

Title (en)

Buffering hinge for a furniture door

Title (de)

Gedämpftes Scharnier für eine Möbeltür

Title (fr)

Charnière amortie pour porte de meuble

Publication

EP 2743436 A3 20171025 (EN)

Application

EP 13005823 A 20131213

Priority

CN 201220690169 U 20121214

Abstract (en)

[origin: EP2743436A2] The present invention relates to a buffering hinge for a furniture door comprising a fixing member, a grooved cup-shaped support (1), an outer rocker arm (7), an inner rocker arm (5), a connecting rod structure (10), a return spring (8) and a hydraulic cushioning cylinder (13), wherein a shaft (11) is fixed to the casing (18), and the connecting rod structure (10) is provided with elongated holes (102) which extends at an angle to the horizontal direction and through which the shaft (11) extends slidably; a first boss (101) and a second boss (103) are arranged on each of the two side walls of the connecting rod structure (10); the outer rocker arm (7) is rotatably connected with the casing (18) at one end and rotatably connected with the cup-shaped support (1) at the other end via one leg of an U-shaped pin (2); two connecting walls extending outward are arranged on one end of the inner rocker arm (5) and rotatably connected with one end of the casing (18) and rotatably connected with one end of the connecting rod structure (10); each of the two connecting walls is provided with a recess into which a corresponding first boss (101) may be moved, and the other end of the inner rocker arm (5) is rotatably connected with the cup-shaped support (1) via the other leg of the U-shaped pin (2); one end of the piston rod of the hydraulic cushioning cylinder (13) is rotatably connected with the other end of the connecting rod structure (10). The present invention has advantages over the prior art, including lower resistance in operation, simpler structure, easiness of manufacture and installation, lower manufacturing costs etc.

IPC 8 full level

E05F 5/00 (2017.01)

CPC (source: EP)

E05F 5/006 (2013.01); **E05D 7/125** (2013.01); **E05Y 2201/21** (2013.01); **E05Y 2201/264** (2013.01); **E05Y 2201/626** (2013.01); **E05Y 2900/20** (2013.01)

Citation (search report)

- [A] CN 201635559 U 20101117 - ZHONGQIAO HARDWARE & ELECTRICAL APPLIANCE MFG CO LTD
- [A] CN 201416326 Y 20100303 - FOSHAN CITY SHUNDE DISTR ADAMS METALS FABRICATE CO LTD

Cited by

CN116544807A; WO2022141736A1

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

DOCDB simple family (publication)

EP 2743436 A2 20140618; **EP 2743436 A3 20171025**; CN 202970235 U 20130605

DOCDB simple family (application)

EP 13005823 A 20131213; CN 201220690169 U 20121214