

CPC**COOPERATIVE PATENT CLASSIFICATION****E03B**

INSTALLATIONS OR METHODS FOR OBTAINING, COLLECTING, OR DISTRIBUTING WATER (drilling wells, obtaining fluids in general from wells [E21B](#); pipe-line systems in general [F17D](#))

E03B 1/00

Methods or layout of installations for water supply ([E03B 3/00](#), [E03B 9/00](#) take precedence)

E03B 1/02

- for public or like main supply {for industrial use}

E03B 1/04

- for domestic or like local supply

E03B 1/041

- . {Greywater supply systems}

E03B 1/042

- . . {Details thereof, e.g. valves or pumps}

E03B 1/044

- . . . {Switch valves in waste pipes}

E03B 2001/045

- . . . {using household water}

E03B 2001/047

- . . . {using rainwater}

E03B 1/048

- . {Systems for collecting not used fresh water}

E03B 3/00

Methods or installations for obtaining or collecting drinking water or tap water (treatment of water [C02F](#))

E03B 3/02

- from rain-water

E03B 3/03

- . Special vessels for collecting or storing rain-water for use in the household, e.g. water-butts {(containers for storage, in general, [B65D](#))}

E03B 3/04

- from surface water {(Barrages [E02B 7/00](#))}

E03B 3/06

- from underground {(consolidating foundation soil by draining, e.g. by lowering the water level [E02D 3/00](#); subsoil filtering [E21B 43/02](#))}

E03B 3/08

- . Obtaining and confining water by means of wells (applicable to a combination of water and other liquids or to other liquids only [E21B 43/00](#))

E03B 3/10

- . . by means of pit wells

E03B 3/11

- . . . in combination with tubes, e.g. perforated, extending horizontally, or upwardly inclined, exterior to the pits

E03B 3/12

- . . . by means of vertical pipe wells

E03B 3/14

- . . . by means of horizontal or oblique wells

E03B 3/15

- . . . Keeping wells in good condition, e.g. by cleaning, repairing, regenerating; Maintaining or enlarging the capacity of wells or water-bearing layers (with artificial enrichment [E03B 3/32](#) (; cleaning, in general [B08B](#))

E03B 3/16

- . . . Component parts of wells

E03B 3/18

- Well filters (filters in general [B01D 24/00](#) to [B01D 35/00](#))

E03B 3/20

- of elements of special shape

E03B 3/22

- Selection of specified materials {(not used, documents in [E03B 3/20](#))}

E03B 3/24

- formed of loose materials, e.g. gravel

E03B 3/26

- with packed filtering material

- E03B 3/28
 - from humid air (condensing of vapours in general [B01D 5/00](#); dehumidification of air for air-conditioning [F24F 3/14](#))
- E03B 3/30
 - from snow or ice
- E03B 3/32
 - with artificial enrichment, e.g. by adding water from a pond or a river {(consolidating foundation soil by draining e.g. by lowering the water level [E02D 3/00](#))}
- E03B 3/34
 - . of underground water
- E03B 3/36
 - . of surface water
- E03B 3/38
 - Curbs for springs
- E03B 3/40
 - Other devices for confining, e.g. trenches, drainage
- E03B 5/00**

Use of pumping plants or installations; Layouts thereof (pumps; pumping plants or installations per se [F04](#))
- E03B 5/02
 - arranged in buildings
- E03B 5/025
 - . {with surface tanks}
- E03B 5/04
 - arranged in wells
- E03B 5/045
 - . {with surface tanks}
- E03B 5/06
 - . Special equipment, {e.g. well seals and connections for well casings or the like}
- E03B 7/00**

