

Title (en)
Washing machine

Title (de)
Waschmaschine

Title (fr)
Machine à laver

Publication
EP 2682512 A3 20150715 (EN)

Application
EP 13174876 A 20130703

Priority
KR 20120074120 A 20120706

Abstract (en)
[origin: EP2682512A2] Provided is a washing machine having an improved structure in which a door may be firmly supported not to sag even though the door is repeatedly opened/closed for a long term while a user uses the washing machine. The washing machine includes: a main body (10); an opening (16) formed in a front side of the main body (10); a door (100) that opens/closes the opening (16); and a hinge member (200) that allows the door (100) to be rotatably coupled to the front side of the main body (10). The hinge member (200) includes: a hinge body (202) coupled to the front side of the main body; at least one hinge arm (204) that extends from the hinge body (202); and at least one stopper (240) that protrudes from an outer side of the hinge arm. The door (100) includes: at least one accommodation groove (128) in which at least a portion of the hinge arm (204) is accommodated; and a cover plate (140) that covers the accommodation groove (128) to support the hinge arm (204) and has at least one protrusion (146) that protrudes from an inner side of the cover plate (140) toward the hinge arm (204). When the door (100) opens the opening (16), the stopper (240) and the protrusion (146) are in contact with each other so that rotation of the door (100) can be limited.

IPC 8 full level
D06F 39/14 (2006.01)

CPC (source: CN EP KR US)
D06F 37/10 (2013.01 - KR); **D06F 37/26** (2013.01 - US); **D06F 37/28** (2013.01 - CN EP KR US); **D06F 39/14** (2013.01 - CN EP KR US); **E05D 3/00** (2013.01 - KR); **E05D 11/0054** (2013.01 - KR); **E05Y 2900/312** (2013.01 - KR)

Citation (search report)
• [X] EP 2402499 A1 20120104 - PANASONIC CORP [JP]
• [I] EP 1654411 B1 20100407 - ARCELIK AS [TR]
• [A] EP 0859079 A1 19980819 - CANDY SPA [IT]

Cited by
CN112095303A; ES2735806A1; EP3358068A1; US11060234B2; WO2016177424A1

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

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EP 2682512 A2 20140108; EP 2682512 A3 20150715; CN 103526508 A 20140122; KR 20140006647 A 20140116; US 2014009049 A1 20140109

DOCDB simple family (application)
EP 13174876 A 20130703; CN 201310284654 A 20130708; KR 20120074120 A 20120706; US 201313935780 A 20130705