

Title (en)
HEAT EXCHANGER FOR COMBUSTION ENGINES

Publication
EP 0236859 A3 19871216 (DE)

Application
EP 87102693 A 19870225

Priority
DE 3608232 A 19860312

Abstract (en)
[origin: EP0236859A2] The heat exchanger is built up of individual trays and has an inlet (2) and outlet (3) on one side in adjacent configuration. Each is connected to a plenum chamber (4a,4b), with the chambers interconnected by tubes (8) with cooling fins (10). The chambers are on the opposite outer sides of the exchanger. Pref. there is a passage (7) between one of them and the inlet or outlet, formed by a separate tray (16) incorporated in the exchanger without a weld seam.

IPC 1-7
F28F 3/08; F28D 1/03

IPC 8 full level
F28D 1/03 (2006.01); **F28F 3/08** (2006.01)

CPC (source: EP)
F28D 1/0333 (2013.01)

Citation (search report)
• [AD] DE 2855285 A1 19800703 - KLOECKNER HUMBOLDT DEUTZ AG
• [A] FR 2010517 A1 19700220 - DELANEY GALLAY LTD
• [AP] DE 3536325 A1 19860507 - SHOWA ALUMINIUM CO LTD [JP]

Cited by
US6408940B1; FR2747462A1; US5369883A; US5538077A

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
EP 0236859 A2 19870916; EP 0236859 A3 19871216; EP 0236859 B1 19881130; DE 3608232 A1 19870917; DE 3760017 D1 19890105

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