

Title (en)
HEATING PUMP AND WASHING APPLIANCE

Title (de)
WÄRMEPUMPE UND WASCHMASCHINE

Title (fr)
POMPE DE CHAUFFAGE ET APPAREIL DE LAVAGE

Publication
EP 3751150 A4 20210217 (EN)

Application
EP 17935583 A 20171228

Priority
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• CN 2017119554 W 20171228

Abstract (en)
[origin: EP3751150A1] A heating pump and a washing appliance. The heating pump includes a pump housing (1) and a pump cover assembly (2). The pump housing (1) includes an outlet and a side wall (11) extending around the outlet. The pump cover assembly (2) includes an annular support portion (21) covering the outlet and a heating element (22) thermal-conductively mounted on the support portion (21). The support portion (21) separates the heating element (22) from fluid in the heating pump, and a surface of the support portion (21) in contact with the fluid is flat. The heating pump and the washing appliance of the invention can heat the fluid while pumping, and are simply structured. The surface of the support portion in contact with the fluid is flat, thus reducing the friction between the fluid and the support portion, improving the pump efficiency and reducing the energy consumption.

IPC 8 full level
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F04D 29/588 (2013.01 - CN EP); **F04D 29/5893** (2013.01 - EP); **A47L 15/4285** (2013.01 - EP); **D06F 39/04** (2013.01 - EP)

Citation (search report)
• [XYI] CN 203516209 U 20140402 - HANGZHOU HEATWELL MECHANICAL & ELECTRICAL CO LTD
• [XA] CN 104456917 A 20150325 - HANGZHOU ZUOPASI INDUSTRY CO LTD
• [YA] US 2006236999 A1 20061026 - PLESCHINGER ANDREAS [AT], et al
• See also references of WO 2019119507A1

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

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EP 3751150 A1 20201216; **EP 3751150 A4 20210217**; **EP 3751150 B1 20240403**; CN 108167230 A 20180615; CN 108167230 B 20200331;
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