

Title (en)  
Heat exchange assembly for vehicles

Title (de)  
Wärmetauscheranordnung für Kraftfahrzeuge

Title (fr)  
Ensemble échangeur de chaleur pour des véhicules

Publication  
**EP 1726469 A1 20061129 (EN)**

Application  
**EP 05425375 A 20050527**

Priority  
EP 05425375 A 20050527

Abstract (en)  
A heat exchange assembly for vehicles, comprising: - a radiator (12) comprising a pair of mutually parallel collecting tanks (16, 18) made of plastic material and a tube and fin heat exchange pack (20) with the tubes arranged orthogonally relative to the collecting tanks (16, 18), - a condenser (14) comprising a pair of mutually parallel tubular distributors (22, 24) and a tube and fin heat exchange pack (26) with the tubes arranged orthogonally relative to the distributors (22, 24), and - first engagement formations (28, 30, 54) obtained integrally on the collecting tanks (16, 18) by injection moulding, and - second engagement formations (44, 46, 56) formed by metal flanges fastened to the condenser (14) by braze welding, the first and the second engagement formations (28, 30, 54, 44, 46, 56) co-operating with each other in mutual insertion relationship to define a condition of fastening as a result of a relative motion of the condenser (14) and of the radiator (12) in a direction parallel to the tubes (50, 60).

IPC 8 full level  
**B60K 11/04** (2006.01); **F28F 9/00** (2006.01)

CPC (source: EP)  
**F28D 1/0443** (2013.01); **F28F 9/002** (2013.01); **F28F 2009/0287** (2013.01); **F28F 2255/143** (2013.01)

Citation (search report)  
• [Y] WO 2005038379 A1 20050428 - BEHR GMBH & CO KG [DE], et al  
• [Y] US 2001013405 A1 20010816 - MANGOLD RAINER [DE]  
• [A] US 6158500 A 20001212 - HEINE REINHARD [DE]  
• [A] EP 1253394 A2 20021030 - DELPHI TECH INC [US]  
• [A] US 6059019 A 20000509 - BROST VIKTOR [DE], et al  
• [A] FR 2808870 A1 20011116 - ECIA EQUIP COMPOSANTS IND AUTO [FR]

Cited by  
DE102012202584A1; FR2948754A1; FR3050518A1; JP2019507308A; US10619931B2

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 MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR LV MK YU

DOCDB simple family (publication)  
**EP 1726469 A1 20061129; EP 1726469 B1 20080806**; AT E403567 T1 20080815; BR PI0602108 A 20070213; CN 1891519 A 20070110; CN 1891519 B 20100929; DE 602005008723 D1 20080918

DOCDB simple family (application)  
**EP 05425375 A 20050527**; AT 05425375 T 20050527; BR PI0602108 A 20060525; CN 200610087815 A 20060526; DE 602005008723 T 20050527