

Title (en)

COOLING DEVICE FOR AN INTERNAL-COMBUSTION ENGINE

Publication

EP 0128365 B1 19870701 (DE)

Application

EP 84105274 A 19840510

Priority

DE 3320338 A 19830604

Abstract (en)

[origin: US4537158A] Apparatus for cooling an internal combustion engine of a motor vehicle is provided having a thermostatic valve for controlling the coolant flow and having at least one fan associated with the radiator. The fan (or fans) can be operated in several output stages and the thermostatic valve can be adjusted to at least two different opening temperatures. When the thermostatic valve is adjusted to a higher opening temperature, operation of the fan in the output stage associated with a lower coolant temperature is blocked.

IPC 1-7

F01P 7/16

IPC 8 full level

F01P 7/08 (2006.01); **F01P 7/12** (2006.01); **F01P 7/16** (2006.01)

CPC (source: EP US)

F01P 7/08 (2013.01 - EP US); **F01P 7/167** (2013.01 - EP US); **F01P 2025/13** (2013.01 - EP US); **F01P 2025/40** (2013.01 - EP US); **F01P 2025/44** (2013.01 - EP US); **F01P 2025/50** (2013.01 - EP US); **F01P 2025/62** (2013.01 - EP US); **F01P 2025/64** (2013.01 - EP US)

Cited by

DE3934201A1; DE19500648A1; US5617816A; DE19500648B4

Designated contracting state (EPC)

BE DE FR GB IT LU NL SE

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EP 0128365 A2 19841219; **EP 0128365 A3 19850731**; **EP 0128365 B1 19870701**; **EP 0128365 B2 19910213**; DE 3320338 A1 19841206; DE 3464516 D1 19870806; JP H0567768 B2 19930927; JP S603425 A 19850109; US 4537158 A 19850827

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