

Title (en)

Vehicle liftgate power operating system

Title (de)

Antiebsssystem für die Heckklappe eines Fahrzeuges

Title (fr)

Système d'actionnement électrique du hayon d'un véhicule

Publication

EP 1195494 A1 20020410 (EN)

Application

EP 01203294 A 20010831

Priority

US 68420000 A 20001006

Abstract (en)

A power operating system for opening and closing a vehicle liftgate (12) has a pair of drive units (22) supported on the vehicle roof and connected to the liftgate for opening and closing the liftgate. Each drive unit includes a housing (24) having a curved track (26) and a curved drive link (38) that is guided by the curved track. The curved drive link (38) is extended and retracted by a pinion gear (42) that is journaled on the drive link and engages a curved rack (32) fixed to the housing. The pinion gear is rotated by a chain (50) that is driven in a loop by a reversible electric motor (52).
<IMAGE>

IPC 1-7

E05F 15/12

IPC 8 full level

E05F 11/42 (2006.01); **B60J 5/10** (2006.01); **E05F 15/12** (2006.01)

CPC (source: EP)

E05F 15/619 (2015.01); **E05F 15/627** (2015.01); **E05F 15/63** (2015.01); **E05Y 2201/26** (2013.01); **E05Y 2201/71** (2013.01); **E05Y 2400/3014** (2024.05); **E05Y 2400/356** (2013.01); **E05Y 2900/546** (2013.01)

Citation (search report)

[A] US 6092337 A 20000725 - JOHNSON JOSEPH MICHAEL [US], et al

Cited by

CN111497576A

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

EP 1195494 A1 20020410; JP 2002174072 A 20020621

DOCDB simple family (application)

EP 01203294 A 20010831; JP 2001311135 A 20011009