

Title (en)
DOUBLE-ACTION SPRING HINGE FOR DOOR PANELS AND THE LIKE

Title (de)
DOPPELWIRKENDES FEDERSCHARNIER FÜR EIN TÜRBLATT

Title (fr)
CHARNIÈRE ÉLASTIQUE À DOUBLE ACTION POUR PANNEAU DE PORTE

Publication
EP 3527761 C0 20240508 (EN)

Application
EP 19152598 A 20190118

Priority
IT 201800002862 A 20180220

Abstract (en)
[origin: EP3527761A1] A double-action spring hinge for door panels and the like (11) comprising a central body (12) to which two wings (13,14) are rotatably connected on opposite sides, wherein one wing (13) of said two wings (13, 14) is destined for being fixed to an upright (15) of a door and the other wing (14) to a panel (16) of a door; wherein the central body (12) comprises a substantially rectangular intermediate portion (17) from which two pairs of arms (18,19 and 18',19') extend on opposite sides, and wherein the two wings (13,14) have a substantially rectangular portion (21) from a side of which two arms (22,23 and 22',23' respectively) extend, wherein the two arms (22,23 and 22',23') of the two wings (13,14) are formed spaced from each other in such a position as to allow them to be arranged between the arms (18,19 and 18',19' respectively) of the central body (12); all of the arms (18,19 and 18' 19'; 22,23 and 22',23') being curved to form cylindrical slots; a pair of tubular elements (20) each suitable for containing a helical spring (25) and receiving end caps (36), which are positioned at opposite ends of each tubular element (20) and receive opposite ends (29) of each spring (25); sliding cylindrical bushes (26) provided with an end of a flange (27) which extends outwardly, positioned externally to each tubular element (20), wherein the bushes (26) are arranged in pairs with the flanges (27) head to head, and wherein the pairs of bushes (26) thus arranged are positioned between consecutive aligned cylindrical slots of arms (18,22,19 and 23) of one side of the hinge (11) and consecutive aligned cylindrical slots of arms (18',22',19' and 23') respectively of another side of the hinge (11); the sliding bushes (26) being formed in an antifriction engineering polymer and the central body (12) and the two wings (13,14) being produced in cold-pressed steel.

IPC 8 full level
E05D 3/12 (2006.01); **E05D 3/08** (2006.01); **E05F 1/12** (2006.01)

CPC (source: EP)
E05D 3/08 (2013.01); **E05D 3/12** (2013.01); **E05F 1/1215** (2013.01); **E05Y 2600/634** (2013.01); **E05Y 2900/132** (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

Participating member state (EPC – UP)
AT BE BG DE DK EE FI FR IT LT LU LV MT NL PT SE SI

DOCDB simple family (publication)
EP 3527761 A1 20190821; EP 3527761 B1 20240508; EP 3527761 C0 20240508; IT 201800002862 A1 20190820

DOCDB simple family (application)
EP 19152598 A 20190118; IT 201800002862 A 20180220