

Title (en)
Hinge for doors or windows.

Title (de)
Scharnier für Fenster oder Türen

Title (fr)
Charnière pour portes ou fenêtres

Publication
EP 1703056 B1 20080611 (EN)

Application
EP 06110839 A 20060308

Priority
IT BO20050157 A 20050315

Abstract (en)
[origin: EP1703056A2] Described is a positioning device for heavy doors or windows with a fixed frame (3) and a sash (2), each having a profile which forms a longitudinal groove (C3, C2) consisting of a pair of opposite "L"-shaped protrusions (4); the fixed frame and the sash (3, 2) are fastened to one another by two hinge units (GCI, GCS), lower and upper. Each hinge unit (GCI, GCS) comprises: a first, lower hinge body (6), having a first cylindrical socket (6a) and a first flap (6b); a second, upper hinge body (7), having a second cylindrical socket (7a) and a second flap (7b); means (8) for fixing the first and second hinge bodies (6, 7) respectively to the fixed frame and the sash (3, 2), comprising a block (8a), housed inside the corresponding groove (C3, C2), and which can be connected to the respective flap (6b, 7b) in such a way as to lock it in place; a hinge pin (9) which can be housed inside the sockets (6a, 7a) and defining a vertical axis of rotation (Z1, Z2) for each hinge unit (GCI, GCS); on the first or the second hinge body (6, 7) of the lower hinge unit (GCI) there being a spacer component (10) inserted between the respective flap (6b, 7b) and the pair of protrusions (4) in such a way that it modifies the position, that is to say, moves the hinge body (6, 7) away from the fixed frame or sash (3, 2), so that in practice it makes the position of the vertical axis of rotation (Z1) of the lower hinge unit (GCI) and the vertical axis of rotation (z2) of the upper hinge unit (GCS) coaxial.

IPC 8 full level
E05D 7/00 (2006.01)

CPC (source: EP)
E05D 5/0238 (2013.01); **E05D 7/0054** (2013.01); **E05D 7/04** (2013.01); **E05Y 2900/132** (2013.01); **E05Y 2900/148** (2013.01)

Cited by
US11060336B2; DE202006016738U1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1703056 A2 20060920; EP 1703056 A3 20071031; EP 1703056 B1 20080611; AT E398220 T1 20080715; DE 602006001414 D1 20080724; ES 2307264 T3 20081116; IT BO20050157 A1 20060916

DOCDB simple family (application)
EP 06110839 A 20060308; AT 06110839 T 20060308; DE 602006001414 T 20060308; ES 06110839 T 20060308; IT BO20050157 A 20050315