Title (en)

ROTATING ACTUATING DEVICE FOR MOVING A PIVOTING DOOR WING, ESPECIALLY AT A VEHICLE

Publication

EP 0279237 B2 19930728 (DE)

Application

EP 88101143 A 19880127

Priority

DE 3705369 A 19870220

Abstract (en)

[origin: US4833827A] A rotating drive mechanism for operating the wing of a swinging door, especially of a vehicle. The wing is articulated by pivoting arms to a rotating post, which it rotates along with. When the door is closed, the wing can be raised by axial displacement of the post into a locked position, where locking components on the stationary door frame and on the wing of the door engage each other. The post is driven by a strictly linear mechanism that is controlled by pressure medium and its linear motion is converted into a rotation by a helical transmission. Certain drawbacks are elminated by the improvement wherein the rotating post is coupled to the helical transmission in such a way that, at least while the wing of the door is closing, the post cannot rotate in relation to it but can move axially and, once the post has attained a specified limit of rotation while the wing of the door is closing, the linear drive mechanism will be additionally directly coupled axially to the rotating post in such a way as to lift it.

IPC 1-7

E05F 15/04

IPC 8 full level

E05F 15/04 (2006.01); **E05F 15/54** (2015.01)

CPC (source: EP US)

E05F 15/54 (2015.01 - EP US); E05Y 2800/262 (2013.01 - EP US); E05Y 2900/506 (2013.01 - EP US); E05Y 2900/51 (2013.01 - EP US)

Cited by

EP2148034A3; DE10052228B4; DE102010002625A1; DE102010002625B4; EP2503086A2

Designated contracting state (EPC)

AT CH DE ES FR IT LI NL

DOCDB simple family (publication)

EP 0279237 A1 19880824; **EP 0279237 B1 19900411**; **EP 0279237 B2 19930728**; AT E51932 T1 19900415; DE 3705369 A1 19880901; DE 3860083 D1 19900517; ES 2014500 B3 19900716; ES 2014500 T5 19950801; US 4833827 A 19890530

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