

Title (en)

Manually operated trigger type dispenser.

Title (de)

Handbetätigter Flüssigkeitszerstäuber mit Betätigungshebel.

Title (fr)

Distributeur manuel fonctionnant avec une gâchette.

Publication

**EP 0202380 A1 19861126 (EN)**

Application

**EP 85307258 A 19851010**

Priority

JP 4698885 A 19850309

Abstract (en)

The dispenser piston (18) has a pair of spaced apart, annular seals (36, 37), which contact the inner wall of the cylinder (22) in a liquid-tight relation. A first vent (34) extending axially of the cylinder (22) and communicating with the interior of the container (12) from which liquid is dispensed is formed in the cylinder (22). When the piston (18) is in the at rest position, the vent (34) communicates with the space defined between the seals (36, 37) and the cylinder (22), and when the piston (18) is in the dispensing position the vent (34) communicates with the atmospheric air to prevent negative pressure being created in the container (12). A circular member (72) for suppressing liquid leakage through the vent (34) is fitted in the container cap (20) and defines a chamber (71). A second vent (82) is formed in the suppressing member (72).

IPC 1-7

**B65D 47/34**; **B05B 9/043**

IPC 8 full level

**B05B 7/00** (2006.01); **B05B 9/043** (2006.01); **B05B 11/00** (2006.01)

CPC (source: EP)

**B05B 7/0018** (2013.01); **B05B 11/0044** (2018.07); **B05B 11/1009** (2023.01); **B05B 11/1045** (2023.01); **B05B 11/0032** (2013.01); **B05B 11/0059** (2013.01)

Citation (search report)

- US 4072252 A 19780207 - STEYNS EMILE B, et al
- US 4480768 A 19841106 - MARTIN DOUGLAS S [US]
- US 4365751 A 19821228 - SAITO TADAO, et al
- DE 3341410 A1 19840524 - CESKOSLOVENSKA AKADEMIE VED [CS]

Cited by

EP0709143A3; EP0649682A3; US5697556A; US4915263A; CN1086963C; US5845820A; US5628461A; GB2232448A; GB2232448B; US7775405B2; US5810209A; EP0598237A3; AU671303B2; US5884845A; US5294025A; US5337928A; US5344053A; AU677938B2; AU679147B2; EP0360949A1; EP0819475A3; EP0894027A4; EP1609530A3; WO2016009192A1; WO9317956A1; WO9722417A1; WO9910047A1; WO8908506A1; WO9413547A1; EP1716932A1

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