

Title (en)
VEHICLE INTERIOR HEAT EXCHANGER

Title (de)
FAHRZEUGINNENRAUM-WÄRMETAUSCHER

Title (fr)
ÉCHANGEUR DE CHALEUR D'INTÉRIEUR DE VÉHICULE

Publication
EP 2565571 A4 20140924 (EN)

Application
EP 11774831 A 20110415

Priority
• JP 2010102876 A 20100428
• JP 2011059399 W 20110415

Abstract (en)
[origin: EP2565571A1] The thermal efficiency of a heat exchanger which is disposed on a blowing path in a vehicle interior and operates as a condenser is enhanced. In a vehicle interior heat exchanger 1 which functions as a condenser, a pair of tube groups 13A and 13B have a plurality of stacked cooling medium circulation tubes 11 and are arranged side by side in a blowing direction so as to face each other, on one end side in an axial direction of the cooling medium circulation tubes 11, an inlet side header tank 14A which has a cooling medium inlet tube 14a and to which each of the cooling medium circulation tubes 11 of the tube group 13A on one side is connected for communication and an outlet side header tank 14B which has a cooling medium outlet tube 14b and to which each of the cooling medium circulation tubes 11 of the tube group 13B on the other side is connected for communication are arranged separately and with a space therebetween, and on the other end side in the axial direction of the cooling medium circulation tubes 11, a single intermediate header tank 15 to which each of the cooling medium circulation tubes 11 of the pair of tube groups 13A and 13B is connected for communication is disposed.

IPC 8 full level
B60H 1/22 (2006.01); **B60H 1/32** (2006.01); **F25B 39/00** (2006.01); **F25B 39/04** (2006.01); **F28D 1/053** (2006.01); **F28D 21/00** (2006.01); **F28F 9/02** (2006.01)

CPC (source: EP US)
F25B 39/04 (2013.01 - EP US); **F28D 1/05391** (2013.01 - EP US); **F28D 2021/0084** (2013.01 - EP US)

Citation (search report)
• [XY] WO 2006073136 A1 20060713 - VALEO THERMAL SYS JAPAN CO [JP], et al
• [X] EP 1762808 A1 20070314 - VALEO SYSTEMES THERMIQUES [FR]
• [X] US 2005205244 A1 20050922 - KASPAR MARTIN [DE]
• [X] EP 1452814 A1 20040901 - ZEXEL VALEO CLIMATE CONTR CORP [JP]
• [Y] JP 2008304109 A 20081218 - CALSONIC KANSEI CORP
• See references of WO 2011136047A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 2565571 A1 20130306; **EP 2565571 A4 20140924**; CN 102869942 A 20130109; JP 2011230655 A 20111117; US 2013048260 A1 20130228; WO 2011136047 A1 20111103

DOCDB simple family (application)
EP 11774831 A 20110415; CN 201180021328 A 20110415; JP 2010102876 A 20100428; JP 2011059399 W 20110415; US 201113695612 A 20110415