

Title (en)

Release device for releasing fluid agents

Title (de)

Abgabevorrichtung zur Abgabe von Wirkstofffluiden

Title (fr)

Dispositif de distribution de substances actives liquides

Publication

**EP 2116656 B1 20110907 (DE)**

Application

**EP 09008185 A 20011109**

Priority

- EP 01996653 A 20011109
- DE 10057325 A 20001117
- DE 10113036 A 20010317
- DE 20113329 U 20010817
- DE 20116295 U 20011004

Abstract (en)

[origin: US2004068782A1] The invention relates to a dispensing device for dispensing active substance fluid into the flushing liquid inside a toilet bowl. The dispensing device comprises a holder (1) that can be suspended on the edge of the toilet bowl and comprises at least two reservoirs (2, 3), which are separate from one another, are provided inside the holder (1), and which each accommodate an active substance fluid. Each reservoir (2, 3) has its own discharge opening (4) via which the respective active substance fluid can be dispensed into the flushing liquid. The inventive dispensing device is characterized in that flushing liquid is not permitted to enter the interior of the reservoirs (2, 3), and the discharge openings (4) of the reservoirs (2, 3) are arranged so that only active substance fluid is discharged and a partial quantity of the active substance fluid is dispensed from each of the reservoirs (2,3) into the flushing liquid during each flushing.

IPC 8 full level

**E03D 9/03** (2006.01)

CPC (source: EP US)

**C11D 3/3956** (2013.01 - EP US); **C11D 3/48** (2013.01 - EP US); **C11D 3/50** (2013.01 - EP US); **C11D 17/0056** (2013.01 - EP US); **E03D 9/03** (2013.01 - EP US); **E03D 9/032** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

**US 2004068782 A1 20040415**; AR 031465 A1 20030924; AT E315140 T1 20060215; AT E501316 T1 20110315; AT E523640 T1 20110915; AU 7754701 A 20020527; CN 1474901 A 20040211; CR 6973 A 20060328; CZ 20031361 A3 20040317; CZ 299957 B6 20090107; CZ 305459 B6 20151007; CZ 305483 B6 20151021; CZ 305484 B6 20151021; DE 10113036 A1 20020606; DE 10113036 B4 20050217; DE 10164866 B4 20070614; DE 50108626 D1 20060330; DE 50115818 D1 20110421; EP 1334239 A1 20030813; EP 1334239 B1 20060104; EP 1614817 A1 20060111; EP 2116656 A1 20091111; EP 2116656 B1 20110907; EP 2123833 A1 20091125; EP 2123833 B1 20110309; ES 2206080 T1 20040516; ES 2206080 T3 20060616; ES 2361806 T3 20110622; ES 2370687 T3 20111221; HU 228554 B1 20130328; HU P0301545 A2 20060130; HU P0301545 A3 20060328; JP 2004526075 A 20040826; PL 196974 B1 20080229; PL 361188 A1 20040920; PT 2116656 E 20111121; PT 2123833 E 20110615; RO 120857 B1 20060830; RU 2266372 C2 20051220; SI 21141 A 20030831; SI 21141 B 20070228; SK 5812003 A3 20040608; TR 200301652 T3 20031121; UA 74854 C2 20060215; US 2004107484 A1 20040610; WO 0240791 A1 20020523

DOCDB simple family (application)

**US 41668103 A 20031023**; AR P010105364 A 20011116; AT 01955364 T 20010721; AT 09008185 T 20011109; AT 09008188 T 20011109; AU 7754701 A 20010721; CN 01818953 A 20010721; CR 6973 A 20030516; CZ 20031361 A 20010721; CZ 2008375 A 20010721; CZ 2008376 A 20010721; CZ 2008377 A 20010721; DE 10113036 A 20010317; DE 10164866 A 20010317; DE 50108626 T 20010721; DE 50115818 T 20011109; EP 0108461 W 20010721; EP 01955364 A 20010721; EP 05022491 A 20010721; EP 09008185 A 20011109; EP 09008188 A 20011109; ES 01955364 T 20010721; ES 09008185 T 20011109; ES 09008188 T 20011109; HU P0301545 A 20010721; JP 2002543093 A 20010721; PL 36118801 A 20010721; PT 09008185 T 20011109; PT 09008188 T 20011109; RO 200300387 A 20010721; RU 2003117796 A 20010721; SI 200120062 A 20010721; SK 5812003 A 20010721; TR 200301652 T 20010721; UA 2003065546 A 20010721; US 41665503 A 20031222