

Title (en)
HEAT PUMP WITH A MOTOR COOLING ARRANGEMENT

Title (de)
WÄRMEPUMPE MIT EINER MOTORKÜHLUNG

Title (fr)
POMPE À CHALEUR AVEC REFROIDISSEMENT DE MOTEUR

Publication
EP 3423763 A1 20190109 (DE)

Application
EP 17709021 A 20170228

Priority
• DE 102016203408 A 20160302
• EP 2017054626 W 20170228

Abstract (en)
[origin: WO2017148934A1] A heat pump comprises a condenser (114) with a condenser housing; a compressor motor which is mounted on the condenser housing (114) and which has a rotor and a stator (308), wherein the rotor has a motor shaft (306) on which a compressor wheel (304) for compressing working medium vapour is mounted, and wherein the compressor motor has a motor wall (309); a motor housing (300) which surrounds the compressor motor and which has a working medium inlet (362, 330) for conducting liquid working medium from the condenser onto the motor wall (309) for the purposes of motor cooling, wherein the motor housing (300) is furthermore designed to form a vapour chamber (323) during the operation of the heat pump, and wherein the motor housing (300) furthermore has a vapour exhaust (324) for discharging vapour out of the vapour chamber (323) in the motor housing.

IPC 8 full level
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CPC (source: EP US)
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Citation (search report)
See references of WO 2017148934A1

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DE 102016203408 A1 20170907; CN 109073289 A 20181221; CN 109073289 B 20210824; EP 3423763 A1 20190109; JP 2019513213 A 20190523; JP 6669887 B2 20200318; US 10724770 B2 20200728; US 2018363959 A1 20181220; WO 2017148934 A1 20170908

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