

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](#))

1/00	Methods or layout of installations for water supply (E03B 3/00 , E03B 9/00 take precedence)	3/40	. Other devices for confining, e.g. trenches, drainage
1/02	. for public or like main supply {for industrial use}	5/00	Use of pumping plants or installations; Layouts thereof (pumps; pumping plants or installations per se F04)
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}	7/00	Water main or service pipe systems (pipes or tubes in general F16L)
3/00	Methods or installations for obtaining or collecting drinking water or tap water (treatment of water C02F)	7/003	. {Arrangement for testing of watertightness of water supply conduits}
3/02	. from rain-water	7/006	. {Arrangements or methods for cleaning or refurbishing water 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, B65D }	7/02	. Public or like main pipe systems
3/04	. from surface water {Barrages E02B 7/00 }	7/04	. Domestic or like local pipe systems (domestic plumbing E03C 1/02)
3/06	. from underground {(consolidating foundation soil by draining, e.g. by lowering the water level E02D 3/00 ; subsoil filtering E21B 43/02)}	7/045	. . {diverting initially cold water in warm water supply}
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)	7/07	. 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)
3/10	. . . by means of pit wells	7/071	. . {Arrangement of safety devices in domestic pipe systems, e.g. devices for automatic shut-off}
3/11	. . . . in combination with tubes, e.g. perforated, extending horizontally, or upwardly inclined, exterior to the pits	7/072	. . {Arrangement of flowmeters}
3/12	. . . by means of vertical pipe wells	7/074	. . {Arrangement of water treatment devices}
3/14	. . . by means of horizontal or oblique wells	7/075	. . {Arrangement of devices for control of pressure or flow rate}
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)	7/077	. . {Arrangement of backflow preventing devices}
3/16	. . . Component parts of wells	7/078	. . {Combined units with different devices; Arrangement of different devices with respect to each other}
3/18	. . . . Well filters (filters in general B01D 24/00 - B01D 35/00)	7/08	. . Arrangement of draining devices, {e.g. manual shut-off valves} (draining devices in general F16K , F16L)
3/20	. . . . . of elements of special shape	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)
3/22	. . . . . Selection of specified materials {(not used, documents in E03B 3/20)}	7/095	. . {Component holders or housings, e.g. boundary boxes}
3/24	. . . . . formed of loose materials, e.g. gravel	7/10	. . Devices preventing bursting of pipes by freezing (devices preventing bursting of pipes in general F16L 55/00)
3/26	. . . . . with packed filtering material	7/12	. . . by preventing freezing
3/28	. from humid air (condensing of vapours in general B01D 5/00 ; dehumidification of air for air-conditioning F24F 3/14)	7/14	. . Devices for thawing frozen pipes
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)}	9/00	Methods or installations for drawing-off water (domestic water-drawing devices E03C ; taps or valves per se F16K)
3/34	. . of underground water		
3/36	. . of surface water		
3/38	. Curbs for springs		

- 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](#))}