

**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	<ul style="list-style-type: none"> <li>from snow or ice</li> </ul>
E03B 3/32	<ul style="list-style-type: none"> <li>with artificial enrichment, e.g. by adding water from a pond or a river <a href="#">{(consolidating foundation soil by draining e.g. by lowering the water level E02D 3/00)}</a></li> </ul>
E03B 3/34	<ul style="list-style-type: none"> <li>of underground water</li> </ul>
E03B 3/36	<ul style="list-style-type: none"> <li>of surface water</li> </ul>
E03B 3/38	<ul style="list-style-type: none"> <li>Curbs for springs</li> </ul>
E03B 3/40	<ul style="list-style-type: none"> <li>Other devices for confining, e.g. trenches, drainage</li> </ul>
<b>E03B 5/00</b>	<b>Use of pumping plants or installations; Layouts thereof (pumps; pumping plants or installations per se F04)</b>
E03B 5/02	<ul style="list-style-type: none"> <li>arranged in buildings</li> </ul>
E03B 5/025	<ul style="list-style-type: none"> <li><a href="#">{with surface tanks}</a></li> </ul>
E03B 5/04	<ul style="list-style-type: none"> <li>arranged in wells</li> </ul>
E03B 5/045	<ul style="list-style-type: none"> <li><a href="#">{with surface tanks}</a></li> </ul>
E03B 5/06	<ul style="list-style-type: none"> <li>Special equipment, <a href="#">{e.g. well seals and connections for well casings or the like}</a></li> </ul>
<b>E03B 7/00</b>	<b>Water main or service pipe systems (pipes or tubes in general F16L)</b>
E03B 7/003	<ul style="list-style-type: none"> <li><a href="#">{Arrangement for testing of watertightness of water supply conduits}</a></li> </ul>
E03B 7/006	<ul style="list-style-type: none"> <li><a href="#">{Arrangements or methods for cleaning or refurbishing water conduits}</a></li> </ul>
E03B 7/02	<ul style="list-style-type: none"> <li>Public or like main pipe systems</li> </ul>
E03B 7/04	<ul style="list-style-type: none"> <li>Domestic or like local pipe systems <a href="#">(domestic plumbing E03C 1/02)</a></li> </ul>
E03B 7/045	<ul style="list-style-type: none"> <li><a href="#">{diverting initially cold water in warm water supply}</a></li> </ul>
E03B 7/07	<ul style="list-style-type: none"> <li>Arrangement of devices, e.g. filters, flow controls, measuring devices, siphons, valves, in the pipe systems <a href="#">(devices per se, see the relevant classes for these devices)</a></li> </ul>
E03B 7/071	<ul style="list-style-type: none"> <li><a href="#">{Arrangement of safety devices in domestic pipe systems, e.g. devices for automatic shut-off}</a></li> </ul>
E03B 7/072	<ul style="list-style-type: none"> <li><a href="#">{Arrangement of flowmeters}</a></li> </ul>
E03B 7/074	<ul style="list-style-type: none"> <li><a href="#">{Arrangement of water treatment devices}</a></li> </ul>
E03B 7/075	<ul style="list-style-type: none"> <li><a href="#">{Arrangement of devices for control of pressure or flow rate}</a></li> </ul>
E03B 7/077	<ul style="list-style-type: none"> <li><a href="#">{Arrangement of backflow preventing devices}</a></li> </ul>
E03B 7/078	<ul style="list-style-type: none"> <li><a href="#">{Combined units with different devices; Arrangement of different devices with respect to each other}</a></li> </ul>
E03B 7/08	<ul style="list-style-type: none"> <li>Arrangement of draining devices, <a href="#">{ e.g. manual shut-off valves}</a> <a href="#">(draining devices in general F16K, F16L)</a></li> </ul>
E03B 7/09	<ul style="list-style-type: none"> <li>Component parts or accessories <a href="#">(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)</a></li> </ul>
E03B 7/095	<ul style="list-style-type: none"> <li><a href="#">{Component holders or housings, e.g. boundary boxes}</a></li> </ul>
E03B 7/10	<ul style="list-style-type: none"> <li>Devices preventing bursting of pipes by freezing <a href="#">(devices preventing bursting of pipes in general F16L 55/00)</a></li> </ul>
E03B 7/12	<ul style="list-style-type: none"> <li>by preventing freezing</li> </ul>
E03B 7/14	<ul style="list-style-type: none"> <li>Devices for thawing frozen pipes</li> </ul>

**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](#))}