

Title (en)

WATER SUPPLY SYSTEM WITH FLUSHING CISTERN

Title (de)

TRINKWASSERLEITUNGSSYSTEM MIT EINEM SPÜLKASTEN

Title (fr)

SYSTÈME DE CONDUITE D'EAU POTABLE DOTÉ D'UN RÉSERVOIR DE CHASSE D'EAU

Publication

EP 4079980 B1 20230816 (DE)

Application

EP 22177765 A 20200225

Priority

- DE 102019105614 A 20190306
- EP 20159173 A 20200225

Abstract (en)

[origin: WO2020178062A1] The invention relates to a cistern (1), in particular a flush-mounted cistern, for a toilet or urinal, having: an outflow valve (2) which has a closure body (3) which can be lifted from a closed position into a flushing position, the closure body being in the form of an overflow pipe and having a seal which rests sealingly on a valve seat when in the closed position; at least one water supply pipe (13, 14); a valve assembly for letting in drinking water present in the water supply pipe (13, 14); a water drainage pipe (15) for draining the drinking water let in by the valve assembly; and a controller which generates a control signal for actuating the valve assembly depending on a sensor signal and/or when a predefined time interval has elapsed since the last time drinking water was drawn from a cold water pipe or hot water pipe connected to the water supply pipe (13, 14), the valve assembly letting in water from the water supply pipe depending on the control signal. According to the invention, the water drainage pipe (15) is designed such that it drains drinking water let in by the valve assembly directly into the overflow pipe (3). The cistern according to the invention makes it easier to maintain drinking water hygiene, provides the option of carrying out necessary hygiene flushes with relatively low water consumption, and allows hygiene flushing independently of the flushing water level.

IPC 8 full level

E03B 7/08 (2006.01); **E03D 1/14** (2006.01)

CPC (source: EP US)

E03B 7/08 (2013.01 - EP); **E03D 1/003** (2013.01 - US); **E03D 1/34** (2013.01 - US); **E03D 5/10** (2013.01 - US); **E03D 1/14** (2013.01 - EP)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 3705635 A1 20200909; **EP 3705635 B1 20230816**; **EP 3705635 C0 20230816**; CN 113544344 A 20211022; CN 113544344 B 20230804; DE 102019105614 A1 20200910; EP 4079980 A1 20221026; EP 4079980 B1 20230816; EP 4079980 C0 20230816; PL 3705635 T3 20231211; PL 4079980 T3 20240103; US 11732452 B2 20230822; US 2022162840 A1 20220526; WO 2020178062 A1 20200910

DOCDB simple family (application)

EP 20159173 A 20200225; CN 202080018937 A 20200225; DE 102019105614 A 20190306; EP 2020054812 W 20200225; EP 22177765 A 20200225; PL 20159173 T 20200225; PL 22177765 T 20200225; US 202017436264 A 20200225