

Title (en)
Cooling system in a vehicle

Title (de)
Kühlsystem in einem Fahrzeug

Title (fr)
Système de refroidissement dans un véhicule

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Application
EP 12155262 A 20120214

Priority
SE 1150168 A 20110225

Abstract (en)
The present invention relates to a cooling system in a vehicle (1) powered by a combustion engine (2). The cooling system comprises a coolant pump (3) adapted to circulating coolant in the cooling system, and an expansion tank (12) which allows expansion of the coolant in the cooling system during operation. The cooling system has pressure-providing means (17-20) which make active pressurisation of the coolant in the cooling system possible close to at least one inlet to the coolant pump (3), and a control unit (21) adapted to receiving information which indicates when the pump starts and to activating said pressure-providing means (17-20) to create a positive pressure close to the inlet to the coolant pump (3) during a starting process of the pump.

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F01P 5/14 (2013.01 - EP); **F01P 11/029** (2013.01 - EP SE); **F01P 11/18** (2013.01 - SE)

Citation (applicant)
DE 102007058575 A1 20090610 - MAN NUTZFAHRZEUGE AG [DE]

Citation (search report)
• [X] WO 2008097166 A1 20080814 - VOLVO LASTVAGNAR AB [SE], et al
• [A] DE 102005007781 A1 20060824 - MAN NUTZFAHRZEUGE AG [DE]
• [A] DE 1426186 A1 19690508 - GRATZMULLER JEAN LOUIS

Cited by
CN104838107A; CN103687444A; RU2704588C2; DE112015000401B4; ITMI20131977A1; EP2878785A1; DE102020114381A1; WO2014092627A1; WO2015119567A1; US10823044B2

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