

Title (en)

DEVICE AND METHOD FOR COOLING A THERMAL MEMBER IN AN AUTOMOBILE

Title (de)

VORRICHTUNG UND VERFAHREN ZUM KÜHLEN EINES WÄRMEGLIEDS IN EINEM KRAFTFAHRZEUG

Title (fr)

DISPOSITIF ET PROCEDE DE REFROIDISSEMENT D'UN ORGANE THERMIQUE DE VEHICULE AUTOMOBILE

Publication

**EP 2368027 A1 20110928 (FR)**

Application

**EP 09797094 A 20091126**

Priority

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Abstract (en)

[origin: WO2010072933A1] The invention relates to a cooling device (1) that includes a main cooling circuit (2) capable of adjusting the temperature of a thermal member (4), a secondary cooling circuit (3) including a first assembly (9) of at least two heat exchangers (10, 11) mounted in parallel, and a thermal coupling means (5) between the main cooling circuit (2) and the secondary cooling circuit (3). The cooling device (1) further comprises a temperature sensor (13) mounted in series on the secondary cooling circuit (3) and downstream from the first assembly (9), and a control unit including a first means capable of estimating, with a state monitor, the outlet temperature of each heat exchanger of the first assembly from the inlet temperature of a coolant at the inlet of each heat exchanger of the first assembly and from the values measured by the sensor temperature (13).

IPC 8 full level

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