

Title (en)
End-of-stroke cushioning device

Title (de)
Endlagendämpfung

Title (fr)
Dispositif amortisseur de fin de course

Publication
EP 0949422 B1 20010919 (DE)

Application
EP 98123678 A 19981211

Priority
DE 29803739 U 19980304

Abstract (en)
[origin: US6047627A] A pressure medium driven device has a cylinder having a cylinder tube, means forming a discharge outlet for a pressure medium, a piston movable in the cylinder over a stroke having a stroke end which is dampened by a counter pressure generated by throttling the pressure medium within a dampening area prior to its dissipation into the discharge outlet, a piston ring held between the piston end the cylinder in the dampening area and used as a throttle, a dampening sleeve provided in the cylinder for guiding the piston into an end position, the piston ring extending under the action of internal tension beyond a piston diameter and expanding to a maximum internal diameter of a cone, the dampening sleeve having an internal cone causing a progressive dampening, the piston ring having a slit with a minimal width in the cylinder tube, the dampening sleeve being provided in the dampening area with radial boreholes which duct the pressure medium into longitudinal slots from which it reaches the discharge outlet.

IPC 1-7
F15B 15/22

IPC 8 full level
F15B 15/22 (2006.01); **F16F 9/00** (2006.01); **F16F 9/49** (2006.01)

CPC (source: EP US)
F15B 15/224 (2013.01 - EP US)

Cited by
EP3992469A1; DE10214864C5; DE202020004388U1; DE202009014682U1; DE202020004533U1; DE102010024505A1; DE102012217531A1; EP1998054A2; WO2022083811A1; WO2021129900A1; US11953033B2

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US 23553299 A 19990122; AT 98123678 T 19981211; DE 29803739 U 19980304; DE 59801513 T 19981211; EP 98123678 A 19981211; JP 3758399 A 19990216