

Title (en)

Flat tube circuit element, and heat exchanger with such an element

Title (de)

Kreislaufelement mit Flachrohren und Wärmetauscher mit demselben

Title (fr)

Élément de circuit à tubes plats, et échangeur de chaleur muni de tels éléments de circuit

Publication

EP 1762808 A1 20070314 (FR)

Application

EP 06018944 A 20060911

Priority

FR 0509351 A 20050913

Abstract (en)

The circuit, made from two flat tubes (20, 22) for exchanging heat between first and second fluids, has the tubes made with overlapping end sections (200, 220), and lengthwise main sections (203, 223) positioned side by side. The end and main sections lie in the same planes and are joined by connecting sections (201, 221). Both tubes have a constant crosssection and internal partitions forming lengthwise flow channels, and a motor vehicle heat exchanger contains a series of the flat tubes in pairs between manifolds.

IPC 8 full level

F28F 1/04 (2006.01)

CPC (source: EP)

F28D 1/0471 (2013.01); **F28F 1/025** (2013.01); **F28F 1/045** (2013.01)

Citation (search report)

- [A] FR 2700610 A1 19940722 - VALEO THERMIQUE MOTEUR SA [FR]
- [A] WO 2005071340 A1 20050804 - ZEXEL VALEO CLIMATE CONTR CORP [JP], et al
- [A] EP 1452814 A1 20040901 - ZEXEL VALEO CLIMATE CONTR CORP [JP]
- [A] US 4546824 A 19851015 - MELNYK WILLIAM [US]

Cited by

US2022221226A1; EP3396274A4; CN114576884A; EP2565571A4; JP2020165569A; KR20180077188A; JP2018532093A; US2018340746A1; EP3370019A4; US10612856B2; DE102022200916A1

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)

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