

Title (en)

POWER DRIVE MECHANISM FOR A MOTOR VEHICLE LIFTGATE

Title (de)

KRAFTANTRIEBSMECHANISMUS FÜR KRAFTFAHRZEUG-HECKKLAPPE

Title (fr)

MECANISME D'ENTRAINEMENT MECANIQUE POUR HAYON DE VEHICULE

Publication

EP 1175542 A1 20020130 (EN)

Application

EP 00929158 A 20000505

Priority

- CA 0000546 W 20000505
- US 13270199 P 19990505

Abstract (en)

[origin: WO0068538A1] A power drive mechanism (10) for a motor vehicle liftgate includes a linking arm (18) pivotally connected with the liftgate, a crank arm (12) drivable for pivotal movement and connected with the linking arm (18), and a gear train (20) operatively engaging the crank arm (12). A drive motor (34) is operatively connected with the crank arm (12) through the gear train (20) to provide power assisted opening and closing of the liftgate. The gear train (20) is disengageable from the drive motor (34) to permit manual opening and closing of the liftgate without backdriving the drive motor (34). An actuator (74) is operatively connected with the gear train (20) to move the gear train into and out of engagement with the drive motor. A holding linkage (60, 62) is operatively associated with the gear train (20) to maintain the gear train (20) in engagement during power assisted opening and closing of the liftgate.

IPC 1-7

E05F 15/12

IPC 8 full level

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

CPC (source: EP)

E05F 15/63 (2015.01); **E05Y 2201/218** (2013.01); **E05Y 2201/246** (2013.01); **E05Y 2201/462** (2013.01); **E05Y 2201/722** (2013.01); **E05Y 2400/3015** (2024.05); **E05Y 2900/546** (2013.01)

Cited by

EP1650390A3

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 0068538 A1 20001116; AT E280305 T1 20041115; AU 4737100 A 20001121; BR 0010313 A 20020213; BR 0010313 B1 20090113; CA 2370569 A1 20001116; CA 2370569 C 20081007; DE 60015117 D1 20041125; DE 60015117 T2 20051013; EP 1175542 A1 20020130; EP 1175542 B1 20041020; JP 2002544042 A 20021224; JP 4524770 B2 20100818; MX PA01011123 A 20030403

DOCDB simple family (application)

CA 0000546 W 20000505; AT 00929158 T 20000505; AU 4737100 A 20000505; BR 0010313 A 20000505; CA 2370569 A 20000505; DE 60015117 T 20000505; EP 00929158 A 20000505; JP 2000617299 A 20000505; MX PA01011123 A 20000505