

Title (en)

ACTUATING DEVICE FOR ROTATABLE COLUMN, ESPECIALLY FOR MOVING A PIVOTING DOOR WING OF A MOTOR VEHICLE

Publication

EP 0218072 B1 19890628 (DE)

Application

EP 86111752 A 19860825

Priority

DE 3532514 A 19850912

Abstract (en)

[origin: US4731886A] A device for activating a rotating post, especially one that moves a swinging-door panel in a motor vehicle and which need no additional space at each end of the rotating post. The post is rotatably mounted in a mount at each end. The post is a hollow cylinder that accommodates a worm gear driven by a bi-directional pneumatic piston-and-cylinder drive. The piston-and-cylinder drive is completely accommodated inside the post and consists of at least two piston-and-cylinder units pneumatically connected in parallel with a common piston rod. Each unit incorporates a piston and cylinder aligned within a sleeve that is rigidly fastened to and coaxial with one of the mounts. The pressure medium that drives the panel in one direction is supplied to each cylinder through a coaxial bore in the piston rod. The bore extends axially and connects all the pistons. The bore communicates with the insides of the cylinders in the vicinity of each piston face that faces the same direction. The pressure medium that drives the panel in the other direction is supplied through a supply channel with an essentially annular cross-section positioned between the outside surface of the cylinders and the inside surface of the sleeve. The supply channel communicates with the insides of the cylinders in the vicinity of each cylinder face opposite the piston faces that face the other direction.

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E05F 15/02

IPC 8 full level

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