

Title (en)

COUNTERBALANCED HINGE DEVICE WITH VERTICAL MOVEMENT FOR A DOOR

Title (de)

GEGENGEWICHT-SCHARNIER-VORRICHTUNG MIT VERTIKALBEWEGUNG FÜR EINE TÜR

Title (fr)

DISPOSITIF A CHARNIERE A RESSORTS EQUILIBREUR A MOUVEMENT VERTICAL POUR PORTE

Publication

**EP 1443846 B1 20050413 (EN)**

Application

**EP 02783362 A 20021105**

Priority

- IB 0204633 W 20021105
- IT BO20010674 A 20011106

Abstract (en)

[origin: WO03039322A1] A counterbalanced hinge device with vertical movement for an appliance door, of the type including connection means (2) for the appliance body, support means (3), fit for fixing an appliance door, and balancing means (11), connected to the connection means (2), includes: a rocker arm (4) hinged to the connection means (2) and connected to the support means (3); linkage means (20) connected to the connection means (2), to the support means (3) and to the balancing means (11) and having a median portion (15) for sliding mating a shaped portion (7) of the rocker arm (14). The linkage means (20) are fit for transmitting to the support means (3) a counterbalancing force of the door, between a closing condition (C) and a full opening condition (A) and vice versa. The sliding contact between the median portion (15) and the shaped portion (7) causes a rotation of the rocker arm (4) and the vertical movement of the appliance door in correspondence of the passage from the closing condition (C) to the opening condition (A) and vice versa.

IPC 1-7

**A47L 15/42**

IPC 8 full level

**A47L 15/42** (2006.01)

CPC (source: EP)

**A47L 15/4261** (2013.01); **E05D 3/06** (2013.01); **E05F 1/1276** (2013.01); **E05Y 2900/304** (2013.01)

Cited by

EP2298983A1; ITMI20091321A1; US9072422B2

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

**WO 03039322 A1 20030515**; DE 60203732 D1 20050519; DE 60203732 T2 20050901; EP 1443846 A1 20040811; EP 1443846 B1 20050413; ES 2238619 T3 20050901; IT BO20010674 A1 20030506

DOCDB simple family (application)

**IB 0204633 W 20021105**; DE 60203732 T 20021105; EP 02783362 A 20021105; ES 02783362 T 20021105; IT BO20010674 A 20011106