

Title (en)

HEAT EXCHANGER WITH REDUCED SPACE REQUIREMENT, IN PARTICULAR FOR MOTOR VEHICLE

Title (de)

RAUMSPARENDER WÄRMETAUSCHER, INSBESONDERE FÜR KRAFTFAHRZEUG

Title (fr)

ENCHANGEUR DE CHALEUR D'ENCOMBREMENT REDUIT, EN PARTICULIER POUR VEHICULE AUTOMOBILE

Publication

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Application

**EP 99946234 A 19990924**

Priority

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Abstract (en)

[origin: FR2783907A1] The invention concerns a heat exchanger, in particular for a motor vehicle, comprising an array (10) of tubes (12) and fins (14), whereof the ends (16) of the tubes (16) are inserted in holes (22) of a collector plate (18). The latter is generally planar and an inserting plate (46) is arranged, directly mounted on the collector plate (18) and provided with openings (48) for allowing through the ends (16) of the tubes (12) and delimited by a peripheral edge (52) forming a lateral stop for a rim (42) of a manifold (40) maintained by crimping means (26).

IPC 1-7

**F28F 9/02**

IPC 8 full level

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Cited by

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