

Title (en)

Metering pump dispenser for liquid or pasty products.

Title (de)

Dosierpumpenspender für flüssige und/oder pastöse Medien.

Title (fr)

Distributeur à pompes doseuses pour produits liquides ou pateux.

Publication

EP 0520315 B1 19941026 (DE)

Application

EP 92110234 A 19920617

Priority

DE 4120644 A 19910622

Abstract (en)

[origin: US5224627A] The metering pump dispenser serves for simultaneous metered output of liquid and/or pasty media from at least two separate supply chambers (18, 19), which are arranged in a common pump housing (2) and to which are assigned individual separate metering pumps (5, 6), each with an intake and output valve (23, 24). The metering pumps are manually driven by a common actuating device (3), which extends on the side of actuation in a common front side of the metering pumps (5, 6) that are present and is provided with one or more output channels (57, 58). Metering pumps (5, 6) each have as pump devices communication bellows (21, 22) which are joined on the housing side with pump housing (2) and on the output side with the common actuating device (3). Actuating device (3) is a lever-type device mounted in a swiveling manner around a swivel seat (11) on one side in a head part (10) of pump housing (2) axially projecting over supply containers (18, 19), for conducting limited pump strokes. Swivel axis (11') of swivel seat (11) is arranged crosswise to a common plane of symmetry (20) of metering pumps (5, 6), so that metering pumps (5, 6) have variable distances and variably large actuation levers to the swivel axis (11'), and upon actuation of actuating device (3), pump strokes of different magnitude can be introduced in a specific, preselectable ratio at the same time and in the same direction.

IPC 1-7

B05B 11/00; **B65D 47/34**

IPC 8 full level

B05B 11/00 (2006.01); **F04B 13/02** (2006.01); **F04B 43/08** (2006.01)

CPC (source: EP KR US)

B05B 11/0038 (2018.07 - EP US); **B05B 11/0054** (2013.01 - EP US); **B05B 11/028** (2023.01 - EP US); **B05B 11/1005** (2023.01 - EP US); **B05B 11/103** (2023.01 - EP US); **B05B 11/1035** (2023.01 - EP US); **B05B 11/1083** (2023.01 - EP US); **B05B 11/1084** (2023.01 - EP US); **B67D 3/00** (2013.01 - KR)

Cited by

EP0751077A1; US5664703A; EP0565977A3; US5439178A; CN111532578A; DE102008024181B4; US5476195A; NL1002211C2; US5611463A; US5561901A; FR3098736A1; EP0745342A1; US5749495A; US5813573A; US5303867A; EP0755721A3; US5848732A; AU707965B2; US5971210A; EP3025614A4; WO2008007895A3; WO9727121A1; EP2123364A1; DE102008024181A1; US8205772B2

Designated contracting state (EPC)

ES FR GB IT

DOCDB simple family (publication)

EP 0520315 A1 19921230; **EP 0520315 B1 19941026**; DE 4120644 C1 19930325; ES 2062854 T3 19941216; JP 3288429 B2 20020604; JP H06173846 A 19940621; KR 930000374 A 19930115; TW 203588 B 19930411; US 5224627 A 19930706

DOCDB simple family (application)

EP 92110234 A 19920617; DE 4120644 A 19910622; ES 92110234 T 19920617; JP 16056292 A 19920619; KR 920010811 A 19920622; TW 81105343 A 19920706; US 90141392 A 19920619