gully}
- E03F 2005/063 ... {with slidable or rotatable locking elements}
- E03F 2005/065 ... {with elastic locking elements}
- E03F 2005/066 ... {with means for protecting against vandalism}
- E03F 2005/068 ... {with means for enhancing water flow}
- E03F 5/08 . Ventilation of sewers
- E03F 5/10 . Collecting-tanks; Equalising-tanks for regulating the run-off; Laying-up basins {([sewage settling installations 85C3E](#), [85C6A](#); [sand traps 85C6A2](#); [emptying sewage settling installations 85C6E](#); [settling installations in general B01D 21/00](#))}
- E03F 5/101 .. {Dedicated additional structures, interposed or parallel to the sewer system}
- E03F 5/102 .. {using already existing parts of the sewer system for runoff-regulation}
- E03F 5/103 .. {Naturals or landscape retention bodies, e.g. ponds}
- E03F 5/105 .. {Accessories, e.g. flow regulators or cleaning devices}
- E03F 5/106 ... {Passive flow control devices, i.e. not moving during flow regulation}
- E03F 5/107 ... {Active flow control devices, i.e. moving during flow regulation}
- E03F 5/108 ... {Cleaning devices providing a flushing surge}
- E03F 5/12 . Emergency outlets
- E03F 5/125 .. {providing screening of overflowing water}
- E03F 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](#)})
- E03F 5/16 .. Devices for separating oil, water or grease from sewage in drains leading to the main sewer
- E03F 5/18 . Tanks for disinfecting, neutralising, or cooling sewage ([arrangements in tanks as to the biological or chemical aspect C02F](#))

- E03F 5/20
 - . Siphon pipes or inverted siphons (for connections of baths, basins, or the like [E03C 1/12](#){ siphons in dams [E02B 7/18](#)})
- E03F 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](#))
- E03F 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](#))}
- E03F 5/26
 - . Installations for stirring-up sewage {(disintegrating garbage to be evacuated with sewage [B02C 18/0084](#); devices on water-closet bowls [E03D](#))}
- E03F 7/00**

Other installations or implements for operating sewer systems, e.g. for preventing or indicating stoppage; Emptying cesspools
- E03F 7/02
 - . Shut-off devices (in general [F16K](#))
- E03F 7/04
 - . . Valves for preventing return flow {(in gullies, drains or the like [E03F 5/042](#))}
- E03F 7/06
 - . Devices for restraining rats or other animals
- E03F 7/08
 - . Hand implements for emptying sewers or cesspools
- E03F 7/10
 - . Wheeled apparatus for emptying sewers or cesspools
- E03F 7/103
 - . . {with a tank featuring one or more partition walls}
- E03F 7/106
 - . . {Accessories, e.g. hose support}
- E03F 7/12
 - . Installations enabling inspection personnel to drive along sewer canals
- E03F 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](#)})
- E03F 9/002
 - . {Cleaning sewer pipes by mechanical means (combined with flushing [E03F 9/00](#))}
- E03F 9/005
 - . . {Apparatus for simultaneously pushing and rotating a cleaning device carried by the leading end of a cable or an assembly of rods}
- E03F 9/007
 - . {Devices providing a flushing surge}
- E03F 11/00**

Cesspools (emptying cesspools [E03F 7/00](#); features relating to treatment of sewage [C02F](#))
- E03F 2201/00**

Details, devices or methods not otherwise provided for
- E03F 2201/10
 - . Dividing the first rain flush out of the stormwater flow
- E03F 2201/20
 - . Measuring flow in sewer systems
- E03F 2201/30
 - . Devices providing a sequential discharge in sewer systems
- E03F 2201/40
 - . Means for indicating blockage in sewer systems