

Title (en)  
A motor vehicle heat exchanger

Title (de)  
Wärmetauscher für Kraftwagen

Title (fr)  
Echangeur de chaleur pour véhicule automobile

Publication  
**EP 1626240 A2 20060215 (EN)**

Application  
**EP 05016252 A 20050727**

Priority  
PL 36948704 A 20040809

Abstract (en)  
The invention relates to a motor vehicle heat exchanger (1) comprising a cooling core (4) and two header tanks fluidly connected with the core. The cooling core comprises a plurality of rectangular plates (5) provided with an array of equidistantly spaced stamped collars (6) and inclined louvers (7) between them, where each collar (6) is formed of a base cylindrical portion and a conical portion provided with a circumferential bead at the end thereof. The face (13) of the first header tank (2) is provided with stamped projections (14) and the face (15) of the second header tank (3) is provided with stamped openings (16) corresponding to the collars (6). The plates (5) are stacked on one another, so as the conical portions of the collars (6) of each plate are inserted into cylindrical base portions of the collars (6) of the surrounding plate (5) and each group of stacked collars (6) forms a flow duct for a fluid medium.

IPC 8 full level  
**F28F 1/28** (2006.01); **F28D 1/053** (2006.01)

CPC (source: EP)  
**F28D 1/05383** (2013.01); **F28F 1/28** (2013.01); **F28F 1/325** (2013.01)

Cited by  
JP2016223648A; EP1887304A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR MK YU

DOCDB simple family (publication)  
**EP 1626240 A2 20060215**; **EP 1626240 A3 20110928**; PL 369487 A1 20060220

DOCDB simple family (application)  
**EP 05016252 A 20050727**; PL 36948704 A 20040809