

**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 {consolidating foundation soil by draining e.g. by lowering the water level <a href="#">E02D 3/00</a>}</li> </ul>
E03B 3/34	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>of underground water</li> </ul> </li> </ul>
E03B 3/36	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>of surface water</li> </ul> </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</b> (pumps; pumping plants or installations per se <a href="#">F04</a> )
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> <ul style="list-style-type: none"> <li>{with surface tanks}</li> </ul> </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> <ul style="list-style-type: none"> <li>{with surface tanks}</li> </ul> </li> </ul>
E03B 5/06	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>Special equipment, {e.g. well seals and connections for well casings or the like}</li> </ul> </li> </ul>
<b>E03B 7/00</b>	<b>Water main or service pipe systems</b> (pipes or tubes in general <a href="#">F16L</a> )
E03B 7/003	<ul style="list-style-type: none"> <li>{ Arrangement for testing of watertightness of water supply conduits}</li> </ul>
E03B 7/006	<ul style="list-style-type: none"> <li>{ Arrangements or methods for cleaning or refurbishing water conduits}</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> <ul style="list-style-type: none"> <li>{ diverting initially cold water in warm water supply}</li> </ul> </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> <ul style="list-style-type: none"> <li>{ Arrangement of safety devices in domestic pipe systems, e.g. devices for automatic shut-off}</li> </ul> </li> </ul>
E03B 7/072	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>{ Arrangement of flowmeters}</li> </ul> </li> </ul>
E03B 7/074	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>{ Arrangement of water treatment devices}</li> </ul> </li> </ul>
E03B 7/075	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>{ Arrangement of devices for control of pressure or flow rate}</li> </ul> </li> </ul>
E03B 7/077	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>{ Arrangement of backflow preventing devices}</li> </ul> </li> </ul>
E03B 7/078	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>{ Combined units with different devices; Arrangement of different devices with respect to each other}</li> </ul> </li> </ul>
E03B 7/08	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>Arrangement of draining devices, { e.g. manual shut-off valves}(draining devices in general <a href="#">F16K</a>, <a href="#">F16L</a>)</li> </ul> </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</a>; <a href="#">devices for preventing contamination of drinking water pipes for domestic use E03C 1/10</a>; <a href="#">devices for preventing damage in case of bursts of pipes F16L</a>; <a href="#">heating of pipes in general F16L 53/00</a>)</li> </ul>
E03B 7/095	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>{ Component holders or housings, e.g. boundary boxes}</li> </ul> </li> </ul>
E03B 7/10	<ul style="list-style-type: none"> <li> <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> </li> </ul>
E03B 7/12	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>by preventing freezing</li> </ul> </li> </ul>
E03B 7/14	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>Devices for thawing frozen pipes</li> </ul> </li> </ul>

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