Title (en)

Dosing and spraying pump for dispensing liquid, low viscous and paste-like material.

Title (de)

Dosier- und Spraypumpe zur Abgabe flüssiger, niederviskoser und pastöser Stoffe.

Title (fr)

Pompe de dosage ou de pulvérisation pour délivrer des substances liquides, peu visqueuses ou pâteuses.

Publication

EP 0492354 B1 19940914 (DE)

Application

EP 91121564 A 19911217

Priority

DE 4041136 A 19901221

Abstract (en)

[origin: EP0492354A1] An elastic communicating bellows (3) is arranged to form a connection between two plastic housing components (1, 2) which are movable with respect to one another in a telescopic fashion in a metering and spraying pump for fluids and substances with low-viscosity and pasty substances, which communicating bellows has at one end an annular valve wall (15) as a discharge valve (15), which wall encloses the outer face (17) in a sealing and liftable manner of an annular wall (8) which is formed onto the first housing component (1). The communicating bellows (3) has at its other end an annular valve wall (54) as suction valve (58) which wall rests in a sealing and liftable manner against the outer face (43) of a valve seat (42) formed onto the second housing component (2), through which seat the pump medium is sucked into the communicating bellows (3). In order to ensure, with the smallest number of simple and easy-to-mount individual components, a high degree of functional reliability, in particular a seating quality, which can be tested also under dry conditions, with low valve opening forces, the annular valve wall (15) of the discharge valve (18) and the annular valve wall (54), provided with a closed end wall (57), of the suction valve (58) rest in each case against conical or cap-like outer faces (17, 43), in which case the two annular valve walls (15, 54) are connected to the communicating bellows (3) both radially elastically and resiliently movable in the axial direction. <IMAGE>

IPC 1-7

B05B 11/00

IPC 8 full level

B05B 11/00 (2006.01); **B65D 47/34** (2006.01); **F04B 9/14** (2006.01); **F04B 43/08** (2006.01)

CPC (source: EP KR US)

B05B 11/007 (2013.01 - EP US); **B05B 11/1001** (2023.01 - EP US); **B05B 11/1035** (2023.01 - EP US); **B05B 11/1064** (2023.01 - EP US); **B05B 11/1067** (2023.01 - EP US); **B05B 11/1069** (2023.01 - EP US); **B05B 11/1074** (2023.01 - EP US); **B05B 11/1077** (2023.01 - EP US); **F04B 45/02** (2013.01 - KR)

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CZ302532B6; US6033384A; AU703646B2; ITMI20130336A1; US6053433A; US5855322A; EP0696480A1; FR2723618A1; EP0705645A1; FR2725247A1; US11548022B2; US6302101B1; WO9615855A1; WO9611064A1; WO2019175349A1; WO2009003974A3; USRE43329E; USRE45589E; EP2613888B1

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