

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 18/40](#); 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 5/04B](#); 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