

Title (en)  
DOOR CLOSER

Publication  
**EP 0146693 B1 19890524 (DE)**

Application  
**EP 84110790 A 19840911**

Priority  
DE 3345004 A 19831213

Abstract (en)  
[origin: US4658468A] A door check wherein a housing is affixed to the pivotable panel and a guide rail is affixed to the frame of a door. The housing contains a shaft which is rigidly connected with one end of an arm the other end of which is slidably guided by the rail. The shaft carries a disc cam having two asymmetric sections one of which is tracked by a spring-biased follower tending to return the panel to its closed position and the other of which is tracked by the piston of a damper which yieldably opposes the movement of the panel back to its closed position. The configuration of the two cam sections is selected with a view to allow for a reduction of the resistance which the follower offers to opening of the door shortly after the panel leaves its closed position as well as to ensure that the damper can operate independently of the follower and vice versa.

IPC 1-7  
**E05F 3/10**

IPC 8 full level  
**E05F 3/18** (2006.01); **E05F 3/10** (2006.01); **F16F 9/00** (2006.01)

CPC (source: EP US)  
**E05F 3/104** (2013.01 - EP US); **E05F 3/227** (2013.01 - EP US); **E05F 2003/228** (2013.01 - EP US); **E05Y 2201/11** (2013.01 - EP US); **E05Y 2201/492** (2013.01 - EP US); **E05Y 2201/638** (2013.01 - EP US); **E05Y 2201/688** (2013.01 - EP US); **E05Y 2600/40** (2013.01 - EP US); **E05Y 2800/17** (2013.01 - EP US); **E05Y 2800/22** (2013.01 - EP US); **E05Y 2900/132** (2013.01 - EP US); **Y10S 16/10** (2013.01 - US); **Y10S 16/17** (2013.01 - US)

Cited by  
DE102013100293A1; CN102454326A; FR2693501A1; JP2014070442A; FR2594474A1; EP0244506A3; EP2138662A3; EP2623699A1; FR2860027A1; EP1518989A1; WO0042282A1; WO2023110860A1

Designated contracting state (EPC)  
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