

Title (en)

DEVICE HAVING A CONTROLLABLE ROTARY DAMPER, AND METHOD

Title (de)

VORRICHTUNG MIT EINEM STEUERBAREN DREHDÄMPFER UND VERFAHREN

Title (fr)

DISPOSITIF COMPRENANT UN AMORTISSEUR ROTATIF POUVANT ÊTRE COMMANDÉ ET PROCÉDÉ

Publication

EP 3625476 A1 20200325 (DE)

Application

EP 18729584 A 20180518

Priority

- DE 102017111032 A 20170520
- EP 2018063114 W 20180518

Abstract (en)

[origin: WO2018215342A1] Door component (100) and method having a controllable rotary damper (1) and two connector units (151, 152) which can be moved relative to one another, wherein one of the two connector units (151, 152) can be connected to a load-bearing construction and the other of the two connector units (151, 152) can be connected to a movable door device (154) of a vehicle (100), in order to damp a movement of the door device (154) between a closed position (102) and an open position (103) in a controlled manner at least partially. Two spindle units (4, 5) which are in engagement with one another are arranged between the two connector units (151), one spindle unit being configured as a threaded spindle (4) and the other spindle unit being configured as a spindle nut (5). A first spindle unit (4) is fastened rotatably on a coupling rod (3) which is connected to one of the connector units (151, 152). A magnetorheological transmission device (40) is arranged between the coupling rod (3) and the first spindle unit (4), in order to brake a rotational movement of the first spindle unit (4) as required.

IPC 8 full level

E05F 3/14 (2006.01); **E05F 15/00** (2015.01); **F16F 9/12** (2006.01); **F16F 9/53** (2006.01)

CPC (source: EP US)

E05F 3/14 (2013.01 - US); **E05F 5/00** (2013.01 - EP); **E05F 15/622** (2015.01 - US); **F16F 9/535** (2013.01 - EP US); **E05Y 2201/25** (2013.01 - EP US); **E05Y 2201/254** (2013.01 - EP); **E05Y 2201/258** (2013.01 - US); **E05Y 2201/696** (2013.01 - US); **E05Y 2201/702** (2013.01 - EP); **E05Y 2900/531** (2013.01 - EP US); **F16F 2224/045** (2013.01 - EP US); **F16F 2228/066** (2013.01 - US); **F16F 2232/06** (2013.01 - EP US)

Citation (search report)

See references of WO 2018215342A1

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

DE 102017111032 A1 20181122; CN 110770466 A 20200207; CN 110770466 B 20210910; EP 3625476 A1 20200325; US 11136807 B2 20211005; US 11634935 B2 20230425; US 2020087965 A1 20200319; US 2021238901 A1 20210805; WO 2018215342 A1 20181129

DOCDB simple family (application)

DE 102017111032 A 20170520; CN 201880040680 A 20180518; EP 18729584 A 20180518; EP 2018063114 W 20180518; US 201816615291 A 20180518; US 202117235162 A 20210420