Title (en)

SYSTEM AND METHOD FOR COOLING A MOTOR PROPULSION UNIT ON A MOTOR VEHICLE

Title (de)

SYSTEM UND VERFAHREN ZUR KÜHLUNG EINER MOTORANTRIEBSEINHEIT EINES KRAFTFAHRZEUGES

Title (fr)

SYSTEME ET PROCEDE DE REFROIDISSEMENT D'UN GROUPE MOTOPROPULSEUR DE VEHICULE AUTOMOBILE

Publication

EP 2126309 A1 20091202 (FR)

Application

EP 08762093 A 20080214

Priority

- FR 2008050245 W 20080214
- FR 0754035 A 20070326

Abstract (en)

[origin: WO2008116992A1] A main circuit (9) cools a first set of elements of the motor propulsion unit to a first temperature level. A secondary circuit (26) cools a second set of elements to a second temperature level, lower than the first level. A main radiator (10) is sub-divided into at least one main chamber (18) making up part of the main circuit and a secondary chamber (19) making up part of the secondary circuit. A thermostatic valve (8) is arranged in the main circuit (9) downstream of the heat engine, which isolates the main radiator (10) when the temperature is below a first threshold. An expansion chamber (12) is arranged downstream of the thermostatic valve (8). The secondary compartment (19) can also be part of the principal circuit (9) in one operating mode of the system. An auxiliary radiator (11) is arranged parallel to the principal radiator (10). A controlled valve (34) is arranged in a branch (35) such as to totally shut when the temperature of the heat transfer fluid is below a second threshold above the first threshold.

IPC 8 full level

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CPC (source: EP)

F01P 7/165 (2013.01); **F01P 11/029** (2013.01); **F01P 11/08** (2013.01); F01P 2005/125 (2013.01); F01P 2060/02 (2013.01); F01P 2060/04 (2013.01); F01P 2060/045 (2013.01); F01P 2060/16 (2013.01)

Citation (search report)

See references of WO 2008116992A1

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