

Title (en)
Lid lock apparatus for vehicle

Title (de)
Klappenverriegelungsvorrichtung für Fahrzeug

Title (fr)
Dispositif de verrouillage de couvercle pour véhicule

Publication
EP 2182148 A3 20141022 (EN)

Application
EP 09174384 A 20091028

Priority
• JP 2008276489 A 20081028
• JP 2008276493 A 20081028

Abstract (en)
[origin: EP2182148A2] A lid lock apparatus for a vehicle includes a housing (2), a drive motor (3), an output gear (5) having an engagement piece (53), and a shaft member (6) of which one end is engageable with a lid member (91). The shaft member (6) includes a support portion (62), a relief portion (64), and a recess portion (65). The shaft member (6) further includes a contact portion (65a) obtained by a portion of the engagement piece (53) closest to an axial center (P) of the shaft member (6) to extend radially outwardly in a case where the contact portion (65a) is formed at the engagement piece (53), the contact portion being obtained by a portion of the recess portion (65) closest to the axial center (P) to extend radially inwardly in a case where the contact portion (65a) is formed at the recess portion (65).

IPC 1-7
E05B 65/12

IPC 8 full level
E05B 47/02 (2006.01)

CPC (source: EP)
E05B 81/06 (2013.01); **E05B 81/18** (2013.01); **E05B 81/25** (2013.01); **E05B 81/28** (2013.01); **E05B 83/34** (2013.01)

Citation (search report)
• [A] JP 2001065216 A 20010313 - JIDOSHA DENKI KOGYO KK
• [AD] JP 3079611 B2 20000821

Cited by
US10385596B2; CN105003134A; KR20140130174A; CN105003138A; CN105324546A; JP2016102303A; US9758994B2; US10161167B2; US9856679B2; US10063122B2; US10081969B2; US10196841B2; WO2014173387A1; WO2019214180A1; WO2013127381A3; US8807603B2; US9777515B2; US9228381B2; US9689183B2; US10526822B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)
EP 2182148 A2 20100505; EP 2182148 A3 20141022; EP 2182148 B1 20180214; CN 101725290 A 20100609; CN 101725290 B 20131106

DOCDB simple family (application)
EP 09174384 A 20091028; CN 200910179652 A 20091026