

Title (en)  
THERMAL REGULATION DEVICE FOR AN ENGINE

Title (de)  
WÄRMEREGELVORRICHTUNG FÜR EINEN MOTOR

Title (fr)  
DISPOSITIF DE REGULATION THERMIQUE POUR UN MOTEUR

Publication  
**EP 2329119 A1 20110608 (FR)**

Application  
**EP 09740404 A 20090729**

Priority

- FR 2009051520 W 20090729
- FR 0856216 A 20080916

Abstract (en)  
[origin: WO2010031934A1] The invention relates to a thermal regulation device (1) using the liquid (2) of an engine block (3) having an axis (AB) and including: a cylinder block (30), a cylinder head (31) with an oil manifold (310), and a sealing means (32) provided between the cylinder head (31) and the cylinder block (30), wherein the device (1) includes a liquid (2) circulation circuit (10) that comprises: a first housing (101) adapted for cooling the cylinder block (30), a second housing (102) adapted for cooling the cylinder head (31), and a pump (103). According to the invention, the second housing (102) includes: a lower chamber (1020) arranged axially in the cylinder head (31) and facing the cylinder block (30) between the manifold (310) and the sealing means (32), and an upper chamber (1021) arranged axially in the cylinder head (31) opposite the cylinder block (30) and surrounding the manifold (310).

IPC 8 full level  
**F01P 3/02** (2006.01); **F01P 3/12** (2006.01)

CPC (source: EP)  
**F01P 3/02** (2013.01); **F01P 3/12** (2013.01); **F01P 2003/028** (2013.01)

Citation (search report)  
See references of WO 2010031934A1

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)  
**FR 2936013 A1 20100319; FR 2936013 B1 20100910; EP 2329119 A1 20110608; WO 2010031934 A1 20100325**

DOCDB simple family (application)  
**FR 0856216 A 20080916; EP 09740404 A 20090729; FR 2009051520 W 20090729**