

Title (en)

Plate heat exchanger, especially for cooling oil of motor vehicles

Title (de)

Plattenwärmetauscher, insbesondere zum Kühlen von Kraftfahrzeugöl

Title (fr)

Echangeur de chaleur à plaques, en particulier pour le refroidissement d'une huile de véhicule automobile

Publication

EP 1063487 A1 20001227 (FR)

Application

EP 00401419 A 20000523

Priority

FR 9907833 A 19990621

Abstract (en)

Heat exchanger comprises multiplicity of stacked plates (10) each with raised peripheral edge (14). Peripheral edges are assembled in sealed manner so as to delimit between plates first (24) and second (26) flow channels for alternating first and second fluids. Raised peripheral edges are plane and form with stacking direction (D) acute angle (α) greater than or equal to 10 degrees .

IPC 1-7

F28D 9/00

IPC 8 full level

F01M 5/00 (2006.01); **F28D 9/00** (2006.01); **F28D 9/02** (2006.01)

CPC (source: EP)

F28D 9/005 (2013.01); **F28D 2021/0089** (2013.01)

Citation (search report)

- [PX] DE 19750748 A1 19990715 - BEHR GMBH & CO [DE]
- [A] DE 19711258 A1 19980924 - BEHR GMBH & CO [DE]
- [A] DE 19517174 C1 19960605 - LAENGERER & REICH GMBH & CO [DE]

Cited by

FR2850740A1; US7426957B2; CN110418932A; EP4343253A1; WO2013120817A3; WO2024061818A1

Designated contracting state (EPC)

DE ES GB IT

DOCDB simple family (publication)

EP 1063487 A1 20001227; **EP 1063487 B1 20030806**; DE 60004295 D1 20030911; DE 60004295 T2 20040609; ES 2207471 T3 20040601; FR 2795166 A1 20001222; FR 2795166 B1 20010907; JP 2001050673 A 20010223; MX PA00006139 A 20030924

DOCDB simple family (application)

EP 00401419 A 20000523; DE 60004295 T 20000523; ES 00401419 T 20000523; FR 9907833 A 19990621; JP 2000184141 A 20000620; MX PA00006139 A 20000620