

Title (en)
Crash cushion apparatus

Title (de)
Aufpralldämpfer

Title (fr)
Appareil d'amortisseur d'impact

Publication
EP 2685003 A3 20141217 (EN)

Application
EP 12188548 A 20121015

Priority
KR 20120075396 A 20120711

Abstract (en)
[origin: EP2685003A2] Disclosed is a crash cushion apparatus including a front impact absorption portion; a guardrail connection device having support frames, guardrails installed on both sides of the support frames and adapted to move, and connection plates for connecting the support frames and the guardrails; a rear support fixed to the ground and provided with a wire fixing plate for connecting a wire rope; a movable plate installed on one side of the rear support and adapted to move leftwards/rightwards along slots; cushion tanks; and a wire rope. The support frames and the rear support are connected by the wire rope. The crash cushion apparatus can absorb shock energy resulting not only from a front collision, but also from a lateral collision, in a stepwise manner.

IPC 8 full level
E01F 15/14 (2006.01)

CPC (source: EP KR)
E01F 15/14 (2013.01 - KR); **E01F 15/146** (2013.01 - EP)

Citation (search report)

- [A] EP 2418325 A2 20120215 - SHINDO INDUSTRY CO LTD [KR]
- [A] KR 101022533 B1 20110316 - SHINDO INDUSTRY CO LTD [KR]
- [A] US 6536986 B1 20030325 - ANGHILERI MARCO [IT], et al

Cited by
CN111789051A; CN113957826A; CN106638395A; CN113445451A; CN106320226A; US11453988B2; CN117344860A; EP3366841B1

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2685003 A2 20140115; EP 2685003 A3 20141217; KR 20140008649 A 20140122

DOCDB simple family (application)
EP 12188548 A 20121015; KR 20120075396 A 20120711