

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](#))

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|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1/00 | Methods or layout of installations for water supply
(E03B 3/00 , E03B 9/00 take precedence) | 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)} |
| 1/02 | . for public or like main supply {for industrial use} | 3/34 | . . of underground water |
| 1/04 | . for domestic or like local supply | 3/36 | . . of surface water |
| 1/041 | . . {Greywater supply systems} | 3/38 | . Curbs for springs |
| 1/042 | . . . {Details thereof, e.g. valves or pumps} | 3/40 | . Other devices for confining, e.g. trenches, drainage |
| 1/044 | {Switch valves in waste pipes} | 5/00 | Use of pumping plants or installations; Layouts thereof (pumps; pumping plants or installations per se F04) |
| 2001/045 | . . . {using household water} | 5/02 | . arranged in buildings |
| 2001/047 | . . . {using rainwater} | 5/025 | . . {with surface tanks} |
| 1/048 | . . {Systems for collecting not used fresh water} | 5/04 | . arranged in wells |
| 3/00 | Methods or installations for obtaining or collecting drinking water or tap water (treatment of water C02F) | 5/045 | . . {with surface tanks} |
| 3/02 | . from rain-water | 5/06 | . . Special equipment{, e.g. well seals and connections for well casings or the like} |
| 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)} | 7/00 | Water main or service pipe systems (pipes or tubes in general F16L) |
| 3/04 | . from surface water {(barrages E02B 7/00)} | 7/003 | . {Arrangement for testing of watertightness of water supply conduits} |
| 3/06 | . from underground {(consolidating foundation soil by draining, e.g. by lowering the water level E02D 3/00 ; subsoil filtering E21B 43/02)} | 7/006 | . {Arrangements or methods for cleaning or refurbishing water conduits} |
| 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) | 7/02 | . Public or like main pipe systems |
| 3/10 | . . . by means of pit wells | 7/04 | . Domestic or like local pipe systems (domestic plumbing E03C 1/02) |
| 3/11 | in combination with tubes, e.g. perforated, extending horizontally, or upwardly inclined, exterior to the pits | 7/045 | . . {diverting initially cold water in warm water supply} |
| 3/12 | . . . by means of vertical pipe wells | 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) |
| 3/14 | . . . by means of horizontal or oblique wells | 7/071 | . . {Arrangement of safety devices in domestic pipe systems, e.g. devices for automatic shut-off} |
| 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)} | 7/072 | . . {Arrangement of flowmeters} |
| 3/16 | . . . Component parts of wells | 7/074 | . . {Arrangement of water treatment devices} |
| 3/18 | Well filters (filters in general B01D 24/00 - B01D 35/00) | 7/075 | . . {Arrangement of devices for control of pressure or flow rate} |
| 3/20 | of elements of special shape | 7/077 | . . {Arrangement of backflow preventing devices} |
| 3/22 | Selection of specified materials {(not used, documents in E03B 3/20)} | 7/078 | . . {Combined units with different devices; Arrangement of different devices with respect to each other} |
| 3/24 | formed of loose materials, e.g. gravel | 7/08 | . . Arrangement of draining devices, {e.g. manual shut-off valves} (draining devices in general F16K , F16L) |
| 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 | | |

- 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](#))
- 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](#))}