

Title (en)

Mechanical coolant pump for cooling an internal combustion engine

Title (de)

Mechanische Kühlmittelpumpe zum Kühlen eines Verbrennungsmotors

Title (fr)

Pompe de refroidissement mécanique pour refroidir un moteur à combustion interne

Publication

EP 2299120 B1 20170419 (EN)

Application

EP 09170214 A 20090914

Priority

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Abstract (en)

[origin: EP2299120A1] The invention refers to a switchable mechanical coolant pump (10) for cooling an internal combustion engine (12). The coolant pump (10) is provided with a rotatable drive wheel (24) driven by the engine (12), a pump wheel (30) being directly connected with the drive wheel (24), the pump wheel (30) comprising a wheel disk (34) and pump blades (32) projecting axially from the wheel disk (34), a separate control disk (40) being axially movable and being provided with blade slits (44), the control disk (40) being provided at the pump wheel (30) so that the pump blades (32) are received in the blade slits (44), so that the blade height of the pump blades (32) between the wheel disk (34) and the control disk (40) is axially adjustable by axially shifting the control disk (40), and an actuation element (46; 70) for actuating the control disk (40).

IPC 8 full level

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CPC (source: EP)

F04D 15/0038 (2013.01)

Cited by

CN103470359A; AT517163B1; CN108119391A; CN115263763A; WO2016179619A1

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