

Title (en)

Soft/self closing system for built-in refrigerator door

Title (de)

Sanft/selbstschließendes System für Schiebetür-Einbaukühlschrank

Title (fr)

Système de fermeture automatique/souple pour réfrigérateur intégré à porte coulissante

Publication

**EP 2722621 A1 20140423 (EN)**

Application

**EP 12007239 A 20121019**

Priority

EP 12007239 A 20121019

Abstract (en)

A built-in household appliance assembly, comprising a household appliance (2) and a piece of furniture (10) housing the household appliance, the household appliance and the piece of furniture having respective doors (5, 13) connected in a sliding way with each other so that they can jointly rotate, around respective axes (7, 14), between a closed position where they are substantially parallel to a reference plane, and an open position where they form substantially a same rotation angle ( $\pm$ ) with the reference plane and they allow access to an internal compartment (6) of the household appliance; the assembly further comprises a coupling device (17) arranged between the doors, which comprises an elastic member (23) and a damper (25), and has a first operating mode when the rotation angle is between 0° and a limit value and a second operating mode when the rotation angle is greater than the limit value; wherein in the first operating mode the elastic member is active to allow self closing of the doors and the damper is active to allow soft closing of the doors, and in the second operating mode at least the elastic member is deactivated.

IPC 8 full level

**F25D 23/02** (2006.01); **F25D 23/10** (2006.01)

CPC (source: EP)

**F25D 23/028** (2013.01); **F25D 23/10** (2013.01); **E05Y 2900/302** (2013.01); **E05Y 2900/31** (2013.01)

Citation (search report)

- [X1] WO 2011101319 A2 20110825 - HETTICH ONI GMBH & CO KG [DE], et al
- [A] US 2010101052 A1 20100429 - WALTEMATE DIETER-HERMANN [DE], et al
- [A] EP 0657609 A1 19950614 - WHIRLPOOL EUROP [NL]
- [A] DE 20306043 U1 20040826 - LIEBHERR HAUSGERAETE [DE]
- [A] GB 2119435 A 19831116 - HETTICH PAUL & CO

Cited by

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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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