

Title (en)

Automotive electrical coolant pump with crimped housing

Title (de)

Elektrische Kraftfahrzeugkühlmittelpumpe mit gebördeltem Gehäuse

Title (fr)

Pompe à liquide de refroidissement électrique d'automobile avec carter serti

Publication

EP 2796722 B1 20160316 (EN)

Application

EP 13165573 A 20130426

Priority

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Abstract (en)

[origin: EP2796722A1] The invention refers to an automotive electrical coolant pump (10) comprising a pump section (12) with an pump wheel (40) and a motor section (14) with a motor rotor (52) and a motor stator (50). The pump housing comprises a pump section housing (42) and a separate motor section housing (44) which is fixed to the pump section housing (42). The pump section housing (42) comprises an axial coolant inlet (24) and a tangential coolant outlet (26). The fixation of the pump section housing (42) with the motor section housing (44) is provided by a bordering arrangement (20). The bordering arrangement (20) is defined by a circular fixation bulge (36) at the axial end of one section housing (42) and a circular bordering ring (34) at the axial end of the other section housing (44). The bordering ring (34) embraces the fixation bulge (36). The fixation bulge (36) is provided with at least one chamfer depression (37) and a bordering tongue (38) of the bordering ring (34) is projecting into the chamfer depression (37).

IPC 8 full level

F04D 13/06 (2006.01); **F04D 29/12** (2006.01); **F04D 29/42** (2006.01); **F04D 29/62** (2006.01)

CPC (source: EP)

F04D 13/06 (2013.01); **F04D 29/426** (2013.01); **F04D 29/628** (2013.01); **F04D 29/086** (2013.01); **F05D 2260/36** (2013.01)

Cited by

EP3242031A1; DE202018101223U1; WO2017140334A1; WO2017220119A1; US10935028B2

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DOCDB simple family (publication)

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