

Title (en)  
Impact attenuator

Title (de)  
Aufpralldämpfer

Title (fr)  
Amortisseur d'impact

Publication  
**EP 2418325 A3 20150603 (EN)**

Application  
**EP 11175519 A 20110727**

Priority  
KR 20100077206 A 20100811

Abstract (en)  
[origin: EP2418325A2] An impact attenuator includes: a plurality of support frames installed in a row at an interval, each support frame having first and second horizontal beams, a reinforcing member installed between the first and second horizontal beams, and at least one wire clip installed under the first horizontal beam; a rear support integrally formed with one of the support frames and having a vertical beam; a plurality of guard rail connecting units, each guard rail connecting unit including guard rails installed on opposite sides of each of the support frames and a fixing member for movably installing the guard rails; and an absorbing tank including a front tank installed on a front surface of one of the support frames and a plurality of cushion tanks installed between the support frames, wherein a wire rope connects the support frames and the rear support to guide linear movements of the support frames.

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

CPC (source: EP)  
**E01F 15/146** (2013.01)

Citation (search report)  
• [XYI] KR 100668759 B1 20070116 - SHINDO INDUSTRY CO LTD [KR]  
• [XYI] CN 101343863 A 20090114 - SHINDO QINGDAO CO LTD [CN]  
• [XY] US 2006103061 A1 20060518 - KENNEDY JAMES C JR [US], et al  
• [XYI] CA 2460548 A1 20030403 - BARRIER SYSTEMS INC [US]  
• [Y] FR 2756852 A1 19980612 - PHOENIX FRANCE [FR]

Cited by  
CN106758978A; US11692604B2; EP2685003A3; RU2633599C1; US11453988B2; US2015259866A1; US10060154B2; GB2542276B; WO2017222412A1

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 2418325 A2 20120215; EP 2418325 A3 20150603**; CN 103069078 A 20130424; CN 103069078 B 20160817; JP 2013535601 A 20130912; JP 5592013 B2 20140917; KR 101150938 B1 20120529; KR 20120015020 A 20120221; WO 2012020975 A2 20120216; WO 2012020975 A3 20120510

DOCDB simple family (application)  
**EP 11175519 A 20110727**; CN 201180039896 A 20110810; JP 2013524036 A 20110810; KR 20100077206 A 20100811; KR 2011005816 W 20110810