

Title (en)

DISPENSING DEVICE FOR DISPENSING ACTIVE SUBSTANCE FLUIDS INTO THE FLUSHING LIQUID INSIDE A TOILET BOWL

Title (de)

ABGABEVORRICHTUNG ZUR ABGABE VON WIRKSTOFFFLUIDEN IN DIE SPÜLFÜSSIGKEIT IN EINEM TOILETTENBECKEN

Title (fr)

DISPOSITIF DE DISTRIBUTION POUR AJOUTER DES FLUIDES ACTIFS A L'EAU DE LA CHASSE DANS UNE CUVETTE DE W.C.

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Application

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Priority

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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

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- GB 2349157 A 20001025 - UNILEVER PLC [GB]
- US 4709424 A 19871201 - DOLAN JOHN E [US]

Cited by

DE102013210435A1; WO2008110221A1; EP2305900A3; USD850578S; US8316471B2; USD841120S; WO2017129948A1; WO2014029510A1; DE102012214898A1; DE102008003358A1; DE102008003359A1; WO2010018005A1; DE102008037724A1; USD912761S; DE102007011991A1; EP2305900A2; EP2305901A2; US10344462B2; US10472811B2; USD914131S; DE102008037723A1; EP3002373A1; EP3002374A1; EP3002375A1; EP3002376A1

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