

Title (en)
METHOD FOR REGULATING THE TEMPERATURE OF THE COOLANT OF AN INTERNAL COMBUSTION ENGINE USING AN ELECTRICALLY OPERATED COOLANT PUMP

Title (de)
VERFAHREN ZUR TEMPERATURREGELUNG DES KÜHLMITTELS EINES VERBRENNUNGSMOTORS MITTELS EINER ELEKTRISCH BETRIEBENEN KÜHLMITTELPUMPE

Title (fr)
PROCEDE DE REGULATION DE LA TEMPERATURE DE L'AGENT REFRIGERANT D'UN MOTEUR A COMBUSTION INTERNE A L'AIDE D'UNE POMPE DE FLUIDE REFRIGERANT A COMMANDE ELECTRIQUE

Publication
EP 1121516 A1 20010808 (DE)

Application
EP 00952940 A 20000721

Priority
• DE 0002373 W 20000721
• DE 19939138 A 19990818

Abstract (en)
[origin: DE19939138A1] The invention relates to a method for regulating the temperature of the coolant circuit of an internal combustion engine using an electrically operated coolant pump. According to said method, the speed of said pump regulates or controls the cooling capacity. An additional bypass line with appropriate thermostat valves ensures that considerable excesses of heat can be dissipated and that the combustion engine can be rapidly heated.

IPC 1-7
F01P 7/16

IPC 8 full level
F01P 7/04 (2006.01); **F01P 7/16** (2006.01); **F01P 5/12** (2006.01); **F01P 11/02** (2006.01)

CPC (source: EP US)
F01P 7/048 (2013.01 - EP US); **F01P 7/164** (2013.01 - EP US); **F01P 7/167** (2013.01 - EP US); **F01P 11/0204** (2013.01 - EP US); **F01P 11/0285** (2013.01 - EP US); **F01P 2005/125** (2013.01 - EP US); **F01P 2023/00** (2013.01 - EP US); **F01P 2023/08** (2013.01 - EP US); **F01P 2025/08** (2013.01 - EP US); **F01P 2025/13** (2013.01 - EP US); **F01P 2025/32** (2013.01 - EP US); **F01P 2025/62** (2013.01 - EP US); **F01P 2025/64** (2013.01 - EP US); **F01P 2031/22** (2013.01 - EP US); **F01P 2031/30** (2013.01 - EP US); **F01P 2037/02** (2013.01 - EP US)

Citation (search report)
See references of WO 0112964A1

Designated contracting state (EPC)
DE ES FR GB IT SE

DOCDB simple family (publication)
DE 19939138 A1 20010222; EP 1121516 A1 20010808; US 6662761 B1 20031216; WO 0112964 A1 20010222

DOCDB simple family (application)
DE 19939138 A 19990818; DE 0002373 W 20000721; EP 00952940 A 20000721; US 80779201 A 20010731