

Title (en)
Opening device

Title (de)
Öffnungseinrichtung

Title (fr)
Dispositif d'ouverture

Publication
EP 1738994 A3 20130619 (DE)

Application
EP 06010023 A 20060516

Priority
DE 102005030054 A 20050627

Abstract (en)
[origin: EP1738994A2] The device has a gas spring (1) hinged at a rear flap of a vehicle body with a piston rod (3) and a pressure pipe (2) at a distance to a swivel axis. An energy storage (4) force impinges the flap in its clamping position during its opening strokes from a closing position until reaching a release position of the storage. The storage is arranged in the rod, and the pipe movably and forcibly impinges in the driving direction of the piston rod.

IPC 8 full level
B62D 25/12 (2006.01); **E05F 1/10** (2006.01); **E05F 15/12** (2006.01)

CPC (source: EP US)
E05F 1/1016 (2013.01 - EP); **E05F 1/1058** (2013.01 - EP US); **E05F 1/1091** (2013.01 - EP US); **E05F 15/616** (2015.01 - EP US); **E05F 15/622** (2013.01 - EP US); **E05Y 2201/22** (2013.01 - EP US); **E05Y 2201/484** (2013.01 - EP US); **E05Y 2201/499** (2024.05 - EP US); **E05Y 2201/654** (2013.01 - EP US); **E05Y 2400/44** (2013.01 - EP US); **E05Y 2900/546** (2013.01 - EP US)

Citation (search report)

- [XAY] DE 10330176 A1 20040513 - SUSPA HOLDING GMBH [DE]
- [X] EP 1148196 A2 20011024 - ITW LTD [GB]
- [Y] JP 2002331837 A 20021119 - NTN TOYO BEARING CO LTD
- [Y] US 6293050 B1 20010925 - JOEHNK BENNO [DE]
- [Y] DE 4124869 A1 19930128 - BAYERISCHE MOTOREN WERKE AG [DE]

Cited by
EP3231977A1; ITUA20162642A1; US10138669B2; WO2020038528A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1738994 A2 20070103; EP 1738994 A3 20130619; EP 1738994 B1 20151021; DE 102005030054 A1 20061228;
DE 102005030054 B4 20090402; JP 2007009684 A 20070118; JP 4562696 B2 20101013; US 2007007796 A1 20070111;
US 7798556 B2 20100921

DOCDB simple family (application)
EP 06010023 A 20060516; DE 102005030054 A 20050627; JP 2006175817 A 20060626; US 47459606 A 20060626