

Title (en)
THERMOSTAT FOR COOLING SYSTEM OF AN INTERNAL COMBUSTION ENGINE FOR VEHICLES

Title (de)
THERMOSTAT FÜR DAS KÜHLSYSTEM EINES VERBRENNUNGSMOTORS

Title (fr)
THERMOSTAT POUR UN CIRCUIT DE REFROIDISSEMENT DU MOTEUR À COMBUSTION INTERNE

Publication
EP 3444461 A1 20190220 (EN)

Application
EP 18188319 A 20180809

Priority
IT 201700094265 A 20170818

Abstract (en)
A thermostat (1) for cooling system of an internal combustion engine (100) comprises a sensitive element (4) comprising a capsule (40) that contains a sensitive material (5) that changes its volume when it reaches a threshold temperature, an actuation rod (8) associated to the sensitive element (5) and connected to a shutter (3) suitable for closing/opening a flow of coolant from the radiator (104) towards the engine (100) of the vehicle; and cooling means (R) coupled with the sensitive element (4) to cool the sensitive material (5), delaying the opening of the shutter (3) of the thermostat valve (2), in such a way as to stabilize the coolant at a temperature higher than the threshold temperature of the sensitive material.

IPC 8 full level
F01P 7/16 (2006.01)

CPC (source: EP)
F01P 7/167 (2013.01)

Citation (search report)

- [XA] EP 1111215 A1 20010627 - FORD GLOBAL TECH INC [US]
- [A] JP H0473473 A 19920309 - NIPPON DENSO CO
- [A] DE 102010018998 A1 20111103 - BAYERISCHE MOTOREN WERKE AG [DE]
- [A] US 2005006487 A1 20050113 - SUDA NORIO [JP], et al

Cited by
CN112664307A; CN109958521A

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3444461 A1 20190220; EP 3444461 B1 20200311

DOCDB simple family (application)
EP 18188319 A 20180809