

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 A3 20030409 (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)

Citation (search report)

- [Y] US 3977712 A 19760831 - NORTHROP LYLE M
- [DY] US 5369911 A 19941206 - FORTUNATO NICK [US]
- [A] DE 19758130 A1 19980917 - SUSPA COMPART AG [DE]
- [A] US 4623132 A 19861118 - SMITH LAWTHOR O [US]

Cited by

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

Designated contracting state (EPC)

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**US 6293050 B1 20010925**; AT E286470 T1 20050115; DE 19904098 A1 20000803; DE 50009146 D1 20050210; EP 1026070 A2 20000809; EP 1026070 A3 20030409; EP 1026070 B1 20050105

DOCDB simple family (application)

**US 48055000 A 20000110**; AT 00100296 T 20000120; DE 19904098 A 19990202; DE 50009146 T 20000120; EP 00100296 A 20000120