

Title (en)
Plate heat exchanger, especially oil cooler for motor vehicles

Title (de)
Plattenwärmetauscher, insbesondere Ölkippler für Kraftfahrzeuge

Title (fr)
Echangeur de chaleur à plaques, en particulier refroidisseur d'huile pour véhicule automobile

Publication
EP 1063486 B1 20051116 (FR)

Application
EP 00401418 A 20000523

Priority
FR 9907830 A 19990621

Abstract (en)
[origin: EP1063486A1] Heat exchanger comprises first (10) and second (12) stacked plates placed alternately. Plates have bottoms (14,20) and undulations (18,24) extending in perpendicular directions so as to delimit between plates first (34) and second (36) flow channels for first and second fluids. Channel has hydraulic diameter (Dh) defined by Dh = 2 h where h represents half height of channel and value of hydraulic diameter is between 1 and 3 mm.

IPC 1-7
F28D 9/00; F28F 3/04

IPC 8 full level
F01M 5/00 (2006.01); **F01P 11/08** (2006.01); **F28D 9/00** (2006.01); **F28D 9/02** (2006.01); **F28F 3/04** (2006.01); **F28F 3/08** (2006.01)

CPC (source: EP)
F28D 9/005 (2013.01); **F28F 3/046** (2013.01); **F28D 2021/0089** (2013.01)

Cited by
FR2850740A1; FR2846733A1; FR2943774A1; EP2057424A4; US9273911B2; FR2846734A1; WO2007036963A1; WO2004042293A1; WO2005088223A1; WO2010108907A1; EP1711768A1; US7469554B2; FR2846736A1; US8122736B2

Designated contracting state (EPC)
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DOCDB simple family (publication)
EP 1063486 A1 20001227; EP 1063486 B1 20051116; DE 60023992 D1 20051222; DE 60023992 T2 20060727; FR 2795165 A1 20001222; FR 2795165 B1 20010907; JP 2001056192 A 20010227

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