

Title (en)
WASHING MACHINE

Title (de)
WASCHMASCHINE

Title (fr)
MACHINE À LAVER

Publication
EP 3342912 A4 20190227 (EN)

Application
EP 16838582 A 20160825

Priority
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Abstract (en)
[origin: EP3342912A1] A washing machine (1) is provided. The washing machine can prevent a driving mechanism (8) for rotating a washing drum (3) from breaking down. The washing drum (3) is rotatable and intersects with a vertical direction (Z). The washing machine (1) includes: a washing drum (3) which is rotatable and intersects with an up-down direction (Z); a rotating part (6) having a plurality of concave parts (6C) arranged in a rotating direction (K) of the washing drum (3), and the rotating part is connected with the washing drum (3) so that the rotating part rotates integrally with the washing drum; and a locking part (18) for locking rotation of the rotating part (6) by fitting in the concave parts (6C). In the washing machine (1), a nut member (35) is in threaded connection with the threaded shaft (32) and connected to the rotating part (6) so that the nut member moves along the threaded shaft (32) along with rotation of the threaded shaft (32), thereby causing the rotating part (6) to rotate. A backlash between the locking part (18) fitted in the concave parts (6C) and the rotating part (6) is smaller than a backlash between the threaded shaft (32) and the nut member (35).

IPC 8 full level
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Citation (search report)
• [XY] CN 103015119 A 20130403 - HAIER GROUP CO LTD, et al
• [Y] US 2343102 A 19440229 - WESELY EDWIN F
• [Y] DE 427025 C 19260322 - ARNOLD KAEGI
• [Y] US 5442937 A 19950822 - KWON HO C [KR]
• [A] US 5327603 A 19940712 - ROH YANG H [KR], et al
• [A] JP 3196947 U 20150409
• [A] WO 2005068707 A1 20050728 - KANNEGIESSE H GMBH CO [DE], et al
• See references of WO 2017032324A1

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