

Title (en)

Module for a cooling circuit and circuit comprising such a module

Title (de)

Modul für einen Kühlungskreislauf und Kreislauf mit solchem Modul

Title (fr)

Module pour circuit de refroidissement et circuit comprenant un tel module

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Application

EP 03015554 A 20030710

Priority

FR 0208861 A 20020712

Abstract (en)

The present invention relates to a central module for a cooling circuit in a vehicle with an internal combustion engine. <??>Module (1) characterised in that it forms a hollow rigid body with a plurality of cavities, made up by assembly of three structural sub-modules (1', 1" and 1'''), namely a first sub-module (1') comprising a hollow part (12) with a flow distribution chamber (12'), two portions of conduits (13, 13') of the sub-circuit (9) supplying the radiator (7') of the main unit heater (7), a portion of conduit (14) of the sub-circuit (10) supplying the radiator (8') of the secondary unit heater (8) and a portion of conduit (15) of the sub-circuit (11) supplying the heat exchanger (6), a second sub-module (1'') comprising at least a part of the casing (16) of the heat exchanger (6), additional portions of conduits (17, 17') of the sub-circuit (11) supplying the latter and an additional portion of conduit (18) of the sub-circuit (9) supplying the radiator (7') and a third sub-module (1''') comprising the feed pump (5), end portions of conduit (19, 19' and 19'') respectively of the sub-circuit (9) supplying the radiator (7'), of the sub-circuit (11) supplying the heat exchanger (6) and of the sub-circuit (10) supplying the radiator (8') and portions of conduit (20 and 20') forming a part of the common segment of the portion of main circuit (3) extending upstream and downstream of the feed pump (5). <IMAGE>

IPC 1-7

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Citation (search report)

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EP 1380736 A1 20040114; **EP 1380736 B1 20070905**; AT E372451 T1 20070915; DE 60316077 D1 20071018; DE 60316077 T2 20080605; ES 2290388 T3 20080216; FR 2842250 A1 20040116; FR 2842250 B1 20040924

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