

CPC COOPERATIVE PATENT CLASSIFICATION

E FIXED CONSTRUCTIONS

BUILDING

E03 WATER SUPPLY; SEWERAGE

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](#))

1/00 Methods or layout of installations for water supply ([E03B 3/00](#), [E03B 9/00](#) take precedence)

- 1/02 . for public or like main supply {for industrial use}
- 1/04 . for domestic or like local supply
- 1/041 . . {Greywater supply systems}
- 1/042 . . . {Details thereof, e.g. valves or pumps}
- 1/044 {Switch valves in waste pipes}
- 2001/045 . . . {using household water}
- 2001/047 . . . {using rainwater}
- 1/048 . . {Systems for collecting not used fresh water}

3/00 Methods or installations for obtaining or collecting drinking water or tap water (treatment of water [C02F](#))

- 3/02 . from rain-water
- 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](#)}
- 3/04 . from surface water {barrages [E02B 7/00](#)}
- 3/06 . from underground {(consolidating foundation soil by draining, e.g. by lowering the water level [E02D 3/00](#); subsoil filtering [E21B 43/02](#))}
- 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](#))
- 3/10 . . . by means of pit wells
- 3/11 in combination with tubes, e.g. perforated, extending horizontally, or upwardly inclined, exterior to the pits
- 3/12 . . . by means of vertical pipe wells
- 3/14 . . . by means of horizontal or oblique wells
- 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](#)})
- 3/16 . . . Component parts of wells
- 3/18 Well filters (filters in general [B01D 24/00](#) - [B01D 35/00](#))
- 3/20 of elements of special shape
- 3/22 Selection of specified materials {(not used, documents in [E03B 3/20](#))}
- 3/24 formed of loose materials, e.g. gravel
- 3/26 with packed filtering material
- 3/28 . from humid air (condensing of vapours in general [B01D 5/00](#); dehumidification of air for air-conditioning [F24F 3/14](#))
- 3/30 . from snow or ice

- 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](#))}

- 3/34 . . of underground water

- 3/36 . . of surface water

- 3/38 . Curbs for springs

- 3/40 . Other devices for confining, e.g. trenches, drainage

5/00 Use of pumping plants or installations; Layouts thereof (pumps; pumping plants or installations [per se](#) [F04](#))

- 5/02 . arranged in buildings
- 5/025 . . {with surface tanks}
- 5/04 . arranged in wells
- 5/045 . . {with surface tanks}
- 5/06 . . Special equipment {, e.g. well seals and connections for well casings or the like}

7/00 Water main or service pipe systems (pipes or tubes in general [F16L](#))

- 7/003 . {Arrangement for testing of watertightness of water supply conduits}
- 7/006 . {Arrangements or methods for cleaning or refurbishing water conduits}
- 7/02 . Public or like main pipe systems
- 7/04 . Domestic or like local pipe systems (domestic plumbing [E03C 1/02](#))
- 7/045 . . {diverting initially cold water in warm water supply}
- 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](#))
- 7/071 . . {Arrangement of safety devices in domestic pipe systems, e.g. devices for automatic shut-off}
- 7/072 . . {Arrangement of flowmeters}
- 7/074 . . {Arrangement of water treatment devices}
- 7/075 . . {Arrangement of devices for control of pressure or flow rate}
- 7/077 . . {Arrangement of backflow preventing devices}
- 7/078 . . {Combined units with different devices; Arrangement of different devices with respect to each other}
- 7/08 . . Arrangement of draining devices, {e.g. manual shut-off valves} (draining devices in general [F16K](#), [F16L](#))

- 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 or cooling of pipes or pipe systems [F16L 53/00](#))
- 7/095 . . {Component holders or housings, e.g. boundary boxes}
- 7/10 . . Devices preventing bursting of pipes by freezing (devices preventing bursting of pipes in general [F16L 55/00](#))
- 7/12 . . . by preventing freezing
- 7/14 . . Devices for thawing frozen pipes
- 9/00 Methods or installations for drawing-off water** (domestic water-drawing devices [E03C](#); taps or valves per se [F16K](#))
- 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](#))}