

Title (en)
Coolant circuit

Title (de)
Kühlmittelkreislauf

Title (fr)
Circuit d'agent réfrigérant

Publication
EP 2562379 B1 20151014 (DE)

Application
EP 11178432 A 20110823

Priority
EP 11178432 A 20110823

Abstract (en)
[origin: EP2562379A1] The circuit has a pump (4), a cooler (6) and a control element (7) comprising a thermostat (12) i.e. partial load thermostat, and a proportional valve (13) separated from the thermostat. The thermostat and the valve are arranged parallel to an outlet casing (8). The valve has a block water pipe (14) for a motor block water jacket (3), a heater pipe (16) for a heater (9) and a cooler pipe (17) for the cooler, where the thermostat has a connection pipe for the cooler. The thermostat and the valve are switched independent of each other, where the jacket ends into a cooler return line (23).

IPC 8 full level
F01P 7/14 (2006.01); **F01P 7/16** (2006.01); **F01P 3/02** (2006.01)

CPC (source: EP RU)
F01P 3/207 (2013.01 - RU); **F01P 7/14** (2013.01 - EP); **F01P 7/165** (2013.01 - EP RU); **F01P 2003/028** (2013.01 - EP);
F01P 2007/146 (2013.01 - RU); **F01P 2060/08** (2013.01 - EP)

Cited by
WO2021163743A1; US2022194211A1; CN112065565A; CN115135862A; AT514793A1; AT514793B1; CN108425733A; CN111502815A; US2022364494A1; US11624311B2; DE102018107128B4; US10858980B2

Designated contracting state (EPC)
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EP 2562379 A1 20130227; **EP 2562379 B1 20151014**; RU 2012135988 A 20140227; RU 2605493 C2 20161220

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