

Title (en)  
Outer door handle for vehicles

Title (de)  
Türaussengriff für Fahrzeuge

Title (fr)  
Poignée extérieure pour véhicules

Publication  
**EP 1243724 A3 20031217 (DE)**

Application  
**EP 02003947 A 20020222**

Priority  
DE 10114583 A 20010324

Abstract (en)  
[origin: EP1243724A2] The device acts on a lock via a connecting element and has a normally inoperative crash lock and a crash sensor responsive to inertial force that activates the crash lock in a crash. The crash lock blocks the connecting element and does not transfer an inertial force on the handle to the lock. The connecting element has a drive element that moves in a liquid medium whose viscosity varies depending on an electric field controlled by the sensor. The device acts on a lock via a connecting element (31) when operated and has a crash lock (30) for the connecting element that is normally inoperative and a crash sensor responsive to inertial force that activates the crash lock in the event of a crash. The crash lock blocks the connecting element and does not transfer an inertial actuation force on the handle to the lock. The connecting element has a drive element (32) that moves with it in a liquid medium (40) whose viscosity varies depending on an applied electric field controlled by the crash sensor.

IPC 1-7  
**E05B 7/00**; **E05B 65/20**; **E05B 51/02**; **E05B 17/20**; **E05B 65/12**

IPC 8 full level  
**E05B 7/00** (2006.01); **E05B 17/20** (2006.01); **E05B 51/02** (2006.01); **E05B 65/12** (2006.01); **E05B 65/20** (2006.01); **E05B 77/06** (2014.01); **E05B 77/42** (2014.01); **E05B 17/00** (2006.01); **E05B 85/18** (2014.01)

CPC (source: EP US)  
**E05B 77/06** (2013.01 - EP US); **E05B 77/42** (2013.01 - EP US); **E05B 85/18** (2013.01 - EP US); **E05B 2047/0033** (2013.01 - EP US); **Y10S 292/23** (2013.01 - EP US); **Y10S 292/65** (2013.01 - EP US); **Y10T 292/57** (2015.04 - EP US)

Citation (search report)

- [A] WO 0111172 A1 20010215 - ADAC PLASTICS INC [US]
- [DA] DE 19754167 A1 19990610 - VOLKSWAGEN AG [DE]
- [DA] DE 19910328 A1 20000914 - BAYERISCHE MOTOREN WERKE AG [DE]
- [DA] DE 19924685 A1 20001130 - SCHENCK PEGASUS GMBH [DE]

Cited by  
CN102187041A; EP2133496A3; EP1607555A3; KR101393814B1; DE102008009074A1; US9181732B2; WO2007022910A3; WO2008068259A1; WO2010043573A1; DE102009038612A1; DE102009038612A9; DE102009038612A9

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
**EP 1243724 A2 20020925**; **EP 1243724 A3 20031217**; **EP 1243724 B1 20041027**; DE 10114583 C1 20021205; DE 50201376 D1 20041202; ES 2225666 T3 20050316; US 2002148075 A1 20021017; US 6712409 B2 20040330

DOCDB simple family (application)  
**EP 02003947 A 20020222**; DE 10114583 A 20010324; DE 50201376 T 20020222; ES 02003947 T 20020222; US 10509502 A 20020323