

Title (en)

Spray pump, which produces pressure before spraying.

Title (de)

Zerstäubungspumpe, die einen Vordruck vor der Zerstäubung erzeugt.

Title (fr)

Pompe à précompression pour la diffusion d'un liquide.

Publication

EP 0346167 A1 19891213 (FR)

Application

EP 89401284 A 19890509

Priority

FR 8806287 A 19880510

Abstract (en)

The present invention relates to a precompression pump for spraying a liquid, comprising a first inner compression chamber (35) arranged inside a pump body between a valve (21) for closing an orifice (20) for drawing off the liquid in a reservoir bottle, and an orifice (16) for expelling the drawn-off liquid towards a spraying head (11); this chamber being of a volume which can vary by virtue of the fact that it is limited by a working piston (31) carried by a member which can move axially in the said pump body, characterised in that it comprises a second intermediate chamber (37) between the said first chamber (35) and the said expulsion orifice (16), and a precompression system comprising a needle piston (24) mounted inside the said moveable member but outside the said first chamber (35), and elastic means for stressing the said needle piston (24) towards a position blocking the expulsion orifice (16) from which the said needle piston (24) is freed when the liquid is pressurised in the said intermediate chamber (37), and in that the said second chamber (37) has communicating channels arranged longitudinally and distributed annularly in the said moveable member and opening out laterally around the said needle piston (24) in the vicinity of the said expulsion orifice (16). <IMAGE>

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IPC 8 full level

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B05B 11/0044 (2018.07); **B05B 11/1088** (2023.01)

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- [X] EP 0127449 B1 19870826
- [A] FR 2133259 A5 19721124 - STEP

Cited by

US6830163B2; EP0694336A1; CN100354048C; FR2838785A1; CN1317082C; US5881925A; DE19712256B4; US5918778A; EP0749786A1; US5702031A; US6047856A; CN1076990C; WO03086649A1

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