

Title (en)

WATER-BEARING DOMESTIC APPLIANCE HAVING A CANNED MOTOR PUMP

Title (de)

WASSERFÜHRENDES HAUSHALTSGERÄT MIT EINER SPALTROHRPUMPE

Title (fr)

APPAREIL MÉNAGER À CIRCULATION D'EAU COMPRENANT UNE POMPE À ROTOR NOYÉ

Publication

EP 3047150 A1 20160727 (DE)

Application

EP 13770413 A 20130917

Priority

- EP 2013069200 W 20130917
- DE 102012224262 A 20121221
- DE 102012224263 A 20121221

Abstract (en)

[origin: WO2014095102A1] The invention relates to a water-bearing domestic appliance, in particular a domestic dishwasher (1), comprising a canned motor pump (2). The canned motor pump comprises a housing (4) that has a rotor chamber (6) and conducts liquid at least in operating phases, a rotor unit (8) rotatably attached in the rotor chamber (6), a conveying wheel (14) for conveying the liquid, which is provided in a conveying region (40), and a shaft (16) extending inside the housing (4) at least by means of a partial section (18). By means of the shaft (16), the rotor unit (8) and/or the conveying wheel (14) are coupled to each other, in particular the rotor unit (8) and/or the conveying wheel (14) are connected to the shaft (16) in a rotationally fixed manner. The shaft (16) is supported inside the rotor chamber (6) on the side (23) of the rotor unit (8) facing the conveying wheel (14) by means of a first bearing (22) and on the side (25) of the rotor unit (8) facing away from the conveying wheel (14) by means of a second bearing (24). At least one connecting channel (34) through which fluid can pass is led through the rotor jacket (50) of the rotor unit (8) between the radial inner edge (41) of the rotor unit and the radial outer edge (42) of the rotor unit in such a way that said connecting channel connects a region (28) accommodating the second bearing (24) on the side (25) of the rotor unit (8) facing away from the conveying wheel (14) to a region (26) accommodating the first bearing (22) on the side (23) of the rotor unit (8) facing the conveying wheel.

IPC 8 full level

F04D 13/06 (2006.01); **A47L 15/42** (2006.01); **D06F 39/08** (2006.01)

CPC (source: EP US)

A47L 15/4225 (2013.01 - EP); **D06F 39/085** (2013.01 - EP US); **F04D 13/0633** (2013.01 - EP US); **D06F 2103/48** (2020.02 - EP US); **F04D 29/026** (2013.01 - EP); **F05D 2230/20** (2013.01 - EP); **F05D 2300/44** (2013.01 - EP); **F05D 2300/603** (2013.01 - EP)

Citation (search report)

See references of WO 2014095102A1

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)

WO 2014095102 A1 20140626; EP 3047150 A1 20160727; EP 3047150 B1 20170607; PL 3047150 T3 20171130

DOCDB simple family (application)

EP 2013069200 W 20130917; EP 13770413 A 20130917; PL 13770413 T 20130917