

Title (en)
Fluid dispenser

Title (de)
Spender für Medien

Title (fr)
Distributeur de fluide

Publication
EP 0985454 B1 20061102 (DE)

Application
EP 99117184 A 19990901

Priority
DE 19840721 A 19980907

Abstract (en)
[origin: US6250509B1] The dispenser orifice (13) may be closed off microbiologically tight by a valve plug (25) closing contrary to the direction of flow (11) and is opened against a spring (34) in the direction of flow (11). The medium gains access to the orifice (13) via throttling elements (22, 21, 49) so that it creeps practically non-pressurized to the attaching surface area (51) of a droplet former (50) where it accumulates into a droplet suspending in the upside-down position, as a result of which the medium contained in the dispenser (1) may be protected from germ contamination and the droplet may be simply administered to an eye or the like. Instead of being formed by a plunger pump (9) the delivery and compression chamber (15) may also be formed by a tube.

IPC 8 full level
A61M 11/00 (2006.01); **B05B 11/00** (2006.01); **B05B 11/04** (2006.01); **B05C 5/00** (2006.01); **B05C 17/005** (2006.01); **B65D 25/38** (2006.01); **B65D 47/20** (2006.01); **B65D 47/34** (2006.01); **B65D 83/14** (2006.01)

CPC (source: EP US)
B05B 11/00444 (2018.07 - EP US); **B05B 11/0059** (2013.01 - EP US); **B05B 11/0064** (2013.01 - EP US); **B05B 11/0072** (2013.01 - EP US); **B05B 11/0075** (2013.01 - EP US); **B05B 11/1004** (2023.01 - EP US); **B05B 11/1026** (2023.01 - EP US); **B05B 11/1053** (2023.01 - EP US); **B05B 11/107** (2023.01 - EP US); **B05B 11/1074** (2023.01 - EP US); **B65D 47/2075** (2013.01 - EP US)

Cited by
CN107352152A; US10220988B2; US10640268B2; US11155391B2; US11524822B2; EP2257476B2

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

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