Title (en)

THRUST REGULATOR.

Title (de)

BETÄTIGUNGSREGLER.

Title (fr)

REGULATEUR DE POUSSEE.

Publication

EP 0124542 A1 19841114 (FR)

Application

EP 83903291 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), agrandit 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 de 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.

IPC 1-7

B65D 83/14

IPC 8 full level

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