Title (en)

Device for balancing the door of a dishwasher appliance

Title (de)

Vorrichtung zum Gewichtsausgleich der Tür einer Haushaltsgeschirrspülmaschine

Title (fr)

Dispositif d'équilibrage de la porte d'un lave-vaisselle domestique

Publication

EP 1402809 B1 20060503 (EN)

Application

EP 03380209 A 20030923

Priority

ES 200202294 U 20020926

Abstract (en)

[origin: EP1402809A2] The balancing device (1) is connected to the door (2) of a dishwasher appliance provided with a casing (3), and comprises a single spring (5) for compensating the door weight "G", and two identical tensioning assemblages (7-11) secured symmetrically on the two side walls of the casing (3), having a respective cord (7) connected to each door side hinge (4). The spring (6) occupies the space below the door (2) not supported, and it is kept in a horizontal position extended in a direction parallel to the door swivel pin (5). Transmission of the spring force Fs in a given direction (14) transverse to the swivel pin (5), is achieved by a respective tensioning plate (8), which is formed by a piece (8a) secured to the casing (3) and a movable piece (8b) provided with a sliding surface (9) for tensioning the cord (7), which is guided and kept oriented towards the corresponding end of the spring (6) coaxially. <IMAGE>

IPC 8 full level

A47L 15/42 (2006.01)

CPC (source: EP)

A47L 15/4261 (2013.01); **E05F 1/1075** (2013.01); E05Y 2900/304 (2013.01)

Cited by

CN105877672A; EP2286709A1; US8882933B2; WO2009146874A1; WO2007097577A1

Designated contracting state (EPC)

DE ES FR IT

DOCDB simple family (publication)

EP 1402809 A2 20040331; **EP 1402809 A3 20040929**; **EP 1402809 B1 20060503**; DE 60304959 D1 20060608; DE 60304959 T2 20061221; ES 1052969 U 20030301; ES 1052969 Y 20030616; ES 2260593 T3 20061101

DOCDB simple family (application)

EP 03380209 A 20030923; DE 60304959 T 20030923; ES 03380209 T 20030923; ES 200202294 U 20020926