

Title (en)

HINGE DEVICE FOR DOORS OF CHEST APPLIANCES

Title (de)

SCHARNIERVORRICHTUNG FÜR TÜREN VON KASTENVORRICHTUNGEN

Title (fr)

DISPOSITIF DE CHARNIÈRE POUR PORTES D'APPAREILS À COFFRE

Publication

**EP 3555398 B1 20221102 (EN)**

Application

**EP 17823082 A 20171214**

Priority

- IT 201600127767 A 20161216
- EP 2017082931 W 20171214

Abstract (en)

[origin: WO2018109130A1] A hinge device for a door (D) of a chest appliance (A) has, in an operative condition, the respective opening lying on a horizontal geometric plane and the respective door (D) rotating around a horizontal axis between a closure condition, in which said door (D) is horizontal and closes the opening, and an opening condition (O) in which it is inclined compared to the opening, thus making it accessible. Said device (1) comprises a first member (3) assigned to be fixed to a body of the appliance (A) and a second member (5) assigned to be fixed to the door (D) of said appliance (A) and hinged to the first member (3) by means of a horizontal hinge pin (7). Said device comprises a transmission means (11) having an end which is connected to the second member (5) by means of a first connection pivot means (13) which is fixed to the second member (5) parallel to and spaced from the hinge pin (7) and the opposite end of the transmission means (11) has a second connection pivot means (15) which is bound to slide along respective slot means (17) which are parallel to an operative direction approaching or leaving the hinge pin (7), said slot means (17) are obtained in respective lateral walls of the first member (3). Such device (1) further comprising resilient means (14) assigned to apply to the transmission means (11) an elastic force acting at least partially in said operative direction and towards the opening condition (O). The resilient means (14) comprise at least one helicoidal spring acting in extension and having an end which is hooked to the hinge pin (7) and the other end hooked directly or indirectly to the second connection pivot means (15) or the resilient means (14) comprise at least one helicoidal spring acting in compression and whose ends are connected to the hinge pin (7) and to the second connection pivot means (15) by means of respective spring guides or tie-rods.

IPC 8 full level

**E05F 1/12** (2006.01); **E05F 3/20** (2006.01)

CPC (source: EP)

**E05F 1/1261** (2013.01); **E05F 1/1276** (2013.01); **E05F 3/20** (2013.01); **E05Y 2201/21** (2013.01); **E05Y 2900/306** (2013.01)

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

DOCDB simple family (publication)

**WO 2018109130 A1 20180621**; CN 110114545 A 20190809; CN 110114545 B 20210122; EP 3555398 A1 20191023; EP 3555398 B1 20221102; IT 201600127767 A1 20180616

DOCDB simple family (application)

**EP 2017082931 W 20171214**; CN 201780077695 A 20171214; EP 17823082 A 20171214; IT 201600127767 A 20161216