

Title (en)  
ELECTRICAL HOUSEHOLD APPLIANCE AND HINGE FOR AN ELECTRICAL HOUSEHOLD APPLIANCE

Title (de)  
ELEKTRISCHES HAUSHALTSGERÄT UND SCHARNIER FÜR EIN ELEKTRISCHES HAUSHALTSGERÄT

Title (fr)  
APPAREIL ÉLECTROMÉNAGER ET CHARNIÈRE POUR UN APPAREIL ÉLECTROMÉNAGER

Publication  
**EP 3108791 A1 20161228 (EN)**

Application  
**EP 15174051 A 20150626**

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Abstract (en)  
An electrical household appliance has a load-bearing structure, a door constrained to which is a front panel and a hinge (7) for hinging a lower region of the door to the load-bearing structure in such a way that the door can turn according to a substantially horizontal axis of rotation between a closed position and an open position, in which the door is substantially vertical and substantially horizontal, respectively. The hinge (7) comprises a first part (13), pre-arranged for fixing to the load-bearing structure of the electrical household appliance, and a second part (14), which is articulated to the first part (13) and is pre-arranged for fixing to the door of the electrical household appliance. The hinge (7) further comprises a transmission system (16, 18, 20, 22, 28, 29), which is configured for being connected to a front panel slidably carried by the door, the transmission system (16, 18, 20, 22, 28, 29) interacting with the first part (13) and the second part (14) of the hinge (7) and comprising a system of levers (16, 18, 20, 22) that includes at least one first lever (18), pivoted to which is a second lever (22) that connects the first lever (18) to a sliding member (28, 29) configured for fixing to the front panel. According to the invention: - the transmission system (16, 18, 20, 22, 28, 29) of the hinge (7) further comprises a third lever (20), which connects the second hinge part (14) to the first lever (18); - the hinge (7) has a first arrest arrangement (22a) pre-arranged for blocking angular movement of the second lever (22) relative to the first lever (18) in the aforesaid open position of the door (6); and - the hinge (7) has a second arrest arrangement (20a, 26) pre-arranged for blocking angular movement of the third lever (20) relative to the first hinge part (13) in the aforesaid open position of the door (6).

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**A47L 15/4261** (2013.01); **A47L 15/4265** (2013.01)

Citation (applicant)  
• EP 1529482 A1 20050511 - BONFERRARO SPA [IT]  
• EP 1894509 A1 20080305 - BONFERRARO SPA [IT]  
• EP 2407723 A1 20120118 - ELECTROLUX HOME PROD CORP [BE]

Citation (search report)  
• [AD] EP 2407723 A1 20120118 - ELECTROLUX HOME PROD CORP [BE]  
• [A] EP 2881029 A1 20150610 - BONFERRARO SPA [IT]  
• [AD] EP 1894509 A1 20080305 - BONFERRARO SPA [IT]  
• [A] WO 2014206778 A1 20141231 - CMI CERNIERE MECC IND [IT]

Cited by  
EP3928675A4; CN112535446A; EP4242404A1; CN110678114A; CN108577763A; EP3928674A4; US11950741B2; WO2020171393A1; WO2021145496A1

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