

Title (en)
ELECTRIC COOLANT PUMP

Title (de)
ELEKTRISCHE KÜHLMITTELPUMPE

Title (fr)
POMPE ÉLECTRIQUE À RÉFRIGÉRANT

Publication
EP 3759356 A1 20210106 (DE)

Application
EP 18825616 A 20181213

Priority
• DE 102018104770 A 20180302
• EP 2018084743 W 20181213

Abstract (en)
[origin: WO2019166118A1] The invention relates to an electric coolant pump (1), in particular for pumping cooling liquid for cooling an internal combustion engine of a vehicle. The electric coolant pump (1) has a pump impeller (2) for accelerating the coolant to be pumped, a rotor shaft (3), on which the pump impeller (2) is mounted, an electric motor (6) having a stator (8) and a rotor (7) for driving the rotor shaft (3), a control circuit (13) for controlling the electric motor (6), and a pump housing (10), which holds at least the control circuit (13) and the electric motor (6). The coolant to be pumped can flow through the pump housing (10). The coolant to be pumped thus flows around the stator (8), the rotor (7) and the control circuit (13).

IPC 8 full level
F04D 29/58 (2006.01)

CPC (source: EP US)
F04D 13/06 (2013.01 - US); **F04D 13/0653** (2013.01 - EP); **F04D 29/5806** (2013.01 - EP US); **F04D 29/5813** (2013.01 - EP US); **F04D 29/586** (2013.01 - US); **F04D 7/00** (2013.01 - US); **F04D 13/0653** (2013.01 - US); **F04D 29/046** (2013.01 - US); **F04D 29/588** (2013.01 - US); **F04D 29/708** (2013.01 - US); **F05B 2260/232** (2013.01 - US)

Citation (search report)
See references of WO 2019166118A1

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)
DE 102018104770 A1 20190905; BR 112020017549 A2 20201222; CN 111801501 A 20201020; EP 3759356 A1 20210106; EP 3759356 B1 20221123; US 11708843 B2 20230725; US 2021003147 A1 20210107; WO 2019166118 A1 20190906

DOCDB simple family (application)
DE 102018104770 A 20180302; BR 112020017549 A 20181213; CN 201880090629 A 20181213; EP 18825616 A 20181213; EP 2018084743 W 20181213; US 201816976663 A 20181213