

Title (en)
HEAT EXCHANGER SYSTEM

Title (de)
WÄRMETAUSCHER

Title (fr)
SYSTEME ECHANGEUR DE CHALEUR

Publication
EP 1384038 A1 20040128 (EN)

Application
EP 02720306 A 20020503

Priority
• GB 0202058 W 20020503
• GB 0111153 A 20010504

Abstract (en)
[origin: GB2409511A] A heat exchanger comprises a bank of tubes, a plurality of fin strips having spanning portions 2 spacing the tubes, a plurality of slots 4a, 4b for receiving the tubes, and one or more tabs 9 at the edges of the slots 4a, 4b spacing the fin strips. The bank of tubes and fin strips may be fused together in an aluminium brazing process to form a unitary heat exchanger unit. The slots 4a, 4b may intersect an edge of the fin strip. The tabs 9 may have a seat portion 8 so that adjacent fin strip may rest on one another. The heat exchanger may comprise a first or second bank of tubes (figs 8a - 10) disposed side by side so that the tubes in each bank may be in line or offset with one another. The fin strips may have one or more zones of reduced thermal conductivity inhibiting heat transfer, i.e. apertures (11, figs 9 - 10) or a gauge reduction portion intermediate the slots 4a, 4b. The first and second banks of tubes may each communicate with a pair of headers so that one bank of tubes communicates a refrigerant and the other bank of tubes communicates an engine coolant.

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F28F 1/32

IPC 8 full level
F28F 1/32 (2006.01)

CPC (source: EP)
F28F 1/325 (2013.01); **F28F 2215/12** (2013.01)

Citation (search report)
See references of WO 02090856A1

Citation (examination)
US 3771595 A 19731113 - SLAASTED R

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