

Title (en)

Improved system for contention of lateral vehicle impact, with a high capacity of contention and of energy absorption

Title (de)

Verbessertes Dämpfungssystem für seitlichen Fahrzeugaufprall mit hoher Dämpfungs- und Energieabsorptionskapazität

Title (fr)

Système amélioré de contention d'impact latéral de véhicule, avec une capacité élevée de contention et d'absorption d'énergie

Publication

EP 1918460 B1 20101117 (EN)

Application

EP 07380104 A 20070413

Priority

ES 200602775 A 20061031

Abstract (en)

[origin: EP1918460A1] Improved system for contention of lateral vehicle impact with a high capacity of contention and of energy absorption, characterized by comprising a vertical post (2) that has a fold or acute dihedral angle (15) placed at a given height in such a manner that its lower segment is vertical and its upper segment, which is an extension of the lower segment, is tilted towards the front, advancing the rail forward towards traffic, and also characterized by having a continuous horizontal non-stressed tie (4) to prevent the post (2) from being released from the system in case of impact, and because it incorporates, between the lower rail (1) and the post (2), an spacer-shock absorbing element (3) comprising a rigid part (19) and a deformable part (20), all of it intended to attain a high capacity to absorb the energy resulting from a vehicle colliding against it, to redirect the vehicle, to decrease the deceleration levels, to gain control over the vehicle during and after impact, and also to decrease the possibility of non-desired post-impact reactions of the vehicle, as well as endowing the system with a high capacity to control the dissipation of the absorbed energy and with a certain ability to deform similarly after each impact of a vehicle.

IPC 8 full level

E01F 15/02 (2006.01); **E01F 15/04** (2006.01)

CPC (source: EP)

E01F 15/025 (2013.01); **E01F 15/0461** (2013.01)

Citation (examination)

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Cited by

EP2514876A1; GB2464905B; WO2013164097A1

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Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

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