

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

*This place covers:*

Devices for receiving excrements and urine which are cleaned by water flushing.

**References****Limiting references**

*This place does not cover:*

|   |                            |
|---|----------------------------|
| Closets or urinals without connection to the water supply or waste system | <a href="#">A47K 11/00</a> |
| Seats or covers for all kinds of toilets                                  | <a href="#">A47K 13/00</a> |
| Portable urination aids for medical use                                   | <a href="#">A61F 5/455</a> |
| Disintegrating of garbage in general                                      | <a href="#">B02C 18/00</a> |

**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 | <a href="#">B60R 15/00</a> |
| Arrangement of water closets specially adapted to railway carriages          | <a href="#">B61D 35/00</a> |
| Flushed water closets specially adapted to ships                             | <a href="#">B63B 29/14</a> |
| Flushed water closets specially adapted to aircrafts                         | <a href="#">B64D 11/02</a> |

**E03D 1/00****Water flushing devices with cisterns {; Setting up a range of flushing devices or water-closets; Combinations of several flushing devices}****Definition statement**

*This place covers:*

Constructional aspects and component parts of flushing cisterns;

Inlet and outlet valves specially adapted for flushing cisterns.

**References****Limiting references**

*This place does not cover:*

|  |                             |
|--|-----------------------------|
| Toilets and urinals with pressurized flushing system   | <a href="#">E03D 3/00</a>   |
| Combination of toilet bowls with wash basins, cleaning devices for chamber-pots or similar devices | <a href="#">E03D 11/025</a> |
| Self-closing valves in general   | <a href="#">F16K 21/00</a>  |

|                                       |                            |
|---------------------------------------|----------------------------|
| Float actuation for valves in general | <a href="#">F16K 31/18</a> |
| Measuring water level in general      | <a href="#">G01F 23/00</a> |

### 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:

|  |                            |
|--|----------------------------|
| Portable toilets with water reservoir for flushing   | <a href="#">E03D 7/00</a>  |
| Arrangement of water closets with cisterns specially adapted to motor vehicles or trailers | <a href="#">B60R 15/00</a> |
| Arrangement of water closets with cisterns specially adapted to railway carriages          | <a href="#">B61D 35/00</a> |
| Water closets with cisterns specially adapted to ships                                     | <a href="#">B63B 29/14</a> |
| Water closets with cisterns specially adapted to aircrafts                                 | <a href="#">B64D 11/02</a> |
| Combinations of wash basins, sinks, urinals, toilets or similar devices                    | <a href="#">E03C 1/01</a>  |

### Special rules of classification

[E03D 1/02](#) is not used, documents are only classified in the corresponding subgroups.

Flushing valves for discharging different quantities of water are classified in [E03D 1/14](#) and, if applicable, in the corresponding subgroup [E03D 1/30](#) - [E03D 1/308](#).

Simple devices for reducing amount of flushing water per flush (e.g. brick in cistern) are classified in [E03D 1/14](#).

Water monitoring devices, leak and/or overflow detection are classified in [E03D 1/00](#).

## E03D 3/00

**Flushing devices operated by pressure of the water supply system {flushing valves not connected to the water-supply main, also if air is blown in the water seal for a quick flushing}**

### Definition statement

*This place covers:*

Flushing valves arranged in the water supply line; other devices for flushing with pressurized water

### References

#### Limiting references

*This place does not cover:*

|  |                            |
|--|----------------------------|
| Self-closing valves not specially adapted to water closet flushing | <a href="#">F16K 21/04</a> |
|--|----------------------------|

### 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:

|   |                            |
|---|----------------------------|
| Pressure flushing valves within vacuum flushing systems | <a href="#">E03F 1/006</a> |
|---|----------------------------|

### Special rules of classification

Flushing valves are generally as well classified in [F16K](#).

