

Title (en)

Heat exchanger with several rows of tubes, more particularly for motor vehicle.

Title (de)

Wärmetauscher mit mehreren Rohrreihen, insbesondere für Kraftfahrzeuge.

Title (fr)

Echangeur de chaleur à plusieurs rangées de tubes, en particulier pour véhicule automobile.

Publication

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Application

EP 92400666 A 19920313

Priority

FR 9103411 A 19910320

Abstract (en)

[origin: EP0505243A1] The heat exchanger of the invention comprises a bundle of parallel tubes (94) arranged in rows and the respective ends (92) of which are received in a collector plate (70) provided with holes (84) which are possibly bordered by flanges (86). According to the invention, each hole (84) of the collector plate (70) receives the respective ends (92) of several adjacent tubes (94) belonging to different rows of the bundle. The pitch (P) bounded by two tubes belonging to two adjacent rows may thus be brought to a minimum value so as to optimise the performance of the heat exchanger, for the smallest possible width of the collector plate. <IMAGE>

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IPC 8 full level

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CPC (source: EP US)

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Cited by

FR2786558A1; FR2711236A1; EP0593360A1; FR2696809A1; US5363911A; EP0590945A1; US6810951B1; WO0033008A1; EP0779489B2

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