

Title (en)

HEAT EXCHANGER, ESPECIALLY A CHARGE-AIR COOLER FOR MOTOR VEHICLES

Title (de)

WÄRMEÜBERTRAGER, INSBESONDERE LADELÜFTKÜHLER FÜR KRAFTFAHRZEUGE

Title (fr)

ECHANGEUR THERMIQUE, EN PARTICULIER REFROIDISSEUR D'AIR DE SURALIMENTATION POUR VEHICULES AUTOMOBILES

Publication

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Application

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Abstract (en)

[origin: WO2004090454A1] The invention relates to a heat exchanger, especially a charge-air cooler for motor vehicles, comprising flat tubes (9) with tube ends (9a), and collecting tanks (1) which are connected to tube plates (4), said tube plates (4) comprising openings (8) provided with long sides (8a) and short sides (8b) for receiving the tube ends (9a), in addition to edge strips (5, 6) and transition regions (12, 13) which are embodied in a groove-type manner and located between the short sides (8b) and the edge strips (5, 6), the tube ends (9a) being soldered in the openings (8). According to the invention, the transition regions (12, 13) comprise a reinforcing element.

IPC 8 full level

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