## E03D 5/00

**Special constructions of flushing devices (in motor vehicles or trailers [B60R 15/00](#); in railway carriages [B61D 35/00](#); in ships [B63B 29/14](#); in aircraft [B64D 11/02](#)), {e.g. closed flushing system}**

### Definition statement

*This place covers:*

Devices and methods for transmission of actuating force to flushing valve; flushing devices working with greywater or other cleaning fluids

### References

#### Limiting references

*This place does not cover:*

|   |                            |
|---|----------------------------|
| Construction of flushed water closets specially adapted to motor vehicles or trailers | <a href="#">B60R 15/00</a> |
| Construction of flushed water closets specially adapted to railway carriages          | <a href="#">B61D 35/00</a> |
| Construction of flushed water closets specially adapted to ships                      | <a href="#">B63B 29/14</a> |
| Construction of flushed water closets specially adapted to aircrafts                  | <a href="#">B64D 11/02</a> |
| Handles, levers and knobs in general  | <a href="#">G05D</a>       |

#### 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:*

|                                     |                           |
|-------------------------------------|---------------------------|
| Collection and storage of greywater | <a href="#">E03B 1/04</a> |
|-------------------------------------|---------------------------|

### Special rules of classification

Constructive adaptations of cisterns for using greywater are classified in [E03D 5/003](#). Other aspects of greywater collection or use are classified in [E03B 1/04](#).

Pusher plates, their mounting to an opening in a wall or the like and the elements for transmitting the actuating force to the flushing valve are classified in [E03D 5/028](#), whereas constructional details of built-in cisterns, also frames for fixing pusher plates to wall openings, are classified in [E03D 1/0125](#).

## E03D 7/00

**Wheeled lavatories (wheeled closets without flushing [A47K 11/00](#); construction of land vehicles [B62](#))**

### Definition statement

*This place covers:*

Mobile toilets with provisions for flushing.

## References

### Limiting references

*This place does not cover:*

|  |                             |
|--|-----------------------------|
| Constructional details of buildings for public toilets | <a href="#">E04H 1/1216</a> |
|--|-----------------------------|

### Special rules of classification

This class covers the constructional details of single portable toilets, e.g. for outdoor use, trailers for providing toilet facilities as well as portable public toilet cabins as far as aspects of the toilet and its water connection are concerned. Aspects of construction of the housing itself are classified in [E04H 1/1205](#).

## E03D 9/00

**Sanitary or other accessories for lavatories (hand tools for cleaning the toilet bowl [A47K 11/10](#); seats or covers for closets [A47K 13/00](#); body supports, other than seats for closets [A47K 17/02](#); devices for preventing contamination of drinking-water pipes [E03C 1/10](#) )}; Devices for cleaning or disinfecting the toilet room or the toilet bowl; Devices for eliminating smells (cleaning, disinfecting or deodorising the seat [A47K 13/30](#))}**

### Definition statement

*This place covers:*

Accessories enhancing use comfort or security of water closets or urinals, the accessories being specially adapted for flushed toilets: devices for cleaning or disinfecting the toilet room or the toilet bowl or for eliminating smells.

## References

### Limiting references

*This place does not cover:*

|   |                            |
|---|----------------------------|
| Hand tools for cleaning the toilet bowl   | <a href="#">A47K 11/10</a> |
| Seats or covers for all kinds of toilets  | <a href="#">A47K 13/00</a> |
| Cleaning, disinfecting or deodorising the seat                                  | <a href="#">A47K 13/30</a> |
| Toilet and urinal accessories without connection to water supply and waste pipe | <a href="#">A47K 17/00</a> |
| Body supports, other than seats for closets                                     | <a href="#">A47K 17/02</a> |
| Baths and bidets for therapeutic use  | <a href="#">A61H 33/00</a> |
| Deodorizing of rooms in general   | <a href="#">A61L 9/00</a>  |
| Chemical composition of deodorising agents                                      | <a href="#">A61L 9/01</a>  |
| Baths and spraying heads for subaquatic intestinal cleaning                     | <a href="#">A61M 9/00</a>  |
| Chemical composition of disinfecting agents                                     | <a href="#">C11D</a>       |
| Devices for preventing contamination of drinking water pipes                    | <a href="#">E03C 1/10</a>  |

