

Title (en)
Heat exchange device

Title (de)
Vorrichtung zum Austausch von Wärme

Title (fr)
Dispositif d'échange de chaleur

Publication
EP 1340637 B1 20090812 (DE)

Application
EP 03002749 A 20030206

Priority
DE 10208152 A 20020226

Abstract (en)
[origin: EP1340637A2] The device has a first connection material at least in a region in which at least two components of a first heat exchange unit are close or in contact that fixes the arrangement of these components relative to each other. The material is chose to have a temperature-dependent property identical to at least one of the component materials. AN Independent claim is also included for the following: an arrangement for cooling or heating air, especially for a motor vehicle.

IPC 8 full level
B60H 1/22 (2006.01); **F24H 3/04** (2006.01)

CPC (source: EP)
F24H 3/0405 (2013.01); **F24H 3/0429** (2013.01); **F24H 3/0435** (2013.01); **F24H 3/047** (2013.01); **F24H 3/0476** (2013.01); **F24H 9/1872** (2013.01)

Citation (examination)
• K.-H. DECKER: "Maschinenelemente, Gestaltung und Berechnung, Seiten 89-91, Berechnung von Lötverbindungen", 1982, CARL HANSER VERLAG
• K.-H. DECKER: "Maschinenelemente, Gestaltung und Berechnung, Tabellenanhang, Tabelle A6.1", 1982, CARL HANSER VERLAG

Cited by
EP2083607A1; EP2865962A1; FR3134675A1; WO2023198852A1; US9296276B2

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

DOCDB simple family (publication)
EP 1340637 A2 20030903; EP 1340637 A3 20050309; EP 1340637 B1 20090812; AT E439270 T1 20090815; DE 10208152 A1 20030904; DE 50311790 D1 20090924

DOCDB simple family (application)
EP 03002749 A 20030206; AT 03002749 T 20030206; DE 10208152 A 20020226; DE 50311790 T 20030206