

Title (en)

A hinge with integrated door-stop device for vehicle doors

Title (de)

Kraftwagentürscharnier mit integriertem Türfeststeller

Title (fr)

Charnière avec arrêt-porte intégré pour porte de véhicule

Publication

EP 2354400 B1 20131204 (EN)

Application

EP 10425022 A 20100203

Priority

EP 10425022 A 20100203

Abstract (en)

[origin: EP2354400A1] A hinge for vehicle doors, comprising: - a first hinge element (12) comprising a fixing portion (20) and an articulation portion (24), wherein the fixing portion (20) is equipped with holes for fixing the first hinge element (12) to an upright of a vehicle and wherein the articulation portion (24) has a through hole (26) with a longitudinal axis defining a hinge axis (A) and a first face and a second face (30, 32); - a hinge pin (34), which is axially fixed and rotatable about said hinge axis (A) with respect to the first hinge element (12), said hinge pin (34) having a head portion (36) and an articulation portion (38) with circular cross section that engages said through hole (26) of said first hinge element (12) in a rotatable way, wherein the head portion (36) of the hinge pin (34) protrudes from the first face (38) of said first hinge element (12); - a second hinge element (14) fixed in a removable way to the head portion (36) of said hinge pin (34); and - a door-stop device (16) associated to said first hinge element (12) and to said hinge pin (34) for withholding the hinge pin (34) in a plurality of angular positions, wherein said hinge pin (34) comprises an integral retention portion (40) that extends axially from the articulation portion (38) and that protrudes from the second face (32) of said first hinge element (12), and wherein said door-stop device (16) comprises: - a casing (54) having a blind hole (56) and a front surface (58) in contact with said second face (32) of said first hinge element (12); and - at least one elastic retention element (68) with a substantially U-shaped cross section, which has a shape elongated in the direction of said hinge axis (A), the elastic retention element (68) having a retention seat (74) in which the retention portion (40) of said hinge pin (34) is engaged with radial interference.

IPC 8 full level

E05D 11/08 (2006.01)

CPC (source: EP)

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Designated contracting state (EPC)

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Designated extension state (EPC)

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DOCDB simple family (publication)

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