

Title (en)
VEHICLE PASSAGE CONTROL DEVICE

Title (de)
FAHRZEUGDURCHGANG-STEUERUNGSVORRICHTUNG

Title (fr)
DISPOSITIF DE CONTRÔLE DU PASSAGE DE VÉHICULES

Publication
EP 2402509 A1 20120104 (EN)

Application
EP 10746214 A 20100224

Priority
• JP 2010052812 W 20100224
• JP 2009042562 A 20090225

Abstract (en)
Disclosed is a vehicle passage control device capable of suppressing damage and breakage of an opening/closing bar thereof to the minimum, and suppressing damage and the like of a vehicle to the minimum even if the vehicle collides with the opening/closing bar. The vehicle passage control device is a vehicle passage control device in which an opening/closing bar 12 that regulates passage of a vehicle is provided, the vehicle passage control device being installed at a passage gate of an entrance or exit of a toll road or the like. The vehicle passage control device performs opening/closing control for the opening/closing bar 12 to rotationally move and upspring obliquely upward in front in a passing direction of the vehicle. An inclined angle θ at which the opening/closing bar 12 rotationally moves and upsprings obliquely upward remains within a range from approximately 25 degrees to approximately 55 degrees with respect to a road surface. A vehicle sensing sensor that senses a vehicle approaching a front of the opening/closing bar 12 is provided, and an instruction to open the opening/closing bar 12 is issued when the vehicle is sensed by the vehicle sensing sensor. When a predetermined load or more is applied to the opening/closing bar 12, an instruction to perform an opening operation is issued to the opening/closing bar 12.

IPC 8 full level
E01F 13/04 (2006.01)

CPC (source: EP KR US)
E01F 13/04 (2013.01 - KR); **E01F 13/06** (2013.01 - EP KR US)

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US 2011271593 A1 20111110; CN 102317546 A 20120111; CN 102317546 B 20150401; EP 2402509 A1 20120104; EP 2402509 A4 20130522; JP 2010196367 A 20100909; JP 5264554 B2 20130814; KR 101393471 B1 20140513; KR 20110104985 A 20110923; WO 2010098334 A1 20100902

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