

Title (en)
Hinging device for windows and doors

Title (de)
Scharniervorrichtung für Fenster und Türe

Title (fr)
Dispositif de charnière pour fenêtres et portes

Publication
EP 1612356 B1 20081022 (EN)

Application
EP 05013228 A 20050620

Priority
IT TO20040437 A 20040628

Abstract (en)
[origin: EP1612356A2] A hinging device for windows and doors including a fixed frame (12) and a movable frame (14), comprising: - a first support element (24) to be fastened to the fixed frame (12) and bearing a main axis of articulation (38), - a second support element (26) to be fastened to the movable frame (14), - a main lever (42) articulated to the first support element (24) around the main axis (38), - a secondary lever (60) slidably articulated to the first support element (24) and articulated to an intermediate region (45) of the main lever (42), and - a connecting rod (76) having an end (78) articulated to the second support element (26). The first support element (24) bears an elongated articulation pivot pin (36) and the main lever (24) has an articulation portion (50) which extends parallel to the main axis of articulation (38) and engages the pivot pin (36) at least at its end regions.

IPC 8 full level
E05D 15/52 (2006.01)

CPC (source: EP)
E05D 15/30 (2013.01); **E05D 15/5211** (2013.01); **E05Y 2900/132** (2013.01); **E05Y 2900/148** (2013.01)

Cited by
EP2302152A1; DE102010028602A1; EP1936085A1; EP2369111A3; EP2369110A3; EP2811092A3; WO2017064346A1; EP2400094A2; US10400492B2

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 MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1612356 A2 20060104; EP 1612356 A3 20080102; EP 1612356 B1 20081022; AT E412098 T1 20081115; DE 602005010511 D1 20081204; ES 2317106 T3 20090416; IT TO20040437 A1 20040928; PL 1612356 T3 20090430; PT 1612356 E 20090130

DOCDB simple family (application)
EP 05013228 A 20050620; AT 05013228 T 20050620; DE 602005010511 T 20050620; ES 05013228 T 20050620; IT TO20040437 A 20040628; PL 05013228 T 20050620; PT 05013228 T 20050620