

Title (en)

COMBUSTION ENGINE LUBRICATION SYSTEM COMPRISING A VARIABLE-DISPLACEMENT OIL PUMP

Title (de)

BRENNKRAFTMASCHINE MIT EINEM SCHMIERSYSTEM MIT EINER VERSTELLÖLPUMPE

Title (fr)

SYSTEME DE LUBRIFICATION D'UN MOTEUR THERMIQUE, COMPRENANT UNE POMPE A HUILE A CYLINDREE VARIABLE

Publication

EP 2683921 A1 20140115 (FR)

Application

EP 12709918 A 20120216

Priority

- FR 1151971 A 20110310
- FR 2012050335 W 20120216

Abstract (en)

[origin: WO2012120213A1] Combustion engine lubrication system comprising an oil pump (6) that can achieve different deliveries controlled by a control means (20) comprising a map which, depending on the oil temperature and pressure, and on the engine speed, determines a target pressure and delivery for the pump in order to achieve this, this system also feeding oil to the engine piston cooling nozzles (26), characterized in that the supply circuit (24) for the nozzles (26) comprises a regulating valve (22) which opens when the pressure is above a threshold, and in that the map belonging to the control means (20) also takes engine load into account and if, on the basis of this load, the engine pistons need cooling, determines a target pressure higher than the threshold pressure of the valve (22) and makes a corresponding adjustment to the delivery of the pump (6).

IPC 8 full level

F01M 1/16 (2006.01); **F01M 1/08** (2006.01); **F01P 3/08** (2006.01); **F04C 14/22** (2006.01)

CPC (source: EP)

F01M 1/08 (2013.01); **F01M 1/16** (2013.01); **F01M 2001/0238** (2013.01); **F01M 2001/0246** (2013.01); **F01M 2001/083** (2013.01);
F04C 14/223 (2013.01)

Citation (search report)

See references of WO 2012120213A1

Designated contracting state (EPC)

AL 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 RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2012120213 A1 20120913; EP 2683921 A1 20140115; FR 2972488 A1 20120914; FR 2972488 B1 20130329

DOCDB simple family (application)

FR 2012050335 W 20120216; EP 12709918 A 20120216; FR 1151971 A 20110310