

Title (en)

Buffer for a vehicle-door or -lid

Title (de)

Anschlagpuffer für eine Tür oder Klappe eines Fahrzeuges

Title (fr)

Butée pour une porte ou un hayon de véhicule

Publication

EP 1691017 A3 20090422 (DE)

Application

EP 06001275 A 20060121

Priority

DE 102005006557 A 20050211

Abstract (en)

[origin: EP1691017A2] The stop absorber has a flexible spring element (1) bordering in its deflecting direction along with a convergent additional damping section (2) with at least two chambers (4,5) filled with a fluid, which consists of a nozzle plate (6) arranged between the chambers whereby the nozzle plate projects through the chambers having a connecting channel (7). Through the connecting channel, the fluid is pushed from one chamber to another chamber during deflecting of the elastomeric spring element under formation of compression force adding to the restoring force of the spring element.

IPC 8 full level

E05F 5/02 (2006.01)

CPC (source: EP US)

E05F 5/022 (2013.01 - EP US); **E05Y 2900/546** (2013.01 - EP US)

Citation (search report)

- [PX] DE 102004008046 A1 20050310 - BAYERISCHE MOTOREN WERKE AG [DE]
- [DA] WO 0208554 A1 20020131 - OPEL ADAM AG [DE], et al
- [DA] DE 19929953 A1 20000629 - DAIMLER CHRYSLER AG [DE]

Cited by

US10145443B2; US11078983B2; DE102022123266B3

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1691017 A2 20060816; EP 1691017 A3 20090422; EP 1691017 B1 20100519; DE 102005006557 A1 20060831;
DE 502006006955 D1 20100701; US 2006180964 A1 20060817; US 2009115116 A1 20090507; US 7703754 B2 20100427

DOCDB simple family (application)

EP 06001275 A 20060121; DE 102005006557 A 20050211; DE 502006006955 T 20060121; US 34374806 A 20060131;
US 35538209 A 20090116