

Title (en)

Damper hinge counter support system for a home appliance

Title (de)

Unterstützungssystem für einen Dämpferscharnier für ein Haushaltsgerät

Title (fr)

Système de support de charnière d'amortisseur pour appareil domestique

Publication

EP 2562341 A3 20140716 (EN)

Application

EP 12171509 A 20120611

Priority

TR 201108670 A 20110826

Abstract (en)

[origin: EP2562341A2] The invention is related to a damper counter support system (1) for home appliances (C) basically used in kitchens, said system being adapted to the counter support hinge of the door in order to prevent the slamming shut of the door during the closing motion. The system (1) ensures that the motion of the door (K) is absorbed in stages so that the door is slowed down when it is closing and it does not slam shut. Moreover the system (1) also eliminates the abrasion, wear and noise problems that might occur on the door (K) and/or the body of the home appliances (C) due to the opening and closing actions. The system is characterized in that the system enables angular movement according to the position of the door (K) as a difference to other systems. By means of this angular movement the pin (7) is placed on the bearing (21) located on the body of the hinge (2). Thus the damages that might occur on the door (K) are also prevented. Another characterization of the invention is that it comprises an second absorbing mechanism which absorbs the excessive loads applied on the damper (9) and prevents the damper from getting (9) damaged.

IPC 8 full level

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CPC (source: EP)

E05F 5/02 (2013.01); **F24C 15/023** (2013.01); **E05F 1/1261** (2013.01); **E05Y 2201/21** (2013.01); **E05Y 2201/264** (2013.01); **E05Y 2800/43** (2013.01); **E05Y 2900/308** (2013.01)

Citation (search report)

- [A] DE 102007029696 A1 20090108 - BSH BOSCH SIEMENS HAUSGERAETE [DE]
- [AD] EP 1995524 A2 20081126 - NUOVA STAR SPA [IT]

Cited by

CN107771237A; CN107355160A; CN105986724A; US10641027B2; US10041685B2; CN111406141A; EP3688261A4; EP3740696A4; WO2019066332A1; EP3179023A1; EP3688261B1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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DOCDB simple family (application)

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