

Title (en)

ENERGY ABSORPTION DEVICE FOR ABSORBING IMPACT ENERGY OF A VEHICLE

Title (de)

ENERGIEAUFNAHMEVORRICHTUNG ZUM AUFNEHMEN VON STOSSENERGIE EINES FAHRZEUGS

Title (fr)

DISPOSITIF D'ABSORPTION D'ENERGIE DESTINE A ABSORBER L'ENERGIE D'IMPACT D'UN VEHICULE

Publication

**EP 1819569 B1 20101201 (EN)**

Application

**EP 04803640 A 20041208**

Priority

EP 2004013972 W 20041208

Abstract (en)

[origin: WO2006061038A1] The invention relates to an energy absorption device (10) comprising a front impact beam (20), a back beam (40) and one or more energy absorbing elements (60), arranged between the front impact beam and the back beam, wherein the energy absorption device (10) comprises one or more sliding beams (30) that are rigidly connected to the front impact beam, the back beam having one or more openings (50), through which the one or more sliding beams (30) are fed, the openings guiding and limiting movement of sliding beams essentially to a direction parallel to a longitudinal axis of the sliding beams, and , wherein the energy absorbing elements (60) are arranged essentially parallel to the longitudinal axis of sliding beams. In another aspect of the invention there is provided a vehicle, in particular a track-bound vehicle comprising an energy absorption device (10) according to the invention, in particular a vehicle wherein the device is integrated in the structural frame of the front cabin of the vehicle.

IPC 8 full level

**B61D 15/06** (2006.01); **B61F 1/08** (2006.01)

CPC (source: EP)

**B61D 15/06** (2013.01); **B61F 1/10** (2013.01)

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 MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2006061038 A1 20060615**; AT E490141 T1 20101215; DE 602004030382 D1 20110113; EP 1819569 A1 20070822; EP 1819569 B1 20101201; ES 2357121 T3 20110418; PL 1819569 T3 20110531

DOCDB simple family (application)

**EP 2004013972 W 20041208**; AT 04803640 T 20041208; DE 602004030382 T 20041208; EP 04803640 A 20041208; ES 04803640 T 20041208; PL 04803640 T 20041208