

Title (en)

Heat exchanger with flat finned tubes, more particularly radiator, cooler, condenser or evaporator for automotive vehicle

Title (de)

Wärmetauscher mit verrippten Flachrohren, insbesondere Heizungswärmetauscher, Motorkühler, Verflüssiger oder Verdampfer, für Kraftfahrzeuge

Title (fr)

Echangeur de chaleur avec tubes plats ailetés, en particulier radiateur, refroidisseur, condenseur ou évaporateur pour véhicule automobile

Publication

EP 0964218 B1 20040107 (DE)

Application

EP 99109324 A 19990528

Priority

DE 19825561 A 19980608

Abstract (en)

[origin: EP0964218A2] The vehicle heat exchanger assembly has ribbed flat tubes (2) with collectors (8a,8b) connected to the tube interiors, with one collector at each end of the tubes. The flat tubes (2) alternate, singly or in groups, with one end at a collector (8a), and the other end at the other collector (8b), using different heat exchange fluids. Each collector (8a,8b) has an inflow (30) and a backflow (32) for each of the fluids. The ends of the flat tubes (2), away from the collectors (8a,8b), have a U-shaped flow deflection (22).

IPC 1-7

F28D 1/03; **F28D 1/053**

IPC 8 full level

F24H 3/08 (2006.01); **F28D 1/03** (2006.01); **F28D 1/04** (2006.01); **F28D 1/053** (2006.01); **F28F 9/02** (2006.01)

CPC (source: EP US)

F24H 1/009 (2013.01 - EP US); **F24H 3/0429** (2013.01 - EP US); **F24H 3/0435** (2013.01 - EP US); **F24H 3/081** (2013.01 - EP US); **F24H 3/085** (2013.01 - EP US); **F24H 9/1872** (2013.01 - EP US); **F28D 1/035** (2013.01 - EP US); **F28D 1/0391** (2013.01 - EP US); **F28D 1/0426** (2013.01 - EP US); **F28F 9/0202** (2013.01 - EP US); **F28F 9/0212** (2013.01 - EP US); **F28F 9/0224** (2013.01 - EP); **F28F 9/0263** (2013.01 - EP US)

Cited by

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DOCDB simple family (publication)

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