E03F

SEWERS; CESSPOOLS

Definition statement
This place covers:
Methods and installations for conveying waste water and precipitation water towards treatment installations and/or natural flowing bodies.

Relationships with other classification places
Methods and installations for the treatment of such used water which are not part of the conveying system are classified in C02F.

References

Limiting references
This place does not cover:

| Methods and installations for treatment of sewage | C02F |

E03F 1/00

Methods, systems, or installations for draining-off sewage or storm water

Definition statement
This place covers:
Methods and devices for conveying used water pneumatically; disposing sewage into the landscape.

References

Limiting references
This place does not cover:

| Constructional details of cesspools | E03F 11/00 |
| Underground watering of plants | A01G 25/06 |
| Methods and installations for treatment of water | C02F |
| Drainage of water | E02B 11/00 |

Application-oriented references
Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

| Arrangement of water closets specially adapted to motor vehicles or trailers | B60R 15/00 |
| Arrangement of water closets specially adapted to railway carriages | B61D 35/00 |
| Flushed water closets specially adapted to ships | B63B 29/14 |
| Flushed water closets specially adapted to aircrafts | B64D 11/02 |
Informative references

Attention is drawn to the following places, which may be of interest for search:

| Conveying materials through pipes by aire          | B65G 53/00 |
| Constructional details of down-pipes              | E04D 13/08 |

Special rules of classification

Service stations for fresh and used water, e.g. for camping sites, are classified in E03F 1/00 and in E02B 9/02.

Means for distributing outflowing water from roof down-pipes onto the ground are classified in E03F 1/00. Means integrated into the downpipe are classified in E04D 13/08.

E03F 3/00

Sewer pipe-line systems

Definition statement

This place covers:
Lay-out and constructional details of pipe systems specially adapted to sewage.
Arrangements of cables within sewer pipes, e.g. for electricity or telecommunication.

References

Limiting references

This place does not cover:

| Manufacture of concrete tubes                      | B28B       |
| Constructional details of pipes and pipe fittings in general | F16L       |

E03F 5/00

Sewerage structures

Definition statement

This place covers:
Component parts of sewer systems other than conveying pipes.

References

Limiting references

This place does not cover:

| Inspection of sewers                                | E03F 7/12  |
| Mechanical filtering in general                    | B01D 21/00, B01D 29/00, B01D 33/00 |
| Large underground containers                       | B65D 88/00 |
| Details of pavings and gutters                     | E01C 11/22 |
| Making sewers in situ                             | E02D 29/10 |
Manhole shafts and covers not specially adapted to sewage
Digging of trenches
Methods of laying pipes underground
Devices for covering leaks in pipes
Control of flow in general, e.g. throttles

Informative references
Attention is drawn to the following places, which may be of interest for search:

Connection of manhole covers to shaft

Special rules of classification
Elongated water inlet structures with gratings are classified in E03F 3/046 and in E03F 5/06, if details of both parts of the structure are disclosed.

Documents describing grinding of sewage are classified in E03F 5/22 and E03F 5/26.

E03F 5/12
Emergency outlets

Definition statement
This place covers:
Sewer channels or stormwater holding tanks with means for allowing surplus water to be discharged in a controlled way.

References

Limiting references
This place does not cover:

Devices for separating unwanted substances from flowing sewage which are integrated in the sewer system

E03F 7/00
Other installations or implements for operating sewer systems, e.g. for preventing or indicating stoppage; Emptying cesspools

Definition statement
This place covers:
Devices for ensuring functioning of a sewer system.

References

Limiting references
This place does not cover:

Devices for refurbishing sewers
Devices for cleaning sewers
E03F 7/12
Installations enabling inspection personnel to drive along sewer canals

Definition statement
This place covers:
Devices enabling inspection of interior of sewer canals, whether or not manned and whether or not moved through the canal.

References
Limiting references
This place does not cover:

| Devices for repairing or refurbishing sewer canals                        | E03F 3/06 |
| Devices for cleaning the interior of sewer canals                        | E03F 9/00 |

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))

Definition statement
This place covers:
Devices for cleaning the interior of a sewer canal in order to improve flow through the canal.

References
Limiting references
This place does not cover:

| Sediment traps, rakes, screens, or the like, arranged in sewer lines | E03F 5/14 |
| Cleaning of inner side of hollow articles                          | B08B 9/02 |
| Devices for cleaning or clearing domestic waste pipes              | E03C 1/30 |
| Devices for clearing obstructions in water closets                 | E03D 9/00 |

Special rules of classification
Devices which can be used for sewer canals and domestic drain pipes are classified here.
E03F 11/00

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

Definition statement
This place covers:
Constructional details of cesspools and other sewage holding tanks.

Relationships with other classification places
Methods and devices for treatment of water in a cesspool: C02F.

References

Limiting references
This place does not cover:

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