

## Title (en)

Cooling device for liquid-cooled internal-combustion engines.

## Title (de)

Kühlvorrichtung für flüssigkeitsgekühlte Brennkraftmaschinen.

## Title (fr)

Dispositif de refroidissement pour moteur à combustion interne à refroidissement liquide.

## Publication

**EP 0061597 A1 19821006 (DE)**

## Application

**EP 82101629 A 19820303**

## Priority

DE 3112202 A 19810327

## Abstract (en)

[origin: US4425877A] A cooling arrangement for liquid-cooled internal combustion engines, with the cooling arrangement including a heat exchanger constructed as a radiator for effecting cooling between air and a coolant liquid. The cooling arrangement includes a housing accommodating a thermostat with a mixing chamber, defined in the housing, being connected with a return flow coolant tank. The thermostat is adapted to provide for temperature dependent regulated portions of cooled and uncooled liquid coolant flowing into the mixing chamber. The housing of the thermostat, a bypass connection piece, and an outlet connection of the housing are molded, in one piece to the return flow coolant tank of the heat exchanger. A lid or cover provided with recesses as well as window-like openings formed in a portion of the housing form an inside connection between the return flow coolant tank and the mixing chamber with the connection being controlled by a radiator valve disk of a thermostat insert of the thermostat.

## Abstract (de)

Der Kühler der als Wärmetauscher (1) zwischen Luft und Kühlflüssigkeit ausgebildet ist, ist mit dem Rücklauf-Wasserkasten (4) die Mischkammer (26) des Gehäuses (10) eines Thermostats (10') verbunden, in die die temperaturabhängig geregelten Anteile gekühlter und ungekühlter Kühlflüssigkeit strömen. Das Gehäuse (10) des Thermostats (10'), ein Kurzschluß-Anschlußstutzen (11) und ein Austrittsstutzen (12) sind dem Rücklauf-Wasserkasten (4) des Wärmetauschers (1) einteilig angeformt. Ein Verschlußdeckel (8) mit Aussparungen (22) sowie fensterartige Öffnungen (24) im Gehäuse (10) des Thermostats (10') bilden eine innere Verbindung zwischen dem Rücklauf-Wasserkasten (4) und der Mischkammer (26) über ein Kühler-Ventilteller (16) des Thermostateinsatzes (13).

## IPC 1-7

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## IPC 8 full level

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## Citation (search report)

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- [A] US 1515742 A 19241118 - MANVILLE KEITH R
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FR2736385A1; EP0563529A3; FR3105982A1; EP0364363A1; FR2637971A1; US4995449A; WO2021139980A1

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## DOCDB simple family (application)

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