

Title (en)
Vehicle door check mechanism.

Title (de)
Türfeststeller für Kraftfahrzeuge.

Title (fr)
Dispositif d'arrêt pour porte de véhicule automobile.

Publication
EP 0418783 A1 19910327 (EN)

Application
EP 90117861 A 19900917

Priority
• US 40939189 A 19890918
• US 58056590 A 19900911

Abstract (en)
A door check mechanism for regulating pivotal movement of a vehicle door (37) between a closed position and one or more open positions, which mechanism is sometimes incorporated in a hinge, includes an elongated track member (36) having a track surface (46) with at least one detent receptacle (48, 49) in that track surface (46); a detent roller (56) engages the track surface (46) in rolling pressure contact at least part of the time whenever the door (37) moves between its open and closed positions. A second detent member (57) may engage a second track surface (47) on the track member (36); the second detent member (57) may also be a roller. Either the detent roller (56, 57) or the track has a resilient elastomer core (64), preferably an elastomer material (e.g., a silicone polymer) that retains its elastic properties over a temperature range that extends much higher than any temperature usually endurable by humans; the core (64) is usually covered by a hard, relatively non-elastic but flexible sheath (66). The engaging portions of the roller and track surfaces are preferably dissimilar materials, usually a metal and a resin.

IPC 1-7
E05C 17/20

IPC 8 full level
E05C 17/22 (2006.01); **B60J 5/04** (2006.01); **E05C 17/20** (2006.01)

CPC (source: EP)
E05C 17/206 (2013.01)

Citation (search report)
• [X] EP 0165693 A2 19851227 - FORD MOTOR CO [GB], et al
• [X] FR 2284740 A1 19760409 - PAUMELLERIE ELECTRIQUE [FR]
• [Y] DE 2406906 A1 19750828 - VOLKSWAGENWERK AG
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• [Y] DE 2123536 A1 19721228
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DOCDB simple family (application)
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