E03B  INSTALLATIONS OR METHODS FOR OBTAINING, COLLECTING, OR DISTRIBUTING WATER (drilling wells, obtaining fluids in general from wells E21B; pipeline 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)
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)
Arrangement of backflow preventing devices

Combined units with different devices; Arrangement of different devices with respect to each other

Arrangement of draining devices, e.g. manual shut-off valves (draining devices in general F16K, F16L)

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)

Component holders or housings, e.g. boundary boxes

Devices preventing bursting of pipes by freezing (devices preventing bursting of pipes in general F16L 55/00)

by preventing freezing

Devices for thawing frozen pipes

Methods or installations for drawing-off water (domestic water-drawing devices E03C; taps or valves per se F16K)

Hydrants; Arrangements of valves therein; Keys for hydrants

Hydrants with a tubular valve seat

Taps specially designed for outdoor use, e.g. wall hydrants, sill cocks

with features preventing frost damage

Column hydrants

Covers

Underground hydrants

Protective plates or covers

Stand-pipes

Draining devices for hydrants

Devices for retaining foreign matter, e.g. sand

Cleaning tools for hydrants

Pillar fountains or like apparatus for dispensing drinking water

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)

Tanks with two or more separate compartments divided by, e.g. a flexible membrane

for domestic or like local water supply

without air regulators, i.e. without air inlet or outlet valves; water tanks provided with flexible walls

with air regulators (air receivers for water conduits F16L 55/04; pressure control devices for fluids G05D)

Air regulators

for public or like main water supply

of high-level tanks

of underground tanks

Adaptations of devices for putting pumping plants in and out of operation, e.g. automatic control devices (not used, documents in F04)