

Title (en)
Retraction device

Title (de)
Einzugvorrichtung

Title (fr)
Dispositif de rétraction

Publication
EP 2526825 B1 20160413 (DE)

Application
EP 12167872 A 20120514

Priority
DE 102011050621 A 20110524

Abstract (en)
[origin: EP2526825A1] The device (10) has a coupling element (20), and a fluid-damper comprising a damping cylinder and a piston rod (32). A tension spring designed as a helical spring is attached to the coupling element, and an elastic element designed as a vibration damper works on the tension spring. The tension spring is arranged in a spring retainer of a housing (12). The elastic element applies transverse force on a part of spring windings and arranged in an area surrounded by the tension spring. The elastic element is made from felt material or water-repelling fibers.

IPC 8 full level
A47B 88/04 (2006.01); **E05F 1/16** (2006.01); **E05F 5/00** (2006.01)

CPC (source: EP)
A47B 88/467 (2016.12); **E05F 1/16** (2013.01); **E05F 5/003** (2013.01); **A47B 2210/0091** (2013.01); **E05Y 2201/264** (2013.01); **E05Y 2201/412** (2013.01); **E05Y 2201/488** (2013.01); **E05Y 2800/24** (2013.01); **E05Y 2900/20** (2013.01)

Citation (opposition)
Opponent : GEZE GmbH
• DE 102009020994 A1 20110105 - SIMON KARL GMBH & CO KG [DE]
• DE 1660550 U 19530806 - CONRAD BRUESSELBACH FA [DE]
• EP 1612449 A1 20060104 - BOSCH GMBH ROBERT [DE]
• EP 1902879 A2 20080326 - BOS GMBH [DE]
• US 5027557 A 19910702 - MAY MICHAEL M [US]
• DE 1961148 A1 19710609 - SULZER AG
• DE 19816229 A1 19991014 - BASF AG [DE]
• WO 2008100035 A1 20080821 - JANG JONG-BOK [KR]
• DE 202005015529 U1 20070215 - HETTICH PAUL GMBH & CO KG [DE]
• "Einzugsdaempfer mit Gummituelle - Zeichnungs-Nr. 10421-1-0193", DATENBLATT GEZE GMBH, 15 October 2009 (2009-10-15), XP055342527

Cited by
CN110520589A; CN106567634A; US10188208B2; AT515891A1; AT16876U1; EP3070248A1; CN105986725A; US9879459B2; WO2019066746A3

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

DOCDB simple family (publication)
EP 2526825 A1 20121128; EP 2526825 B1 20160413; DE 102011050621 A1 20121129; PL 2526825 T3 20161031

DOCDB simple family (application)
EP 12167872 A 20120514; DE 102011050621 A 20110524; PL 12167872 T 20120514