

Title (en)

COOLANT COOLING DEVICE OF AN INTERNAL-COMBUSTION ENGINE

Publication

**EP 0183596 B1 19880518 (FR)**

Application

**EP 85402165 A 19851108**

Priority

FR 8417386 A 19841114

Abstract (en)

[origin: EP0183596A1] 1. Device for cooling a heat-carrying fluid of a heat engine comprising a radiator (1, 16, 31) fixed on a chassis for example of a motor vehicle, and at least one motor-fan unit (4, 17, 32) comprising an electric motor (5, 18, 33) and a propeller (7, 20, 34), whose hub (9, 22) is constituted by a bowl, whose edge surrounds part of the electric motor and which is fixed on the shaft of the electric motor, characterized in that the electric motor (5, 18, 33) is fixed directly to the radiator by fixing means (11, 12, 13, 25, 26, 27) located to the right of the projection of the transverse extent of the bowl of the propeller and in that the edge of the bowl surrounds the part of the electric motor (5, 18, 33) and the part of the fixing means projecting from the radiator.

IPC 1-7

**F01P 5/02; F28D 1/02**

IPC 8 full level

**F01P 5/02 (2006.01); F28F 9/00 (2006.01)**

CPC (source: EP)

**F01P 5/02 (2013.01); F28F 9/002 (2013.01); F01P 2070/50 (2013.01)**

Cited by

DE19710608A1; US6179043B1; FR2785979A1; DE19534108A1; FR2730047A1; EP1500801A1; DE10333882A1; EP0724123A1; FR2729895A1; US5638894A; US6230792B1; FR3033833A1; DE10209237A1; DE10209237B4; EP0724071A1; FR2730009A1; FR2632012A1; EP0952353A1; FR2777597A1; EP0724124A1; FR2730046A1; US5813489A; FR2730008A1; WO03074849A1; US8827224B2

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**EP 0183596 A1 19860604; EP 0183596 B1 19880518;** DE 3562794 D1 19880623; ES 290506 U 19860316; ES 290506 Y 19861016; FR 2573128 A1 19860516; FR 2573128 B1 19881028; JP S61126316 A 19860613

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