Title (en)

DISCHARGE STRUCTURE OF WATER-SAVING WASHING MACHINE AND WASHING MACHINE

Title (de)

ENTLADUNGSSTRUKTUR EINER WASSERSPARENDEN WASCHMASCHINE SOWIE WASCHMASCHINE

Title (fr)

STRUCTURE D'ÉVACUATION DE MACHINE À LAVER À ÉCONOMIE D'EAU, ET MACHINE À LAVER

Publication

EP 3369856 A4 20181024 (EN)

Application

EP 16859046 A 20161027

Priority

- CN 201510717616 A 20151029
- CN 2016103554 W 20161027

Abstract (en)

[origin: EP3369856A1] A drainage structure of a water-saving washing machine and the washing machine, a central hole (1) is arranged at the inner tub bottom (29) of the washing machine, and an annular groove (2) is arranged around the central hole (1) ; the inner part and the outer part of the inner tub (29) are communicated with a water flow passage on the annular groove (2), and the annular groove (2) is provided with an sealing member (3) capable of reciprocating motion for controlling the on-off state of the water flow passage. The upper part of the sealing member (3) is provided with an elastic member (4) for controlling the downward movement of the sealing member (3) to contact with the inner tub bottom (7) and/or the bottom surface of the annular groove (2), and the lower part of the sealing member (3) is provided with an driving member (5) for controlling the upward movement of the sealing member (3) to separate from the inner tub bottom (7) and/or the bottom surface of the annular groove (2). As the control of the drainage is so long as controlling the reciprocation of the sealing member (3), the control is simple; in addition, the sealing member (3) is disposed in the inner annular groove (2) at the inner tub bottom (7), and it is relatively fixed with the inner tub (29) at the rotational direction. In this way, the wear of the sealing member (3) is small, and the reliability is high; the accuracy demand of the positioning of the inner tub (29) is lower, and the positioning structure and the control program of the inner tub (29) is simplified; all the seals are the end face contacting seals, which are reliable.

IPC 8 full level

D06F 39/08 (2006.01); D06F 23/04 (2006.01); D06F 37/12 (2006.01)

CPC (source: CN EP KR US)

D06F 17/06 (2013.01 - CN); **D06F 17/08** (2013.01 - KR US); **D06F 23/04** (2013.01 - KR); **D06F 37/12** (2013.01 - KR); **D06F 37/266** (2013.01 - KR); **D06F 39/081** (2013.01 - KR); **D06F 39/083** (2013.01 - CN EP KR US); D06F 23/04 (2013.01 - EP US); D06F 37/12 (2013.01 - EP US)

Citation (search report)

- [XA] US 5152159 A 19921006 - KABEYA KATSUHEI [JP], et al
- [A] CN 103898708 A 20140702 - HAIER GROUP CO LTD, et al
- See references of WO 2017071611A1

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)

EP 3369856 A1 20180905; **EP 3369856 A4 20181024**; **EP 3369856 B1 20210901**; CN 106637839 A 20170510; CN 106637839 B 20191112; JP 2018532504 A 20181108; KR 20180074710 A 20180703; US 2018305853 A1 20181025; WO 2017071611 A1 20170504

DOCDB simple family (application)

EP 16859046 A 20161027; CN 201510717616 A 20151029; CN 2016103554 W 20161027; JP 2018521840 A 20161027; KR 20187013784 A 20161027; US 201615770849 A 20161027