

Title (en)
Actuating regulator.

Title (de)
Schubregler.

Title (fr)
Régulateur de poussée.

Publication
EP 0109361 A1 19840523 (FR)

Application
EP 83810512 A 19831108

Priority
CH 653482 A 19821110

Abstract (en)
[origin: WO8401930A1] In order to maintain constant the flow rate of a medium (18) ejected from a container by means of compressed gas, despite the pressure drop in the container, a device comprising a differential piston (2) having different diameter bearings (12, 13, 14) and bearing against a spring (3) slides in a discharge channel (8a) having different diameter bearings (8, 9, 10, 11), enlarges proportionally to the pressure drop of the container the passage cross-sections between the piston (2) and the inner wall of the discharged channel (8a) and causes by a direction change of the medium flow (18) turbulences of a force such that they provide a high flow braking when the container pressure is high and a weakening flow braking as said pressure decreases.

Abstract (fr)
Afin de maintenir constant le débit d'un médium (18), expulsé d'un récipient à l'aide d'un gaz comprimé, nonobstant la chute de pression dans le récipient, un dispositif, comprenant un piston différentiel (2), ayant des paliers à diamètres différents (12, 13, 14) et s'appuyant sur un ressort (3) coulisse dans un canal d'évacuation (8a) ayant des paliers à diamètres différents (8, 9, 10, 11) agrandie proportionnellement à la chute de pression du récipient les sections de passage entre le piston (2) et la paroi intérieure du canal d'évacuation (8a) et provoque, grâce à un changement de direction du flux du médium (18) des turbulences d'une force telle, qu'elles constituent un freinage du flux élevé lorsque la pression du récipient est forte et un freinage du flux faiblissant au fur et à mesure que baisse cette pression.

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B65D 83/14

IPC 8 full level
B05B 1/30 (2006.01); **B05B 1/34** (2006.01); **B65D 83/14** (2006.01); **B65D 83/16** (2006.01); **B65D 83/36** (2006.01); **B65D 83/44** (2006.01)

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Citation (search report)
• DE 1400733 A1 19720224 - AEROSOL INVENTIONS DEV [CH]
• LU 52220 A1 19670421
• CH 421009 A 19660915 - ESB VOEHRINGER [DE]
• US 3785571 A 19740115 - HOENING K

Cited by
FR3037048A1; FR2705323A1; FR2711973A1; US5042697A; US10246251B2; WO2016198257A1; EP3536634A1; US10661291B2

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