Water main or service pipe systems (pipes or tubes in general [F16L](#))
- E03B 7/003
 - {Arrangement for testing of watertightness of water supply conduits}
- E03B 7/006
 - {Arrangements or methods for cleaning or refurbishing water conduits}
- E03B 7/02
 - Public or like main pipe systems
- E03B 7/04
 - Domestic or like local pipe systems (domestic plumbing [E03C 1/02](#))
- E03B 7/045
 - . {diverting initially cold water in warm water supply}
- E03B 7/07
 - Arrangement of devices, e.g. filters, flow controls, measuring devices, siphons, valves, in the pipe systems (devices per se, see the relevant classes for these devices)
- E03B 7/071
 - . {Arrangement of safety devices in domestic pipe systems, e.g. devices for automatic shut-off}
- E03B 7/072
 - . {Arrangement of flowmeters}
- E03B 7/074
 - . {Arrangement of water treatment devices}
- E03B 7/075
 - . {Arrangement of devices for control of pressure or flow rate}
- E03B 7/077
 - . {Arrangement of backflow preventing devices}
- E03B 7/078
 - . {Combined units with different devices; Arrangement of different devices with respect to each other}
- E03B 7/08
 - . Arrangement of draining devices, {e.g. manual shut-off valves} (draining devices in general [F16K](#), [F16L](#))
- E03B 7/09
 - Component parts or accessories (tools for cleaning pipes [B08B 9/02](#); devices for preventing contamination of drinking water pipes for domestic use [E03C 1/10](#); devices for preventing damage in case of bursts of pipes [F16L](#); heating of pipes in general [F16L 53/00](#))
- E03B 7/095
 - . {Component holders or housings, e.g. boundary boxes}

- E03B 7/10
 - . . Devices preventing bursting of pipes by freezing ([devices preventing bursting of pipes in general F16L 55/00](#))
- E03B 7/12
 - . . . by preventing freezing
- E03B 7/14
 - . . Devices for thawing frozen pipes
- E03B 9/00**
Methods or installations for drawing-off water ([domestic water-drawing devices E03C](#); [taps or valves per se F16K](#))
 - E03B 9/02
 - . Hydrants; Arrangements of valves therein; Keys for hydrants
 - E03B 2009/022
 - . . {Hydrants with a tubular valve seat}
 - E03B 9/025
 - . . {Taps specially designed for outdoor use, e.g. wall hydrants, sill cocks}
 - E03B 9/027
 - . . . {with features preventing frost damage}
 - E03B 9/04
 - . . Column hydrants
 - E03B 9/06
 - . . . Covers
 - E03B 9/08
 - . . Underground hydrants
 - E03B 9/10
 - . . . Protective plates or covers
 - E03B 9/12
 - . . . Stand-pipes
 - E03B 9/14
 - . . Draining devices for hydrants
 - E03B 9/16
 - . . Devices for retaining foreign matter, e.g. sand
 - E03B 9/18
 - . . Cleaning tools for hydrants
 - E03B 9/20
 - . . Pillar fountains or like apparatus for dispensing drinking water
- E03B 11/00**
Arrangements or adaptations of tanks for water supply ([water-butts E03B 3/03](#); [storage aspects B65D, B65G, F17B, F17C](#); [foundations E02D 27/38](#); [construction or assembling of bulk storage containers employing civil engineering techniques E04H 7/00](#); [tower aspects E04H 12/00](#))
 - E03B 2011/005
 - . {Tanks with two or more separate compartments divided by e.g. a flexible membrane}
 - E03B 11/02
 - . for domestic or like local water supply
 - E03B 11/04
 - . . without air regulators {i.e. without air inlet or outlet valves; water tanks provided with flexible walls}
 - E03B 11/06
 - . . with air regulators {(air receivers for water conduits [F16L 55/04](#); pressure control devices for fluids [G05D](#))}
 - E03B 11/08
 - . . . Air regulators
 - E03B 11/10
 - . for public or like main water supply
 - E03B 11/12
 - . . of high-level tanks
 - E03B 11/14
 - . . of underground tanks
 - E03B 11/16
 - . . Adaptations of devices for putting pumping plants in and out of operation, e.g. automatic control devices {(not used, documents in [F04](#))}