

Title (en)
COOLING SYSTEM AND MOTOR VEHICLE

Title (de)
KÜHLSYSTEM UND KRAFTFAHRZEUG

Title (fr)
SYSTÈME DE REFROIDISSEMENT ET VÉHICULE AUTOMOBILE

Publication
EP 3434873 B1 20211110 (DE)

Application
EP 18182606 A 20180710

Priority
DE 102017116600 A 20170724

Abstract (en)
[origin: CN109296444A] Provided is a cooling system for a motor vehicle, comprising at least one cooling loop, at least one coolant pump for transmitting liquid coolant along the defined conveying direction in the cooling loop and a heat exchanger integrated in the cooling loop. The coolant pump and the heat exchanger are directly and/or indirectly connected to each other through coolant pipelines for constructing the cooling loop. A first ventilating pipeline branches from the cooling loop and leads to a compensation container of the cooling system, and a second ventilating pipeline is connected to one segment of the heat exchanger and the coolant pipeline. The second ventilating pipeline is connected to the segment of the coolant pipeline, and is disposed at the upstream of the coolant pump along the defined conveying direction, and is provided with a constant flowing cross section area. Accordingly, the segment of the second ventilating pipeline should not be structured as a venturi nozzle, and flow loss in the flowing of liquid coolant can be prevented.

IPC 8 full level
F01P 11/02 (2006.01); **F01P 11/04** (2006.01)

CPC (source: CN EP)
F01P 11/028 (2013.01 - EP); **F01P 11/0285** (2013.01 - CN); **F01P 11/029** (2013.01 - EP); **F01P 11/04** (2013.01 - EP);
F01P 2050/24 (2013.01 - EP)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 3434873 A1 20190130; **EP 3434873 B1 20211110**; CN 109296444 A 20190201; CN 109296444 B 20211119;
DE 102017116600 A1 20190124

DOCDB simple family (application)
EP 18182606 A 20180710; CN 201810811733 A 20180723; DE 102017116600 A 20170724