

Title (en)  
Heat exchange module, more particularly for automotive vehicle

Title (de)  
Wärmeaustauschmodul, insbesondere für Kraftfahrzeug

Title (fr)  
Module d'échange de chaleur, notamment pour véhicule automobile

Publication  
**EP 1128149 B1 20050323 (FR)**

Application  
**EP 01104627 A 20010223**

Priority  
FR 0002453 A 20000228

Abstract (en)  
[origin: KR20010085507A] PURPOSE: A heat-exchange module is provided which comprises a main exchanger and at least one secondary exchanger each including a generally flat body equipped with fluid-circulation tubes, and moreover comprises cooling fins, the secondary exchanger being fixed onto the main exchanger in such a way that the same airflow passes over the respective bodies of the exchangers. CONSTITUTION: A heat-exchange module has a main exchanger(1) and at least one secondary exchanger(12), each having a body with fluid-circulation tubes, and cooling fins, the secondary exchanger being fixed onto the main exchanger. The module includes a set of fins common to the main exchanger and to at least one secondary exchanger, these fins being mounted on the tubes of the main exchanger and projecting from this exchanger, the projecting parts of the fins including cut-outs for accommodating the tubes of the secondary exchanger. Fastenings secure the secondary exchanger in the position in which its tubes are engaged in the cut-outs.

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**F28D 1/04**; **F28F 1/32**

IPC 8 full level  
**F28F 1/10** (2006.01); **F28D 1/04** (2006.01); **F28D 1/053** (2006.01); **F28F 1/32** (2006.01); **F28F 9/26** (2006.01)

CPC (source: EP KR US)  
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**F28D 2021/0094** (2013.01 - EP US); **F28F 2009/004** (2013.01 - EP US); **F28F 2215/02** (2013.01 - EP US); **F28F 2215/12** (2013.01 - EP US)

Cited by  
FR2856783A1; FR2832789A1; FR2849173A1; FR2832214A1; EP1892492A3; WO03046458A1; WO2004102103A3; WO03042619A1;  
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