

Title (en)

COOLING SYSTEM FOR VEHICLES WITH FLUID-COOLED COMBUSTION ENGINE

Title (de)

KÜHLSYSTEM FÜR FAHRZEUGE MIT FLÜSSIGKEITSGEKÜHLTER BRENNKRAFTMASCHINE

Title (fr)

SYSTÈME DE REFROIDISSEMENT POUR VÉHICULES DOTÉS D'UN MOTEUR À COMBUSTION INTERNE REFROIDI PAR DU LIQUIDE

Publication

**EP 2169233 B1 20210331 (DE)**

Application

**EP 09009316 A 20090717**

Priority

DE 102008049204 A 20080927

Abstract (en)

[origin: EP2169233A2] The liquid-cooling system has coolant pump (4), where the flow in coolant pump is regulated by a control element. The coolant pump is formed with multiple two-pass, where each two-pass is separated by refrigerant circuits that are associated pump venting (35).

IPC 8 full level

**F01P 7/14** (2006.01); **F01P 7/16** (2006.01); **F04D 1/00** (2006.01); **F04D 15/00** (2006.01); **F04D 15/02** (2006.01)

CPC (source: EP)

**F01P 7/161** (2013.01); **F04D 1/00** (2013.01); **F04D 15/0038** (2013.01); **F04D 15/0209** (2013.01); **F01P 2007/146** (2013.01); **F05D 2270/64** (2013.01)

Cited by

US9528521B2; WO2015192820A1; DE102010026132A1; EP2455615A3; FR2978207A1; CN103459798A; US2014212267A1; CN103591020A; DE102014009367B3; EP3290713A1; WO2013034126A1; WO2012116676A1

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DOCDB simple family (publication)

**EP 2169233 A2 20100331; EP 2169233 A3 20170329; EP 2169233 B1 20210331; DE 102008049204 A1 20100401**

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