Title (en)

Door operating mechanism.

Title (de)

Türbetätigungsvorrichtung.

Title (fr)

Mécanisme d'actionnement pour porte.

Publication

EP 0255781 A2 19880210 (EN)

Application

EP 87306766 A 19870730

Priority

GB 8618668 A 19860731

Abstract (en)

The invention provides a door operating mechanism which can be mounted on the pivot axis of a door. The mechanism comprises a casing 1 in which is guided axially a piston 4, and actuating member 6 therefor. Coupled to the actuating member is a pivot member 7. A compact construction results where the actuating member (6) and pivot member (7) have complementary helical fingers (29; 33) whereby rotation of the pivot member (7) gives rise to axial movement of the acuating member (6) and piston (4). The axial movement in one direction causes hydraulic fluid acting on the piston (4) be pressurised which provides a return force acting on the piston (4). This can be used to return a door to a starting position from which it has been displaced. By having fluid acting on the piston (4) instead of a spring, failure of the fluid system does not give rise to slamming of the door which is the case where the fluid merely serves as a damping medium for movement of the door. The construction renders its self-adaptable to automatic operation.

IPC 1-7

E05F 3/20; E05F 3/04

IPC 8 full level

E05F 3/04 (2006.01); **E05F 3/10** (2006.01); **E05F 3/20** (2006.01)

CPC (source: EP)

E05F 3/04 (2013.01); **E05F 3/10** (2013.01); **E05F 3/20** (2013.01); **E05F 3/223** (2013.01); E05Y 2201/256 (2013.01); E05Y 2201/264 (2013.01); E05Y 2201/696 (2013.01); E05Y 2800/21 (2013.01); E05Y 2900/132 (2013.01)

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Designated contracting state (EPC)

DE ES FR IT

DOCDB simple family (publication)

EP 0255781 A2 19880210; **EP 0255781 A3 19880713**; GB 2195143 A 19880330; GB 8618668 D0 19860910; GB 8718066 D0 19870903

DOCDB simple family (application)

EP 87306766 A 19870730; GB 8618668 A 19860731; GB 8718066 A 19870730