

Title (en)
HEAT EXCHANGER FOR AN INTERNAL COMBUSTION ENGINE

Title (de)
WÄRMETAUSCHER FÜR EINE VERBRENNUNGSKRAFTMASCHINE

Title (fr)
ÉCHANGEUR DE CHALEUR POUR MACHINE À COMBUSTION INTERNE

Publication
EP 2929272 A1 20151014 (DE)

Application
EP 13792638 A 20131112

Priority

- DE 102012111928 A 20121207
- EP 2013073623 W 20131112

Abstract (en)
[origin: WO2014086558A1] Heat exchangers for internal combustion engines, with a channel (14) through which a fluid to be cooled can flow, a coolant channel (16), and a separating wall (10) that separates the coolant channel (14) from the channel (16) through which the fluid to be cooled can flow, wherein knobs (50) are formed on a surface of the separating wall (10) facing the coolant channel (16), are known. In order to increase the cooling power of such a heat exchanger, according to the invention zones (56) having knobs (50) and zones (54) having a smooth surface are formed on the separating wall (10) in the coolant channel (16), the two zones (54, 56) being arranged relative to one another in such a manner that zones (54, 56) with different flow resistance are produced. This produces a distribution and guidance of the coolant with an increased heat exchanging surface, which leads to an increase of the radiator efficiency.

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