

Title (en)

Cooling system, in particular for a motor vehicle

Title (de)

Kühlsystem, insbesondere eines Kraftfahrzeuges

Title (fr)

Système de refroidissement, en particulier d'un véhicule automobile

Publication

EP 2148059 A3 20120208 (DE)

Application

EP 09009331 A 20090717

Priority

DE 102008034973 A 20080725

Abstract (en)

[origin: EP2148059A2] The cooling system has a hydrodynamic coupling (5) with a primary gear (6) and a secondary gear (7) which forms a torus-shaped operation space. The operation space is filled and emptied by a working medium or a working medium outlet for transferring a hydrodynamic torque from the primary gear to the secondary gear. A pump impeller is coupled with the secondary gear in a rotational manner.

IPC 8 full level

F01P 5/12 (2006.01); **F01P 7/16** (2006.01); **F01P 7/04** (2006.01)

CPC (source: EP)

F01P 5/12 (2013.01); **F01P 7/164** (2013.01); **F01P 7/167** (2013.01); **F01P 2025/60** (2013.01); **F01P 2060/06** (2013.01)

Citation (search report)

- [XA] DE 3241835 C1 19840216 - DAIMLER BENZ AG
- [A] DE 4415031 C1 19950511 - DAIMLER BENZ AG [DE]
- [A] DE 102005009456 A1 20060907 - VOITH TURBO KG [DE]
- [A] EP 0974742 A2 20000126 - DAIMLER CHRYSLER AG [DE]

Cited by

EP3730796A1; CN111254499A; EP2785995A4; WO2013082400A1; US9416720B2; US10119453B2; US10914227B2

Designated contracting state (EPC)

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 SE SI SK SM TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

EP 2148059 A2 20100127; **EP 2148059 A3 20120208**; **EP 2148059 B1 20130220**; DE 102008034973 A1 20100128; EP 2559878 A1 20130220

DOCDB simple family (application)

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