

# 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](#))

<b>1/00</b>	<b>Methods or layout of installations for water supply</b> ( <a href="#">E03B 3/00</a> , <a href="#">E03B 9/00</a> take precedence)	<b>3/40</b>	• Other devices for confining, e.g. trenches, drainage
1/02	• for public or like main supply {for industrial use}	<b>5/00</b>	<b>Use of pumping plants or installations; Layouts thereof</b> (pumps; pumping plants or installations <a href="#">per se</a> <a href="#">F04</a> )
1/04	• for domestic or like local supply	5/02	• arranged in buildings
1/041	• . {Greywater supply systems}	5/025	• . {with surface tanks}
1/042	• . . {Details thereof, e.g. valves or pumps}	5/04	• arranged in wells
1/044	• . . . {Switch valves in waste pipes}	5/045	• . {with surface tanks}
2001/045	• . . {using household water}	5/06	• . Special equipment, {e.g. well seals and connections for well casings or the like}
2001/047	• . . {using rainwater}		
1/048	• . {Systems for collecting not used fresh water}		
<b>3/00</b>	<b>Methods or installations for obtaining or collecting drinking water or tap water</b> (treatment of water <a href="#">C02F</a> )	<b>7/00</b>	<b>Water main or service pipe systems</b> (pipes or tubes in general <a href="#">F16L</a> )
3/02	• from rain-water	7/003	• {Arrangement for testing of watertightness of water supply conduits}
3/03	• . Special vessels for collecting or storing rain-water for use in the household, e.g. water-butts {containers for storage, in general, <a href="#">B65D</a> }	7/006	• {Arrangements or methods for cleaning or refurbishing water conduits}
3/04	• from surface water {Barrages <a href="#">E02B 7/00</a> }	7/02	• Public or like main pipe systems
3/06	• from underground {(consolidating foundation soil by draining, e.g. by lowering the water level <a href="#">E02D 3/00</a> ; subsoil filtering <a href="#">E21B 43/02</a> )}	7/04	• Domestic or like local pipe systems (domestic plumbing <a href="#">E03C 1/02</a> )
3/08	• . Obtaining and confining water by means of wells (applicable to a combination of water and other liquids or to other liquids only <a href="#">E21B 43/00</a> )	7/045	• . {diverting initially cold water in warm water supply}
3/10	• . . by means of pit wells	7/07	• Arrangement of devices, e.g. filters, flow controls, measuring devices, siphons, valves, in the pipe systems (devices <a href="#">per se</a> , <a href="#">see the relevant classes for these devices</a> )
3/11	• . . . in combination with tubes, e.g. perforated, extending horizontally, or upwardly inclined, exterior to the pits	7/071	• . {Arrangement of safety devices in domestic pipe systems, e.g. devices for automatic shut-off}
3/12	• . . by means of vertical pipe wells	7/072	• . {Arrangement of flowmeters}
3/14	• . . by means of horizontal or oblique wells	7/074	• . {Arrangement of water treatment devices}
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 <a href="#">E03B 3/32</a> ; cleaning, in general <a href="#">B08B</a> )	7/075	• . {Arrangement of devices for control of pressure or flow rate}
3/16	• . . Component parts of wells	7/077	• . {Arrangement of backflow preventing devices}
3/18	• . . . Well filters (filters in general <a href="#">B01D 24/00</a> - <a href="#">B01D 35/00</a> )	7/078	• . {Combined units with different devices; Arrangement of different devices with respect to each other}
3/20	• . . . . of elements of special shape	7/08	• . Arrangement of draining devices, {e.g. manual shut-off valves} (draining devices in general <a href="#">F16K</a> , <a href="#">F16L</a> )
3/22	• . . . . . Selection of specified materials {(not used, documents in <a href="#">E03B 3/20</a> )}	7/09	• Component parts or accessories (tools for cleaning pipes <a href="#">B08B 9/02</a> ; devices for preventing contamination of drinking water pipes for domestic use <a href="#">E03C 1/10</a> ; devices for preventing damage in case of bursts of pipes <a href="#">F16L</a> ; heating of pipes in general <a href="#">F16L 53/00</a> )
3/24	• . . . . . formed of loose materials, e.g. gravel	7/095	• . {Component holders or housings, e.g. boundary boxes}
3/26	• . . . . . with packed filtering material	7/10	• . Devices preventing bursting of pipes by freezing (devices preventing bursting of pipes in general <a href="#">F16L 55/00</a> )
3/28	• from humid air (condensing of vapours in general <a href="#">B01D 5/00</a> ; dehumidification of air for air-conditioning <a href="#">F24F 3/14</a> )	7/12	• . . by preventing freezing
3/30	• from snow or ice	7/14	• . Devices for thawing frozen pipes
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 <a href="#">E02D 3/00</a> )}		
3/34	• . of underground water	<b>9/00</b>	<b>Methods or installations for drawing-off water</b> (domestic water-drawing devices <a href="#">E03C</a> ; taps or valves <a href="#">per se</a> <a href="#">F16K</a> )
3/36	• . of surface water		
3/38	• Curbs for springs		

## E03B

- 9/02 . Hydrants; Arrangements of valves therein; Keys for hydrants
- 2009/022 . . {Hydrants with a tubular valve seat}
- 9/025 . . {Taps specially designed for outdoor use, e.g. wall hydrants, sill cocks}
- 9/027 . . . {with features preventing frost damage}
- 9/04 . . Column hydrants
- 9/06 . . . Covers
- 9/08 . . Underground hydrants
- 9/10 . . . Protective plates or covers
- 9/12 . . . Stand-pipes
- 9/14 . . Draining devices for hydrants
- 9/16 . . Devices for retaining foreign matter, e.g. sand
- 9/18 . . Cleaning tools for hydrants
- 9/20 . . Pillar fountains or like apparatus for dispensing drinking water
- 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](#))
- 2011/005 . {Tanks with two or more separate compartments divided by, e.g. a flexible membrane}
- 11/02 . for domestic or like local water supply
- 11/04 . . without air regulators {, i.e. without air inlet or outlet valves; water tanks provided with flexible walls}
- 11/06 . . with air regulators {(air receivers for water conduits [F16L 55/04](#); pressure control devices for fluids [G05D](#))}
- 11/08 . . . Air regulators
- 11/10 . for public or like main water supply
- 11/12 . . of high-level tanks
- 11/14 . . of underground tanks
- 11/16 . . Adaptations of devices for putting pumping plants in and out of operation, e.g. automatic control devices {(not used, documents in [F04](#))}