

**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](#))}