Title (en)

Pneumatic cylinder with self-adjusting cushioning at the end of stroke and corresponding method

Title (de)

Pneumatikzylinder mit einer selbsteinstellenden Endlagendämpfung und entsprechendes Verfahren

Title (fr)

Cylindre pneumatique avec amortissement à réglage automatique en position finale et procédé

Publication

EP 1998054 B1 20140813 (DE)

Application

EP 08156234 A 20080515

Priority

- AT 8282007 A 20070524
- AT 7142008 A 20080505

Abstract (en)

[origin: EP1998054A2] The cylinder (1) has an end position damping arrangement with a stroke space (9) that is delimited by a movable stroke element (7). The space is connected via a connecting duct (14) by working pressure (P1) or by ventilation pressure. The element is pressurized by a damping pressure (P2) via a damping duct (16) that includes a non-return valve (12) in the connecting duct upstream of the space. The valve blocks in direction of the working or ventilation pressure and includes a ventilation duct (5). The ventilation duct is opened by the element and is connected to the outlet duct. An independent claim is also included for a method for self-adjusting end position damping of a cylinder position.

IPC 8 full level

F15B 15/22 (2006.01)

CPC (source: EP US)

F15B 15/223 (2013.01 - EP US)

Cited by

CN102235400A; DE102016002705A1; DE102011051400B3; EP2541073A3; US9080584B2

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

EP 08156234 A 20080515; US 15362008 A 20080521