

Title (en)

Cylinder with adjustable end of stroke damping

Title (de)

Endlagengedämpfter Pneumatikzylinder mit verstellbarer Endlagendämpfung

Title (fr)

Cylindre à amortissement de fin de course réglable

Publication

**EP 1447571 B1 20050907 (DE)**

Application

**EP 04100496 A 20040210**

Priority

DE 10305954 A 20030212

Abstract (en)

[origin: DE10305954B3] Electromagnets (16a,b) are fastened to the outside of the cylinder (1), a short distance from the end caps (5a,b). The piston (2) has seals (3a,b) at either end, and has a piston rod (6) passing through a guide bush (8). Coil springs (11a,b) are attached to the ends of the piston and hold ring-shaped mechanical contact elements (10a,b) which can engage the end caps. Each spring can brake the motion of the piston as it is compressed from its working position (A) to its fully compressed position (G). Permanent magnets (15a,b) surround the springs and interact with the electromagnets.

IPC 1-7

**F15B 15/22**

IPC 8 full level

**F15B 15/22** (2006.01)

CPC (source: EP)

**F15B 15/223** (2013.01)

Cited by

EP1729015A1; EP1918592A1; CN105422542A; CN109530652A; DE102017117000A1; EP2107255A1; EP2107256A1; DE102009034790A1; DE102009034790B4; US7866252B2; US8234970B2

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