

Title (en)

Piston of pump section of trigger-type liquid dispenser

Title (de)

Pumpenkolben vom Triggertyp-Flüssigkeitsspender

Title (fr)

Piston de pompe pour pulvérisateur de liquide à gachette

Publication

**EP 0894539 A3 19990804 (EN)**

Application

**EP 98114798 A 19920903**

Priority

- EP 98114798 A 19920903
- EP 92918710 A 19920903

Abstract (en)

[origin: EP0894539A2] A piston (101, 105) of a pump section (E) of a trigger-type liquid dispenser having integrally formed annular skirts (102, 104, 106, 108) extending respectively at an approach end and at a stroke end of the piston and held in close contact with an inner wall surface of a cylinder (H) of the pump section. Said annular skirt (106, 108) extending at the stroke end of the piston is provided with at least one notched section (109, 110) located at a position corresponding to said air intake port (23) provided on the peripheral wall of said cylinder. Thus, air is securely and surely introduced into the liquid container even if the trigger is moved repeatedly by only a short stroke in order to exhaust liquid at a reduced rate. <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); **B05B 11/0062** (2013.01)

Citation (search report)

- [A] US 4819835 A 19890411 - TASAKI TAKAHARU [JP]
- [A] US 4646969 A 19870303 - SORM MILOSLAV [CS], et al
- [A] US 4365751 A 19821228 - SAITO TADAO, et al
- [A] EP 0274620 A2 19880720 - CORSETTE DOUGLAS FRANK

Cited by

CN100402158C; US7597218B2; WO2004071673A1

Designated contracting state (EPC)

CH DE FR GB IT LI NL

DOCDB simple family (publication)

**EP 0894539 A2 19990203; EP 0894539 A3 19990804; EP 0894539 B1 20020605**

DOCDB simple family (application)

**EP 98114798 A 19920903**