

Title (en)
Pneumatic cylinder

Title (de)
Pneumatischer Stellantrieb

Title (fr)
Vérin pneumatique

Publication
EP 1416165 A3 20040915 (DE)

Application
EP 03022448 A 20031007

Priority
DE 10249509 A 20021023

Abstract (en)
[origin: EP1416165A2] The pneumatic setting drive (1) has a cylindrical housing (2) with at least one drive piston (3,4) with axial movements, moved by a working pressure between an inner and an outer limit stop setting. A rotating drive shaft (5), projecting radially from the housing, is coupled to the pistons to be rotated by their axial movements. A pneumatic damper (6) acts on the axial movements of the drive pistons, to prevent damage in the event that there is a blockage in the movements of the system being adjusted.

IPC 1-7
F15B 15/08; **F15B 15/22**

IPC 8 full level
F15B 15/08 (2006.01); **F15B 15/22** (2006.01)

CPC (source: EP)
F15B 15/065 (2013.01); **F15B 15/227** (2013.01)

Citation (search report)

- [XY] US 3213760 A 19651026 - PAUL CARR
- [Y] DE 3434033 A1 19850411 - SHOKETSU KINZOKU KOGYO KK [JP]
- [A] EP 0976931 A1 20000202 - G T COMPONENTI SRL [IT]
- [X] PATENT ABSTRACTS OF JAPAN vol. 1998, no. 11 30 September 1998 (1998-09-30)

Cited by
DE102007023303A1; WO2007006557A1; CN107690905A; CN107642517A; DE102007023303B4; CN107830010A; CN117450133A; DE202015102250U1; US7481161B2

Designated contracting state (EPC)
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