Title (en)

**GUARDRAIL END SHOCK ABSORBING DEVICE** 

Title (de

STOSSDÄMPFENDE VORRICHTUNG FÜR LEITPLANKENENDE

Title (fr)

DISPOSITIF D'ABSORPTION DE CHOC D'EXTRÉMITÉ DE RAIL DE PROTECTION

Publication

EP 2987914 A4 20161207 (EN)

Application

EP 14786109 A 20140411

Priority

- KR 20130042804 A 20130418
- KR 20130092255 A 20130802
- KR 2014003137 W 20140411

Abstract (en)

[origin: EP2987914A1] The present invention relates to a guardrail end shock absorbing device. The device includes a plurality of support columns (10) each consisting of a lower part (11) mounted on the ground and an upper part (12) connected to the top of the lower part (11) so as to move relatively thereto. The upper part (12) is fastened to both ends of the guardrail (30). The upper part (12) is fastened through a rail bracket (20) to guardrail (30) by means of a third fastener (38) and a spacer bar (39). A first and a second connection flange (14, 16) are provided between the lower part (11) and the upper part (12), wherein the connection flange (14, 16) is provided with a first and a second fastening hole (15, 17) open to both side ends of the guardrail (30), the open part of the first and the second fastening hole (15, 17) being provided with a first and a second guide slope (15', 17') respectively. The connection flanges (14, 16) are fastened by a first fastener (19) penetrating simultaneously the open fastening holes (15, 17). The first connection flange (14) is provided with a guide part to guide the moving upper part (12). The present invention enables the lower part (11) and the upper part (12) to separate in a head-on collision so as to make the frictional force between the guardrail (30) and the spacer bar (39) dissipate in the form of thermal energy, thus absorbing shock.

IPC 8 full level

E01F 15/14 (2006.01)

CPC (source: EP KR)

E01F 15/14 (2013.01 - KR); E01F 15/143 (2013.01 - EP)

Citation (search report)

- [A] P 0245042 A1 19871111 ENERGY ABSORPTION SYSTEM [US]
- See references of WO 2014171672A1

Cited by

CN111501624A

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

DOCDB simple family (publication)

EP 2987914 A1 20160224; EP 2987914 A4 20161207; KR 101339447 B1 20131210; WO 2014171672 A1 20141023

DOCDB simple family (application)

EP 14786109 Á 20140411; KR 20130092255 A 20130802; KR 2014003137 W 20140411