

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

Publication  
**EP 3617371 A1 20200304 (EN)**

Application  
**EP 18791523 A 20180427**

Priority  
• CN 201710293370 A 20170428  
• CN 2018084808 W 20180427

Abstract (en)  
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.

IPC 8 full level  
**D06F 37/04** (2006.01); **D06F 23/02** (2006.01)

CPC (source: CN EP US)  
**D06F 23/02** (2013.01 - US); **D06F 37/12** (2013.01 - US); **D06F 37/26** (2013.01 - US); **D06F 37/267** (2013.01 - CN);  
**D06F 39/083** (2013.01 - CN EP US); **D06F 23/025** (2013.01 - EP); **D06F 23/065** (2013.01 - EP); **D06F 37/04** (2013.01 - US);  
**D06F 37/06** (2013.01 - EP)

Cited by  
EP3760779A4; US11530506B2

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 3617371 A1 20200304**; **EP 3617371 A4 20200318**; **EP 3617371 B1 20220112**; CN 108797022 A 20181113; CN 108797022 B 20220830;  
JP 2020518341 A 20200625; JP 7046101 B2 20220401; US 2020087841 A1 20200319; WO 2018196846 A1 20181101

DOCDB simple family (application)  
**EP 18791523 A 20180427**; CN 201711007289 A 20171025; CN 2018084808 W 20180427; JP 2019558717 A 20180427;  
US 201816609086 A 20180427