

Title (en)

ROTATING ACTUATING DEVICE FOR PIVOTING DOORS, ESPECIALLY VEHICLE DOORS

Publication

EP 0279236 B1 19900411 (DE)

Application

EP 88101142 A 19880127

Priority

DE 3705370 A 19870220

Abstract (en)

[origin: US4838102A] A rotating drive mechanism for swinging doors, especially on vehicles, with a helical transmission consisting of a stator that is rigidly connected to the housing of the rotating drive mechanism, a rotor that can rotate but cannot move axially and that is rigidly connected to the driveshaft, a coupling component that moves axially to rotate the rotor in relation to the stator, and a pneumatic or hydraulic drive cylinder with a piston rod that is connected to the coupling component. The drive cylinder is an annular cylinder that has an outer and an inner jacket as well as an annular piston between the inner and the outer jacket. The coupling component is a nut that extends into the inner cylinder jacket and surrounds a rotor in the form of a threaded spindle. The rotor extends coaxially through the inside of the inner jacket and is, where it emerges from the housing, in one piece with the stub of the takeoff shaft. The coupling component is non-rotationally connected to an axial positioning mechanism that has rollers that travel in a positioning slot in the stator.

IPC 1-7

E05F 15/04; F15B 15/08

IPC 8 full level

B61D 19/02 (2006.01); **E05F 15/04** (2006.01); **E05F 15/54** (2015.01); **F15B 15/08** (2006.01)

CPC (source: EP US)

B61D 19/02 (2013.01 - EP US); **E05F 15/54** (2015.01 - EP US); **F15B 15/068** (2013.01 - EP US); **E05Y 2900/51** (2013.01 - EP US); **Y10T 74/18888** (2015.01 - EP US); **Y10T 74/19721** (2015.01 - EP US)

Cited by

CN102745476A; EP0397915A3; EP0823528A1; DE102011052961A1; DE102011052961B4; EP2562342A2; EP2573305B1

Designated contracting state (EPC)

AT CH DE ES FR IT LI NL

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