

Title (en)
An adjustable hinge for doors and windows

Title (de)
Verstellbares Scharnier für Türen und Fenster

Title (fr)
Charnière réglable pour portes et fenêtres

Publication
EP 2186980 A1 20100519 (EN)

Application
EP 09175736 A 20091112

Priority
IT BO20080685 A 20081112

Abstract (en)
An adjustable door hinge comprises: a first hinge body (2) and a second hinge body (3) having respective outside portions (2a, 3a) for engaging a hinge pin (4) defining a vertical rotation axis (Z) for a mobile frame (5) of the door/window (6); means for adjusting the mobile frame (5) relative to the fixed frame (7) along an axis (X) parallel to the vertical plane of the door/window (6) and being positioned and operative on the hinge body (2) associated with the mobile frame (5), the outside portion (2a) of one of the hinge bodies (2) being divided into an appendage (9) integral with, and projecting from, the portion (2b) or flap to be fastened to the door/window (6) and a tubular bushing or cartridge (10) at least partly encompassing the appendage (9) and stably associated with the hinge pin (4) at one end of it; a cartridge (10) pivoting pin (11) having an axis (Z11) parallel to the rotation axis (Z) and housed in respective coaxial holes (12, 13) in the cartridge (10) and in the appendage (9); means (8) are provided between the cartridge 10 and the appendage (9) and act between the same in such a way as to move the mobile frame (5) in both directions along the axis (X) parallel to the vertical plane of the door/window (6), while keeping the cartridge (10) and the respective cylindrical portion (3a) of the other hinge body (3) coaxially coincident by rotating the cartridge (10) about the axis (Z11) of the pivoting pin (11).

IPC 8 full level
E05D 7/00 (2006.01); **E05D 7/04** (2006.01)

CPC (source: EP)
E05D 7/0045 (2013.01); **E05D 7/0423** (2013.01); **E05D 5/0223** (2013.01); **E05D 2007/0461** (2013.01); **E05Y 2900/132** (2013.01); **E05Y 2900/148** (2013.01)

Citation (applicant)
• IT 1221237 B 19900621 - GIESSE SPA [IT]
• EP 0992647 A2 20000412 - GIESSE SPA [IT]

Citation (search report)
• [A] DE 202006002236 U1 20070621 - HAHN GMBH & CO KG DR [DE]
• [A] GB 2084240 A 19820407 - PFAEFFLI WALTER

Cited by
WO2022194950A1; AT17584U1; GB2547682A; GB2547682B; AT17686U1; JP2016188479A; US10221598B2; ITFI20120140A1; EP2682551A3; EP2682551A2; US8925150B2

Designated contracting state (EPC)
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 SE SI SK SM TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
EP 2186980 A1 20100519; EP 2186980 B1 20110223; AT E499503 T1 20110315; DE 602009000783 D1 20110407; ES 2360921 T3 20110610; IT 1391717 B1 20120127; IT BO20080685 A1 20100513

DOCDB simple family (application)
EP 09175736 A 20091112; AT 09175736 T 20091112; DE 602009000783 T 20091112; ES 09175736 T 20091112; IT BO20080685 A 20081112