

Title (en)

Pneumatic cylinder with self-adjusting end position dampening

Title (de)

Pneumatikzylinder mit selbstjustierender Endlagendämpfung

Title (fr)

Cylindre pneumatique avec amortissement de fin de course à auto-ajustage

Publication

**EP 2541073 A3 20161102 (DE)**

Application

**EP 12171413 A 20120611**

Priority

DE 102011051400 A 20110628

Abstract (en)

[origin: EP2541073A2] The cylinder has a line connection (30) for connecting a control space (25) of a pneumatically steered control valve (21) with a region of an attenuation arrangement under pressurized ventilation. Ventilation pressure in the control space is sealable by a closure assembly (26) during a beginning of attenuation that is characterized by pressure increase in an attenuation chamber (20). The ventilation pressure acts as fixed control pressure on a control piston (23) of the control valve. An opening time point of the control valve is defined for releasing a ventilation path.

IPC 8 full level

**F15B 15/20** (2006.01); **F15B 15/22** (2006.01)

CPC (source: EP US)

**F15B 15/204** (2013.01 - EP US); **F15B 15/222** (2013.01 - EP US)

Citation (search report)

[XDI] EP 1998054 A2 20081203 - HOERBIGER ORIGA HOLDING AG [CH]

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**DE 102011051400 B3 20120606**; EP 2541073 A2 20130102; EP 2541073 A3 20161102; EP 2541073 B1 20200805; US 2013001031 A1 20130103; US 9080584 B2 20150714

DOCDB simple family (application)

**DE 102011051400 A 20110628**; EP 12171413 A 20120611; US 201213533333 A 20120626