

Title (en)

HEAT EXCHANGER, PARTICULARLY FOR A MOTOR VEHICLE

Title (de)

WÄRMETAUSCHER, INSBESONDERE FÜR EIN KRAFTFAHRZEUG

Title (fr)

ECHANGEUR THERMIQUE NOTAMMENT POUR VEHICULE AUTOMOBILE

Publication

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Application

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Abstract (en)

[origin: WO2013001011A1] The invention relates to a heat exchanger for exchanging heat between a first and a second fluid, including: a heat-exchange bundle (3), including first channels for circulating the first fluid and second channels for circulating the second fluid; an inlet manifold (5) and an outlet manifold (7) for the first fluid, into which the ends of said first channels lead; and an inlet pipe (9) and an outlet pipe (11) for the second fluid. Said inlet (5) and outlet (7) manifolds for the first fluid are attached to a first surface (2c) of said bundle (3) and are separated by a partition (13), and said exchanger further comprises an intermediate manifold (21) communicating with said first channels for circulating the first fluid along a U-shaped path in said first channels. Said exchanger comprises at least one wall (33) attached to a second surface (3e) of said bundle (3) that is contiguous with said first surface (3c), and said inlet (9) and outlet (11) pipes for the second fluid are arranged on one end of said wall (33), separately from one another, and said exchanger comprises an intermediate compartment (39) communicating with said second channels for circulating the second fluid along a U-shaped path in said second channels. According to the invention, said intermediate manifold (21) and said intermediate compartment (39) are arranged on surfaces (3d, 3e) of said bundle (3) that are mutually perpendicular.

IPC 8 full level

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