

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](#))

WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

1/00	Methods or layout of installations for water supply (E03B 3/00 , E03B 9/00 take precedence)	3/28	• from humid air (condensing of vapours in general B01D 5/00 ; dehumidification of air for air-conditioning F24F 3/14)
1/02	• for public or like main supply {for industrial use}		
1/04	• for domestic or like local supply	3/30	• from snow or ice
1/041	• • {Greywater supply systems}	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)}
1/042	• • • {Details thereof, e.g. valves or pumps}		
1/044	• • • • {Switch valves in waste pipes}		
2001/045	• • • {using household water}		
2001/047	• • • {using rainwater}	3/34	• • of underground water
1/048	• • {Systems for collecting not used fresh water}	3/36	• • of surface water
3/00	Methods or installations for obtaining or collecting drinking water or tap water (treatment of water C02F)	3/38	• Curbs for springs
3/02	• from rain-water	3/40	• Other devices for confining, e.g. trenches, drainage
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)}	5/00	Use of pumping plants or installations; Layouts thereof (pumps; pumping plants or installations per se F04)
3/04	• from surface water {(barrages E02B 7/00)}	5/02	• arranged in buildings
3/06	• from underground {(consolidating foundation soil by draining, e.g. by lowering the water level E02D 3/00 ; subsoil filtering E21B 43/02)}	5/025	• • {with surface tanks}
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)	5/04	• arranged in wells
3/10	• • • by means of pit wells	5/045	• • {with surface tanks}
3/11	• • • • in combination with tubes, e.g. perforated, extending horizontally, or upwardly inclined, exterior to the pits	5/06	• • Special equipment {, e.g. well seals and connections for well casings or the like}
3/12	• • • by means of vertical pipe wells	7/00	Water main or service pipe systems (pipes or tubes in general F16L)
3/14	• • • by means of horizontal or oblique wells	7/003	• {Arrangement for testing of watertightness of water supply conduits}
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)	7/006	• {Arrangements or methods for cleaning or refurbishing water conduits}
3/16	• • • • Component parts of wells	7/02	• Public or like main pipe systems
3/18	• • • • • Well filters (filters in general B01D 24/00 - B01D 35/00)	7/04	• Domestic or like local pipe systems (domestic plumbing E03C 1/02)
3/20	• • • • • of elements of special shape	7/045	• • {diverting initially cold water in warm water supply}
3/22	• • • • • Selection of specified materials {(not used, documents in E03B 3/20)}	7/07	• Arrangement of devices, e.g. filters, flow controls, measuring devices, siphons or valves, in the pipe systems
3/24	• • • • • formed of loose materials, e.g. gravel	7/071	• • {Arrangement of safety devices in domestic pipe systems, e.g. devices for automatic shut-off}
3/26	• • • • • with packed filtering material	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}

E03B

- 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](#))}