

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 A3 20040929 (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  $F_s$  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 1-7

**A47L 15/42**

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)

Citation (search report)

- [A] DE 2424288 A1 19741219 - PHILIPS NV
- [DA] US 5980006 A 19991109 - WILHELMSTAETTER JOHANN [DE], et al
- [A] EP 0392588 A1 19901017 - BAUKNECHT HAUSGERAETE [DE], et al

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