

Title (en)

Pneumatic actuator with stroke end cushioning

Title (de)

Endlagengedämpfter Pneumatikzylinder

Title (fr)

Vérin pneumatique avec dispositif amortisseur de fin de course

Publication

**EP 1416166 B1 20051228 (DE)**

Application

**EP 03103653 A 20031002**

Priority

DE 10246766 A 20021007

Abstract (en)

[origin: EP1416166A1] The pneumatic cylinder, with a damping action on the movement into an end position, has a cylinder housing (1) which is closed at one end by a cylinder cover (2,3). A piston (5) has an axial movement within the cylinder, through the action of a pressure medium on at least one side, with a piston rod (6) passing through at least one cover in a sealed passage. The damper has a bush (12) sliding coaxially at the piston which, in the start position, projects from an end side surface (13) of the piston and which can be retracted on overcoming a reaction force in the piston. The far end of the bush closes a corresponding ring shaped exhaust air opening as the main flow cross section in the cylinder cover. At the end movement section (X), only a parallel exhaust air opening remains as a residual flow cross section.

IPC 1-7

**F15B 15/22**

IPC 8 full level

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CPC (source: EP)

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Cited by

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**EP 1416166 A1 20040506; EP 1416166 B1 20051228; DE 10246766 B3 20040701; DE 50302047 D1 20060202**

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