### 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:

|                         |                             |
|-------------------------|-----------------------------|
| Ventilated toilet seats | <a href="#">A47K 13/307</a> |
|-------------------------|-----------------------------|

### Special rules of classification

Disinfecting devices, whether only dispensing while flushing or disinfecting without functional relationship to a flushing action are classified according to their placement in the flushing system in subclass [E03D 9/03](#) and parallel in [E03D 2009/024](#), [E03D 2009/026](#) and/or [E03D 2009/028](#).

Dispensers mounted inside the cistern and dispensing into the overflow pipe are classified in [E03D 9/037](#).

[E03D 9/05](#) and [E03D 9/052](#) are used indifferently and search should always take place in both groups.

Ventilation of toilets via the seat are classified in [E03D 9/05](#) and in [A47K 13/307](#).

## E03D 11/00

**Other component parts of water-closets (pipe-joints or couplings in general [F16L](#) ), e.g. noise-reducing means in the flushing system (noise-reducing means in combination with flushing valves [E03D 9/14](#)), flushing pipes mounted in the bowl, seals for the bowl outlet, devices preventing overflow of the bowl contents; devices forming a water seal in the bowl after flushing, devices eliminating obstructions in the bowl outlet or preventing backflow of water and excrements from the waterpipe}**

### Definition statement

*This place covers:*

Constructional details of water closet bowls and discharge pipes; Mounting of bowls or other parts of a water closet to a support: e.g. noise-reducing means in the flushing system, flushing pipes mounted in the bowl, seals for the bowl outlet, devices preventing overflow of the bowl contents; devices forming a water seal in the bowl after flushing, devices eliminating obstructions in the bowl outlet or preventing backflow of water and excrements from the waterpipe.

### References

#### Limiting references

*This place does not cover:*

|   |                            |
|---|----------------------------|
| Cisterns specially adapted to be combined with at least another sanitary device | <a href="#">E03D 1/003</a> |
| Noise-reducing means in combination with flushing valves                        | <a href="#">E03D 9/14</a>  |
| Constructional details of flushed urinals                                       | <a href="#">E03D 13/00</a> |
| Constructional details of urinals without connection to water supply system     | <a href="#">A47K 11/00</a> |
| Pipe-joints or couplings in general   | <a href="#">F16L</a>       |

**Informative references**

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

|                                |                           |
|--------------------------------|---------------------------|
| Mounting frames for washbasins | <a href="#">E03C 1/32</a> |
|--------------------------------|---------------------------|

**Special rules of classification**

Toilet bowls having features for better distribution of flushing water are classified in [E03D 11/02](#) or lower and in [E03D 2201/40](#).

Siphons forming part of the bowl are classified in [E03D 11/02](#), siphons independent of the bowl are classified in [E03D 11/18](#).

[E03D 2201/20](#), [E03D 2201/30](#), [E03D 2201/40](#) are used to mark information of the respective feature to be used for a future search without this feature forming the invention.

**E03D 13/00**

**Urinals (without flushing devices [A47K 11/00](#) ); Means for connecting the urinal to the flushing pipe and the wastepipe; Splashing shields for urinals}**

**Definition statement**

*This place covers:*

Constructional features of urinals with connection to water supply and/or waste system; Accessories specially adapted to such urinals.

**References****Limiting references**

*This place does not cover:*

|  |                            |
|--|----------------------------|
| Urinals without flushing devices, i.e. without connection to water supply and waste system | <a href="#">A47K 11/00</a> |
| Siphons for other sealants than water  | <a href="#">E03C 1/281</a> |

**Special rules of classification**

Siphons with other sealants than water specially adapted for urinals are classified also in [E03D 13/005](#) besides [E03C 1/281](#).

Remote controlled flushing for urinals is classified in [E03D 5/105](#).