

Title (en)  
Highway barrier.

Title (de)  
Aufprallschutz-Leitvorrichtung längs Strassen.

Title (fr)  
Glissière de protection devant un obstacle routier.

Publication  
**EP 0245042 A1 19871111 (EN)**

Application  
**EP 87303923 A 19870430**

Priority  
US 85859186 A 19860501

Abstract (en)  
A highway barrier (100) includes a collapsible guardrail assembly (140) and a rotatable beam (110) which is mounted between the rearward end of the guardrail assembly and a roadside hazard (102). The collapsible guardrail assembly includes a plurality of overlapping panels (142), adjacent ones of which are secured together by fasteners (150) riding in slots (144). The fasteners are designed to retain the panels together after the impact and the fasteners are positioned with respect to the panels to cause the panels to tend to rotate away from the roadside during the impact, thereby redirecting the vehicle away from the roadway. The beam (110) is rotatably mounted to the roadside hazard by a band (114) and the forward end of the beam as well as the forward end of each of the panels is supported above the ground on a respective slip base (156) designed to release in response to axial forces and to resist lateral forces. When an impacting vehicle engages the beam, the beam rotates away from the roadway around the roadside hazard (102), thereby redirecting the vehicle away from the hazard.

IPC 1-7  
**E01F 15/00**

IPC 8 full level  
**E01F 15/04** (2006.01); **E01F 15/06** (2006.01); **E01F 15/14** (2006.01)

CPC (source: EP)  
**E01F 15/143** (2013.01)

Citation (search report)

- [X] EP 0115685 A1 19840815 - ENERGY ABSORPTION SYSTEM [US]
- [A] US 1870639 A 19320809 - JOHN MUELLER
- [A] US 2121379 A 19380621 - YOUNG DAVID H
- [A] US 2974934 A 19610314 - WHITE ANDREW J
- [A] US 3796410 A 19740312 - KONSTANT A
- [A] FR 2238013 A1 19750214 - BIDOUS ANDRE [FR]
- [A] US 3643924 A 19720222 - FITCH JOHN C
- [A] US 3856268 A 19741224 - FITCH J
- [A] US 3845936 A 19741105 - BOEDECKER K, et al
- [A] US 1867671 A 19320719 - MASSOLL CURTIS A
- [A] FR 2161356 A5 19730706 - TUBAUTO
- [A] US 2004026 A 19350604 - RILEY WOOTEN GEORGE

Cited by  
US5078366A; CN115323961A; EP2987914A4; EP1365070A1; EP0952256A3; US6398192B1; US6488268B1; US6220575B1; US6299141B1; WO9850637A1; WO9932728A1; WO8906721A1

Designated contracting state (EPC)  
BE CH DE FR GB IT LI NL SE

DOCDB simple family (publication)  
**EP 0245042 A1 19871111**; **EP 0245042 B1 19900725**; AU 583726 B2 19890504; AU 7226187 A 19871105; CA 1291355 C 19911029; DE 3763895 D1 19900830; JP H07103539 B2 19951108; JP S62268409 A 19871121

DOCDB simple family (application)  
**EP 87303923 A 19870430**; AU 7226187 A 19870430; CA 535996 A 19870430; DE 3763895 T 19870430; JP 10878587 A 19870501