

Title (en)

HYDRAULICALLY DAMPED ACTUATOR AND SELF-CLOSING HINGE COMPRISING THE ACTUATOR

Title (de)

HYDRAULISCH GEDÄMPFTER AKTUATOR UND SELBSTSCHLIESSENDES SCHARNIER MIT DEM AKTUATOR

Title (fr)

ACTIONNEUR À AMORTISSEMENT HYDRAULIQUE ET CHARNIÈRE À FERMETURE AUTOMATIQUE COMPRENANT LEDIT ACTIONNEUR

Publication

EP 3342969 A1 20180704 (EN)

Application

EP 16206979 A 20161227

Priority

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Abstract (en)

A hydraulically damped actuator for closing a hinged closure member (1). The actuator comprises: an energy storing mechanism for storing energy when opening the closure member (1) and using the energy to close the closure member (1); and a damping mechanism for damping a closing movement of the closure member (1). The damping mechanism comprises: a rotating damper shaft (32) having a first end with an end face (68) and a non-circular cross-sectioned portion (52); a synthetic spindle (50) having an outer threaded portion (55) and a non-circular cross-sectioned recess (51) fitting onto the damper shaft (32); and a piston (41) with an inner threaded portion (56) in engagement with the outer threaded portion (55) of the spindle (50). The spindle (50) is fixed to the damper shaft (32) by two bolts (53) bolted through a bottom (86) of the spindle (50) into the end face (68) of the damper shaft (32) thereby irrotatably fastening the spindle (50) to the damper shaft (32). As such, the recess (51) is less likely to deform.

IPC 8 full level

E05F 3/08 (2006.01); **E05F 3/20** (2006.01)

CPC (source: EP)

E05F 3/08 (2013.01); **E05F 3/20** (2013.01); **E05Y 2201/696** (2013.01); **E05Y 2600/51** (2013.01); **E05Y 2800/414** (2013.01); **E05Y 2900/40** (2013.01)

Citation (applicant)

- EP 2295693 A1 20110316 - TALPE JOSEPH [BE]
- EP 2356305 A1 20110817 - TALPE JOSEPH [BE]
- EP 2356304 B1 20121031 - TALPE JOSEPH [BE]
- EP 2470739 B1 20150701 - TALPE JOSEPH [BE]
- US 2009107051 A1 20090430 - TALPE JOSEPH [BE]
- EP 1528202 B1 20060830 - TALPE JOSEPH [BE]
- EP 2778330 B1 20150812 - LOCINOX [BE]
- EP 1907712 B1 20081217 - TALPE JOSEPH [BE]

Citation (search report)

- [AD] EP 2295693 A1 20110316 - TALPE JOSEPH [BE]
- [A] EP 0255781 A2 19880210 - NOUVEAUX SECURITY PRODUCTS LTD [GB]

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

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