

Title (en)
VEHICLE DOOR CHECK MECHANISM

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EP 0418783 B1 19930901 (EN)

Application
EP 90117861 A 19900917

Priority
• US 40939189 A 19890918
• US 58056590 A 19900911

Abstract (en)
[origin: EP0418783A1] 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.

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E05C 17/20

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

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

Cited by
EP0816612A1; DE4439821C2; DE10058432B4; DE4325550C2; DE19951256A1; DE19951256C2; GB2278399A; GB2278399B; GB2355489A; GB2355489B; US7552953B2; WO2012131187A1; WO9317209A1; WO0248489A3

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