

Title (en)
Compact hinge device for a door

Title (de)
Kompaktes Türscharnier

Title (fr)
Charnière de porte compacte

Publication
EP 1764557 A3 20171018 (EN)

Application
EP 06019034 A 20060912

Priority
IT BO20050564 A 20050914

Abstract (en)
[origin: EP1764557A2] A compact hinge device for a door (2) of a structure (3) is provided with connection members, first (4) and second (5), mutually connected by means of a first rotation pivot (6) and respectively fit to be fixed to the door (2) and to the structure (3), it is also provided with elastic means (7) fit to provide to the connection members, first (4) and second (5) with an elastic closing force. The device comprises an arm mean (8), whose a first end is connected by means of a second rotation pivot (9) to the first connection member (4) and whose second end has a head (10) connected at an end to the elastic mean (7) whose opposite end is constrained to a lock (13) of the second connection member (5). In the passage from an extreme closing condition (C) to an extreme opening condition (A) the head (10) of the arm mean (8) compresses the elastic mean (7) balancing the door (2).

IPC 8 full level
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CPC (source: EP)
A47L 15/4261 (2013.01); **E05F 1/1261** (2013.01); **F24C 15/023** (2013.01); **E05D 11/08** (2013.01); **E05Y 2900/304** (2013.01); **E05Y 2900/308** (2013.01)

Citation (search report)
• [X] EP 0919776 A2 19990602 - CMI SRL [IT]
• [A] US 4269165 A 19810526 - WROTONY WALTER A, et al
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• [A] US 3196482 A 19650727 - BATES WAYNE C
• [A] US 3712287 A 19730123 - SUMMERS F
• [A] DE 3140039 A1 19830421 - BOSCH SIEMENS HAUSGERAETE [DE]

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Designated extension state (EPC)
AL BA HR MK RS

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EP 1764557 A2 20070321; **EP 1764557 A3 20171018**; **EP 1764557 B1 20181226**; ES 2715227 T3 20190603; IT BO20050564 A1 20070315; PL 1764557 T3 20190531; TR 201903416 T4 20190422

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