

Title (en)

Manually operated sprayer for liquids.

Title (de)

Manuell betätigbarer Flüssigkeitszerstäuber.

Title (fr)

Pulvérisateur pour liquides actionnable manuellement.

Publication

EP 0441377 B1 19941207 (DE)

Application

EP 91101690 A 19910207

Priority

- DE 4004024 A 19900209
- DE 9001517 U 19900209

Abstract (en)

[origin: EP0441377A2] In a manually operated sprayer for liquids, the piston (6) of a piston pump, which piston can be displaced by means of a handle (3) counter to the force of a restoring spring (5), has two annular seals (8, 9) which can be distanced axially from one another with such a spacing that a ventilation line (32), which opens into its annular intermediate space (34), for a reservoir which is connected to the sprayer is sealed with respect to the pump chamber (7) both in the position of rest and in the maximum displacement position of the piston by the one annular seal (8) and is sealed with respect to the open end of the pump cylinder (10) by the other annular seal (9), in which case outside the position of rest there is a connection to the atmosphere only via a ventilation groove (37) formed in the wall of the pump cylinder. <IMAGE>

IPC 1-7

B05B 11/00

IPC 8 full level

B05B 11/00 (2006.01)

CPC (source: EP)

B05B 11/0044 (2018.07); **B05B 11/1011** (2023.01)

Cited by

EP0750947A3; FR2810301A1; FR2711554A1; US5492252A; FR2732188A1; ES2133214A1; WO0196030A1

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