

## Title (en)

Energy absorbing device and vehicle, especially railway vehicle, with such an absorbing device

## Title (de)

Vorrichtung zur Aufnahme von Energie und Fahrzeug, insbesondere Schienenfahrzeug, mit solch einer Aufnahme-Vorrichtung

## Title (fr)

Dispositif d'absorption d'énergie et véhicule, notamment ferroviaire, comportant un tel dispositif d'absorption

## Publication

**EP 0936118 A1 19990818 (FR)**

## Application

**EP 98400328 A 19980212**

## Priority

- EP 98400328 A 19980212
- FR 9701480 A 19970210

## Abstract (en)

The energy absorber (1) is interposed between the driving cab (2) and a bodywork (3). It has a parallelepiped shape, the largest face of which is located in a plane formed by the rear face (2A) of the driving cab and the front face (3A) of the bodywork. There are first (4) and second (5) plane facing rings not in contact. Pivots (6) integral with the upper part of the rings define a radial pivoting axis (X-X) in the top part of the driving cab. A shock absorber (9) is located in the lower part of the rings such that absorption occurs in the cab longitudinal direction. The cab chassis (10) is fixed to the lower part of the plane rings.

## Abstract (fr)

La présente invention porte sur un dispositif d'absorption d'énergie (1) de forme générale parallélépipédique susceptible d'être intercalé entre une cabine de conduite (2) et une caisse (3), les faces opposées dudit parallélépipède de plus grande surface sont disposées dans un plan formé par la face arrière (2A) d'une cabine de conduite (2) et dans un plan formé par la face avant (3A) d'une caisse (3), respectivement. <IMAGE>

## IPC 1-7

**B61D 15/06**; **B61D 17/06**; **B61G 11/00**

## IPC 8 full level

**B61D 15/06** (2006.01); **B61D 17/06** (2006.01); **B61F 19/04** (2006.01); **B61G 11/00** (2006.01)

## CPC (source: EP)

**B61D 15/06** (2013.01); **B61D 17/06** (2013.01); **B61G 11/00** (2013.01)

## Citation (search report)

- [A] DE 1123696 B 19620215 - BRUNO KIRCHHOFF DIPL ING
- [A] US 1693412 A 19281127 - WASHINGTON TAYLOR GEORGE
- [A] FR 2715904 A1 19950811 - SARDOU MAX [FR]
- [A] DE 482279 C 19290911 - NIKOLAUS BASENACH

## Cited by

DE102015205283A1; EP3725638A4; EP1215098A1; FR2818224A1; NO324083B1; US7597051B2; US6561105B2; WO2005028275A1; WO2022057424A1

## Designated contracting state (EPC)

AT BE CH DE ES FR GB IT LI

## DOCDB simple family (publication)

**EP 0936118 A1 19990818**; **EP 0936118 B1 20030806**; AT E246617 T1 20030815; CA 2226416 A1 19980810; CA 2226416 C 20061114; DE 69816961 D1 20030911; DE 69816961 T2 20040722; ES 2203898 T3 20040416; FR 2759338 A1 19980814; FR 2759338 B1 19990402; JP 4068708 B2 20080326; JP H10226334 A 19980825

## DOCDB simple family (application)

**EP 98400328 A 19980212**; AT 98400328 T 19980212; CA 2226416 A 19980209; DE 69816961 T 19980212; ES 98400328 T 19980212; FR 9701480 A 19970210; JP 2823098 A 19980210