

Title (en)
Anti-crashing safety device, particularly for road guard-rails

Title (de)
Anti-aufprall Sicherheitseinrichtung, insbesondere für Leitplanken

Title (fr)
Dispositif de sécurité anti-choc, en particulier pour glissière de sécurité routière

Publication
EP 0698689 A1 19960228 (EN)

Application
EP 95830320 A 19950724

Priority
IT FR940010 A 19940801

Abstract (en)
A plurality of elements (3) suitably shaped, coupled to each other along the longitudinal direction and fixed in the ground by poles (1) and like, said device comprising at least a tension wire (4) fixed close by said elements (3) realizing the guard-rail, provided at its ends with a fixing and/or traction device, and coupling means (2) between said elements (3) and said poles (1) or like for the fixing to the ground, determining in case of crash an upward and backward motion of the guard-rail elements (3), and a contemporaneous maximum extensions of said at least one tension wire (4).
<MATH>

IPC 1-7
E01F 15/02; E01F 15/04

IPC 8 full level
E01F 15/02 (2006.01); **E01F 15/04** (2006.01)

CPC (source: EP)
E01F 15/025 (2013.01); **E01F 15/043** (2013.01); **E01F 15/0438** (2013.01)

Citation (search report)
• [XY] DE 4224998 C1 19930826
• [XA] US 2317248 A 19430420 - BRICKMAN ALAN E
• [XA] US 3284054 A 19661108 - ST PIERRE HENRY
• [YA] CH 419214 A 19660831 - GYSI AG GEB [CH]
• [Y] AT 330233 B 19760625 - VMW RANSHOFFEN BERNDORF AG [AT]
• [Y] DE 2730383 A1 19790118 - URLBERGER KARL ANTON HANS
• [A] WO 8603820 A1 19860703 - SAPA AB [SE]

Cited by
EP1832681A1; EP2218826A3; DE102009034758A1; EP1762660A1; DE102006001980A1; US5720470A; US2021115635A1; US11933003B2; WO2007095674A1

Designated contracting state (EPC)
AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
EP 0698689 A1 19960228; IT FR940010 A0 19940801; IT FR940010 A1 19960202; IT FR940010 A3 19960201

DOCDB simple family (application)
EP 95830320 A 19950724; IT FR940010 A 19940801