Title (en)

Actuating device for a sliding wing of a motor car, especially window raiser for car doors.

Title (de)

Antriebsvorrichtung für verschiebbare Scheiben von Kraftfahrzeugen, insbesondere Fensterheber für Wagentür.

Title (fr)

Dispositif d'entraînement pour panneau coulissant de véhicule automobile, notamment lève-glace pour portière.

Publication

EP 0015832 A1 19800917 (FR)

Application

EP 80400279 A 19800229

Priority

FR 7905450 A 19790302

Abstract (en)

1. A drive device for a sliding panel (PC) of a motor vehicle comprising two guiding slideways which are connected to the part of the body (P) of the vehicle receiving the sliding panel (PC) and in which are engaged respective lateral edges of the sliding panel (PC), a drive device (20, 21, 22, 23) for the automatic control of the movements of the panel (PC) comprising a plate (20) on which is mounted a drive motor (21) whose output shaft supports a movable rotary gearing element (23) and which is itself pivotally mounted on said part of the body (P) to pivot about a pin (25) which is roughly perpendicular to the sliding plane of said panel (PC), and a coupling device comprising a slideway (28) in which is engaged a slide (27) connected to the pivotally mounted plate (20), said slideway (28) acting on a third edge of the panel (PC) and being engaged with the output of the drive device (20, 21, 22, 23), this drive device being characterised in that it further comprises a second gearing element (30) which is connected to said part of the body (P) and along which said movable gearing element (23) is adapted to roll, the plate (20) is slidably mounted in its own plane on its pivot pin (25) and the gearing element connected to the part of the body (P) is a straight rack (30) parallel to the sliding plane of the panel (PC) and connected to an arcuate guide (32) which extends in the same plane and cooperates with a follower element (29) of this guide (32) connected to said plate (20).

Abstract (fr)

Dans ce dispositif, une platine (20) articulée sur la carrosserie (de la portière par exemple) porte le moteur d'entraînement (21) qui entraîne un pignon (23) engrènant avec un élément denté fixe (31). La platine (20) porte un coulisseau (27) qui se déplace dans une glissière (28) solidaire du panneau mobile (glace PC par exemple). La platine porte un doigt (29) qui au cours du mouvement de la platine se déplace dans une glissière (32) de l'élement fixe (31). Cet agencement permet d'assurer la régularité du mouvement du panneau (PC).

IPC 1-7

E05F 15/16

IPC 8 full level

E05F 15/16 (2006.01); E05F 11/42 (2006.01); E05F 11/44 (2006.01)

CPC (source: EP)

E05F 15/689 (2015.01); E05F 11/423 (2013.01); E05F 11/445 (2013.01); E05Y 2900/55 (2013.01)

Citation (search report)

- US 3069152 A 19621218 - ALFONSAS ARLAUSKAS, et al
- DE 1244610 B 19670713 - FORD WERKE AG
- US 3004757 A 19611017 - LOHR THOMAS E
- US 2829885 A 19580408 - RUSSELL ROBERT C
- [AP] EP 0007851 A1 19800206 - PEUGEOT ACIERS ET OUTILLAGE [FR]
- [A] US 3440765 A 19690429 - ESKRA RUDOLPH, et al
- [A] FR 2111220 A5 19720602 - BINETTI LUIGI

Cited by

DE4019797A1; DE4026218A1

Designated contracting state (EPC)

BE DE GB IT NL SE

DOCDB simple family (publication)

EP 0015832 A1 19800917; **EP 0015832 B1 19840725**; DE 3068643 D1 19840830; ES 489656 A0 19810716; ES 8106106 A2 19810716; YU 51980 A 19830121

DOCDB simple family (application)

EP 80400279 A 19800229; DE 3068643 T 19800229; ES 48965680 A 19800229; YU 51980 A 19800220