

Title (en)
DRAINAGE STRUCTURE OF WASHING MACHINE AND DRAINAGE METHOD THEREFOR

Title (de)
DRAINAGESTRUKTUR FÜR WASCHMASCHINE UND DRAINAGEVERFAHREN DAFÜR

Title (fr)
STRUCTURE DE DRAINAGE DE MACHINE À LAVER ET SON PROCÉDÉ DE DRAINAGE

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Application
EP 18791523 A 20180427

Priority
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Abstract (en)
[origin: EP3617371A1] The disclosure relates to a draining structure of a washing machine and a draining method, an inner drum (1) is installed in a housing (2) of the washing machine, the inner drum (1) is a tapered drum with a smaller diameter at one end and a larger diameter at the other end, and a draining flow passage (32) is arranged at a larger end of the inner drum (1); one end of the draining flow passage (32) is communicated with the larger end of the inner drum (1), and the other end of the draining flow passage (32) is penetrated out of the inner drum (1) and communicated with a drain pipe (31) of the washing machine. The inner drum (1) rotates at a certain rotating speed, and washing water in the inner drum (1) flows to the larger end of the inner drum (1) along the tapered inner wall under the action of centrifugal force, and washing water is drained out from the inner drum (1) through the draining flow passages (32) arranged at the larger end when reaching to the larger end of the inner drum (1), and then drained out from the washing machine through the drain pipe (31) to realize the discharge of washing water in the inner drum (1) is drained out. In this way, the effect that during the rotating process of the inner drum (1), the inner drum (1) is sealed, and during drainage, the drain valve is opened to allow water in the inner drum (1) to be discharged normally is realized, and the purpose of normal drainage of the washing machine having dual effects that the inner drum (1) rotating and water holding is achieved; besides, the inner drum (1) does not have to be sleeved with an outer drum, thus increasing the volume of the inner drum (1) and improving the washing capacity of the washing machine.

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Citation (search report)
• [XA] EP 2889413 A1 20150701 - DONGBU DAEWOO ELECTRONICS CORP [KR]
• [XA] CN 106436138 A 20170222 - WUXI LITTLE SWAN CO LTD
• [A] EP 2557215 A1 20130213 - SAMSUNG ELECTRONICS CO LTD [KR]
• See references of WO 2018196846A1

Cited by
EP3760779A4; US11530506B2

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