

Title (en)
DOOR HINGE HAVING TWO-SECTION FORCE

Title (de)
TÜRSCHARNIER MIT ZWEIFTEILIGER KRAFT

Title (fr)
CHARNIÈRE DE PORTE DOTÉE D'UNE FORCE EN DEUX SECTIONS

Publication
EP 4050185 A4 20221221 (EN)

Application
EP 20889153 A 20201113

Priority
• CN 201921982649 U 20191118
• CN 2020128558 W 20201113

Abstract (en)
[origin: EP4050185A1] A door hinge having a two-section force, comprising a first rotating shaft (3), a second rotating shaft (4), a crank (5), a rocker (6), a housing (10), a hinge cup (1), a U-shaped shaft (2), a double-leg torsion spring (7), a damper (8), and a guide base (9). Protrusions (52) and arc-shaped abutting positions (51) are provided on both front and back sides of a right end of the crank (5), an arc center of each of the arc-shaped abutting position (51) is coaxial with the axis of the first rotating shaft (3); two legs (71) of the double-leg torsion spring (7) respectively abut on the corresponding arc-shaped abutting positions (51) or abut on right ends of the arc-shaped abutting position (51); the damper (8) is mounted in the housing (10); recesses (91) are provided on both front and back sides of the guide base (9); the guide base (9) is located in the housing (10) and can relatively move; the protrusions (52) are located in the corresponding recesses (91); and an end portion of a piston rod (84) of the damper (8) is provided on the guide base (9).

IPC 8 full level
E05D 3/06 (2006.01); **E05D 3/14** (2006.01); **E05D 11/00** (2006.01); **E05F 1/12** (2006.01); **E05F 5/00** (2017.01); **E05F 5/02** (2006.01); **E05F 5/10** (2006.01)

CPC (source: EP KR)
E05D 3/06 (2013.01 - KR); **E05D 3/142** (2013.01 - EP); **E05D 11/00** (2013.01 - KR); **E05D 11/1021** (2013.01 - EP); **E05F 1/12** (2013.01 - KR); **E05F 1/1215** (2013.01 - EP); **E05F 5/006** (2013.01 - EP); **E05F 5/027** (2013.01 - EP); **E05F 5/10** (2013.01 - KR); **E05Y 2201/212** (2013.01 - KR); **E05Y 2201/24** (2013.01 - EP); **E05Y 2201/256** (2013.01 - EP); **E05Y 2201/264** (2013.01 - EP); **E05Y 2201/412** (2013.01 - EP); **E05Y 2201/484** (2013.01 - EP); **E05Y 2201/638** (2013.01 - EP); **E05Y 2900/20** (2013.01 - EP)

Citation (search report)
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• See also references of WO 2021098592A1

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