

Title (en)

Device for automatically opening a flap of a vehicle body

Title (de)

Vorrichtung zum selbsttätigen Öffnen einer Klappe einer Kraftfahrzeug-Karosserie

Title (fr)

Dispositif pour l'ouverture automatique d'un volet de carrosserie de véhicule

Publication

EP 1026070 B1 20050105 (DE)

Application

EP 00100296 A 20000120

Priority

DE 19904098 A 19990202

Abstract (en)

[origin: US6293050B1] An arrangement for automatic opening of a motor vehicle rear door which can be pivoted about a horizontal swivel axis contains a pneumatic spring-and-ejector combination in which a pneumatic spring is pivotally connected to the vehicle and the rear door so that it exerts a closing torque on the door when the door is in a closed and a predetermined partially open position, and exerts an opening torque when the door is opened beyond the predetermined position to swing the door fully open. An ejector is arranged to pivot the door from the closed position to a position past the partially open position, thereby reducing the energy requirement of the ejector and avoiding high frictional forces in the door lock.

IPC 1-7

B62D 25/12; **E05F 1/10**

IPC 8 full level

B62D 25/12 (2006.01); **E05F 1/10** (2006.01); **E05F 15/53** (2015.01)

CPC (source: EP US)

E05F 1/1091 (2013.01 - EP US); **E05F 1/14** (2013.01 - EP US); **E05F 15/53** (2015.01 - EP US); **E05Y 2201/426** (2013.01 - EP US); **E05Y 2201/448** (2013.01 - EP US); **E05Y 2900/546** (2013.01 - EP US)

Cited by

DE102008045904B3; EP1154111A3; DE102008061395B4; DE102008045899B4; DE102008045903B4; DE102008045901A1; DE102008045900A1; DE102008045905A1; DE102008045899A1; DE102008045906A1; DE102008061395A1; EP2161399A2; DE102008045903A1

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