

Title (en)

SPRING ELEMENT FOR A VEHICLE SHOCK ABSORBER, AND VEHICLE SHOCK ABSORBER AND VEHICLE HAVING SAME

Title (de)

FEDERELEMENT FÜR EINEN FAHRZEUGSTOSSDÄMPFER, SOWIE FAHRZEUGSTOSSDÄMPFER UND FAHRZEUG MIT SELBIGEM

Title (fr)

ÉLÉMENT RESSORT POUR UN AMORTISSEUR DE VÉHICULE, AMORTISSEUR DE VÉHICULE ET VÉHICULE ÉQUIPÉ DE CELUI-CI

Publication

EP 3445995 A1 20190227 (DE)

Application

EP 17717738 A 20170418

Priority

- EP 16165744 A 20160418
- EP 2017059168 W 20170418

Abstract (en)

[origin: WO2017182460A1] The invention relates to a spring element (1) for a vehicle shock absorber. According to the invention, a spring element (1) is proposed, having a longitudinal axis (L) and a main body (3), which extends along the longitudinal axis and can be elastically deformed between an uncompressed base state and a state of compression in the direction of the longitudinal axis and has an end (9) having a stop surface (15a,b) designed for contacting a shock absorber cap of the vehicle shock absorber, wherein the stop surface (15a,b) is structured at least in some sections. The invention further relates to a vehicle shock absorber and to a vehicle, in particular a passenger vehicle, having such a spring element.

IPC 8 full level

F16F 9/58 (2006.01); **F16F 1/373** (2006.01); **F16F 1/376** (2006.01)

CPC (source: EP KR US)

B60G 11/22 (2013.01 - US); **F16F 1/3732** (2013.01 - EP KR US); **F16F 1/376** (2013.01 - EP KR US); **F16F 9/58** (2013.01 - EP KR US); **B60G 2202/143** (2013.01 - US); **B60G 2206/42** (2013.01 - US); **F16F 2224/025** (2013.01 - US); **F16F 2230/00** (2013.01 - US); **F16F 2230/02** (2013.01 - EP US)

Citation (search report)

See references of WO 2017182460A1

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)

WO 2017182460 A1 20171026; BR 112018071388 A2 20190205; CN 109073032 A 20181221; CN 109073032 B 20210831; EP 3445995 A1 20190227; JP 2019513961 A 20190530; KR 20180136503 A 20181224; US 11255402 B2 20220222; US 2019113097 A1 20190418

DOCDB simple family (application)

EP 2017059168 W 20170418; BR 112018071388 A 20170418; CN 201780024520 A 20170418; EP 17717738 A 20170418; JP 2019505288 A 20170418; KR 20187033298 A 20170418; US 201716093871 A 20170418