

Title (en)

COUNTER BALANCE DEVICE FOR CAR REAR HATCH

Publication

**EP 0219391 B1 19881123 (FR)**

Application

**EP 86402023 A 19860916**

Priority

FR 8514075 A 19850923

Abstract (en)

[origin: US4679841A] A counterbalancing device for a hatchback lid on a road vehicle includes a lid hinged at the top about a horizontal axis to the superstructure of the vehicle and at least one counterbalancing unit such as a pneumatic spring. One end of the counterbalancing unit is pivoted to the superstructure and the other end is pivoted to the lid. The counterbalancing unit is pivotally connected to one of the lid and the superstructure by a first lever. A first end of a link is pivotally connected to the first lever; a second end of the link is pivotally connected to a second lever which, in turn, is connected to the one of the superstructure and the lid. A roller carried by the second lever bears against the superstructure or the lid near the closed position of the lid. The device is more efficient than known devices irrespective of the layout of the lid.

IPC 1-7

**B60J 5/10**; **E05D 3/06**

IPC 8 full level

**B60J 5/10** (2006.01); **E05D 3/06** (2006.01); **E05F 1/10** (2006.01); **E05F 3/00** (2006.01)

CPC (source: EP US)

**E05D 3/06** (2013.01 - EP US); **E05F 1/1091** (2013.01 - EP US); **E05Y 2201/618** (2013.01 - EP US); **E05Y 2900/531** (2013.01 - EP US); **E05Y 2900/546** (2013.01 - EP US)

Cited by

FR2707929A1; EP0495529A1; FR2906293A1; DE102008012439A1; DE102007046691A1; EP2042673A2

Designated contracting state (EPC)

DE GB IT

DOCDB simple family (publication)

**EP 0219391 A1 19870422**; **EP 0219391 B1 19881123**; DE 3661248 D1 19881229; FR 2587656 A1 19870327; FR 2587656 B1 19880108; JP S6271722 A 19870402; US 4679841 A 19870714

DOCDB simple family (application)

**EP 86402023 A 19860916**; DE 3661248 T 19860916; FR 8514075 A 19850923; JP 22577186 A 19860924; US 90918586 A 19860919