

Title (en)

Heat exchanger with tubes of oblong cross-section, especially for motor vehicles.

Title (de)

Wärmetauscher mit Röhren mit länglichem Querschnitt, insbesondere für Kraftfahrzeuge.

Title (fr)

Echangeur de chaleur à tubes de section oblongue, en particulier pour véhicules automobiles.

Publication

**EP 0567410 A1 19931027 (FR)**

Application

**EP 93401066 A 19930423**

Priority

FR 9205111 A 19920424

Abstract (en)

The invention relates to a heat exchanger comprising a multiplicity of tubes (12) of oblong cross-section. The tubes (12) include end segments (14) engaged in corresponding holes (20) made in a manifold plate (22), with interposition of a sealing gasket (32), one portion (36) of which is compressed between the end segment (14) and a surface (30) of the corresponding hole (14), each end segment having a wall (42) reinforced by a peripheral lip (38) of the wall, which is situated at a distance from a free edge (40) of the said end segment. Application in particular to cooling radiators for motor vehicle engines. <IMAGE>

IPC 1-7

**F28F 9/04**

IPC 8 full level

**F28F 9/16** (2006.01)

CPC (source: EP US)

**F28F 9/165** (2013.01 - EP US)

Citation (search report)

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Designated contracting state (EPC)

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DOCDB simple family (publication)

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