Title (en)

COOLANT PUMP FOR AN INTERNAL COMBUSTION ENGINE

Title (de)

KÜHLMITTELPUMPE FÜR EINE VERBRENNUNGSKRAFTMASCHINE

Title (fr)

POMPE À LIQUIDE DE REFROIDISSEMENT POUR UN MOTEUR À COMBUSTION INTERNE

Publication

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Application

EP 16785430 A 20161019

Priority

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- EP 2016075079 W 20161019

Abstract (en)

[origin: WO2017076647A1] Coolant pumps for internal combustion engines are known, comprising a drive shaft (18), a coolant pump impeller (20) which is rigidly arranged on the drive shaft (18) at least in a rotationally fixed manner and by means of which coolant can be pumped, and an adjustable control slide (58), by means of which a flow cross-section of an annular gap (62) between an outlet (64) of the coolant pump impeller (20) and the surrounding pump channel (12) can be regulated. In order to achieve a secure seal of the two opposing pressure chambers (92, 94) in particular during a purely hydraulic adjustment, the control slide (58) has an inner hollow cylindrical circumferential wall (84), on the radial inner face of which a radial groove (86) is formed, a seal ring (88) being arranged in said radial groove, and the control slide also has an outer hollow cylindrical circumferential wall (60), on the radial outer face of which a radial groove is formed (74), a seal ring (76) being arranged in said radial groove. The two circumferential walls (60, 84) are connected together via a base (80).

IPC 8 full level

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CPC (source: EP)

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