

Title (en)

Counterbalanced hinge device with vertical and frontal movement of a door particularly for dishwashing machine

Title (de)

Ausbalancierte Scharniervorrichtung mit senkrechter und frontaler Bewegung einer Tür insbesondere für Geschirrspülmaschine

Title (fr)

Dispositif de charnière contrebalancé avec mouvement vertical et frontal d'une porte en particulier pour lave-vaisselle

Publication

EP 1183988 A2 20020306 (EN)

Application

EP 01120308 A 20010824

Priority

IT BO20000505 A 20000830

Abstract (en)

A counterbalanced hinge device with vertical and frontal movement for a door particularly for dishwashing machine, includes a connection mean (1) to fixing means (10) of the dishwashing machine and a support mean (2) to which it is connected the door. The hinge device includes a crank (4) pivoted on the connection mean (1) and rotatably connected to the support mean (2), a first arm (6) pivoted on the connection mean (1) and rotatably connected to the support mean (2) and balancing means (11) connected to the fixing means (10) and to the support mean (2). The hinge device also includes cam means (15) rotatably connected to the balancing means (11) and articulated members (8), these latter being linked to the support mean (2). The hinge further includes friction means (14) connected to the cam means (15) and fit for friction mating the connection mean (1) for the door counterbalancing in correspondence of its change from a closing condition (C) to an opening condition (A) and vice versa. The cam means (15) are subject at least to a couple of opposed and misaligned forces, respectively of the balancing means (11) and the articulated members (8), in such a way to produce friction forces of the friction means (14) on said support mean (2) for contributing in counterbalancing the door. <IMAGE>

IPC 1-7

A47L 15/42

IPC 8 full level

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CPC (source: EP)

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Cited by

WO2020058366A1; EP3056644A1; CN108487806A; CN112325471A; IT201800009511A1; EP1302150A1; RU2667137C2; EP2620576A3; ITUB20150164A1; WO2009121815A1; EP2116167A1; EP2407723A1; US9427134B2; US11702878B2; EP2620576A2

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