

Title (en)  
Heat exchange device

Title (de)  
Wärmeübertragereinrichtung

Title (fr)  
Appareil d'échange de chaleur

Publication  
**EP 1818643 B1 20130724 (DE)**

Application  
**EP 06024482 A 20061125**

Priority  
DE 102005062297 A 20051224

Abstract (en)  
[origin: US2007144803A1] A heat exchanger device, in particular a cross-flow cooler for a motor vehicle, is disposed between two vehicle side rails. The heat exchanger device includes a heat-exchange zone, in particular a cooler/fin network, and at least two collecting/distributor tanks disposed to the side of the heat-exchange zone and extend substantially vertically. In order to utilize a construction space between the vehicle side rails as efficiently as possible, the collecting/distributor tanks have externally, in the region of the vehicle side rails, a respective recess configured complementary to the side rails.

IPC 8 full level  
**F28F 9/00** (2006.01); **F28D 1/053** (2006.01)

CPC (source: EP US)  
**F28D 1/05325** (2013.01 - EP US); **F28F 9/002** (2013.01 - EP US); **F28F 9/0209** (2013.01 - EP US); **F28F 9/262** (2013.01 - EP US); **F28D 2001/0266** (2013.01 - EP US); **F28D 2021/0094** (2013.01 - EP US)

Cited by  
GB2450244A; GB2450244B

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**US 2007144803 A1 20070628**; DE 102005062297 A1 20070705; EP 1818643 A2 20070815; EP 1818643 A3 20080723; EP 1818643 B1 20130724; JP 2007168770 A 20070705

DOCDB simple family (application)  
**US 64583406 A 20061226**; DE 102005062297 A 20051224; EP 06024482 A 20061125; JP 2006335647 A 20061213