

Title (en)

Liquid active substance dispenser for w.c. bowl

Title (de)

Vorrichtung zur Abgabe eines flüssigen Wirkstoffs für Toilettenbecken

Title (fr)

Distributeur de substance liquide active pour cuvette de toilettes

Publication

EP 1387014 A2 20040204 (EN)

Application

EP 03077191 A 20030711

Priority

IT RE20020063 A 20020801

Abstract (en)

The dispenser comprises a closed bottle (11) containing active substance (R) in the liquid state, and a support means (50) for supporting said bottle (11). According to the invention there are provided a collection tray (15) supported by the support means and collecting water from the flushing flow in such a manner as to increase the water level in its interior, and a half-siphon (20) with an inlet (23) which draws water from the collection tray (15), and an outlet (24) positioned at a lower level than the inlet (23), to discharge water to the outside of the collection tray (15). Said half-siphon (20), on its action being triggered by the water level in the tray (15), draws water from the tray (15). The bottom of the interior of the bottle (11) communicates with the outside via a sized passage (26, 28, 32) able, when under static conditions, to prevent the active substance leaving through it; in addition, the suction side of the half-siphon (20) is connected to the interior of the bottle (11) via said sized passage (26, 28, 32) to draw a gauged quantity of active substance. <IMAGE>

IPC 1-7

E03D 9/03

IPC 8 full level

E03D 9/03 (2006.01)

CPC (source: EP)

E03D 9/032 (2013.01)

Citation (applicant)

- EP 0538957 A1 19930428 - SARA LEE DE NV [NL]
- WO 9966139 A1 19991223 - JOHNSON & SON INC S C [US], et al
- EP 0878586 A2 19981118 - BUCK CHEMIE GMBH [DE]
- EP 1046756 A1 20001025 - MANITOBA ITALIA SPA [IT]
- WO 0104428 A1 20010118 - DEOFLOR SPA [IT], et al

Cited by

EP4159940A1; WO2005108688A1; US11933032B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1387014 A2 20040204; EP 1387014 A3 20041020; IT RE20020063 A0 20020801; IT RE20020063 A1 20040202

DOCDB simple family (application)

EP 03077191 A 20030711; IT RE20020063 A 20020801