

Title (en)

METHOD AND DEVICE FOR CONTROLLING THE INITIAL OPENING OF A THERMOSTAT REGULATING THE TEMPERATURE OF AN INTERNAL COMBUSTION ENGINE

Title (de)

VERFAHREN UND VORRICHTUNG ZUR STEUERUNG DER ANFÄNGLICHEN ÖFFNUNG EINES THERMOSTATS ZUR REGULIERUNG DER TEMPERATUR EINES VERBRENNUNGSMOTORS

Title (fr)

PROCEDE ET DISPOSITIF DE CONTROLE DE LA PREMIERE OUVERTURE D'UN THERMOSTAT REGULANT LA TEMPERATURE D'UN MOTEUR A COMBUSTION INTERNE

Publication

EP 1974133 A2 20081001 (FR)

Application

EP 07718158 A 20070118

Priority

- FR 2007050662 W 20070118
- FR 0600486 A 20060119

Abstract (en)

[origin: WO2007083064A2] The invention concerns a device for controlling the opening of a cooling circuit control valve system of an internal combustion engine, containing a coolant, which is automatically opened under the effect of a cooling liquid being heated to a standard temperature. The invention is characterized in that it consists in performing an early controlled opening (230) of the control valve system of a cooling circuit located upstream of a heat exchanger before the temperature of the cooling liquid reaches a set temperature value for activating the opening of the control valve system which is itself lower than the standard temperature, said controlled opening being performed only when the control valve system is first opened.

IPC 8 full level

F01P 7/16 (2006.01)

CPC (source: EP US)

F01P 7/167 (2013.01 - EP US); **G05D 23/30** (2013.01 - EP US); **F01P 2025/32** (2013.01 - EP US); **F01P 2037/02** (2013.01 - EP US); **F01P 2070/04** (2013.01 - EP US)

Citation (search report)

See references of WO 2007083064A2

Citation (examination)

FR 2863661 A1 20050617 - VALEO THERMIQUE MOTEUR SA [FR]

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

FR 2896272 A1 20070720; FR 2896272 B1 20120817; CN 101809263 A 20100818; CN 101809263 B 20121121; EP 1974133 A2 20081001; JP 2009529110 A 20090813; JP 4999863 B2 20120815; RU 2008134002 A 20100227; RU 2411372 C2 20110210; US 2009301408 A1 20091210; US 8201524 B2 20120619; WO 2007083064 A2 20070726; WO 2007083064 A3 20100514

DOCDB simple family (application)

FR 0600486 A 20060119; CN 200780005951 A 20070118; EP 07718158 A 20070118; FR 2007050662 W 20070118; JP 2008550820 A 20070118; RU 2008134002 A 20070118; US 16159007 A 20070118