

Title (en)

Stacked type multi-flow heat exchanger

Title (de)

Mehrstromwärmetauscher in Stapelbauweise

Title (fr)

Echangeur de chaleur du type empilé à passage multiple

Publication

EP 0995961 A3 20000726 (EN)

Application

EP 99308314 A 19991021

Priority

- JP 30282598 A 19981023
- JP 2603099 A 19990203

Abstract (en)

[origin: EP0995961A2] A stacked type multi-flow heat exchanger (1) includes a plurality of heat transfer tubes (2) and fins (3) stacked alternately, and upper front (31a) and an upper rear tank (31b), a lower front (32a) and a lower rear tank (32b). The heat exchanger (1) includes partitions (33,34) provided at the lower front and rear tanks (32a,b), respectively, and a communication path (36) communicating between the same side ends of the lower front and rear tanks (32a,b). A communication header (38) forming the communication path (36) is formed integrally with the outermost heat transfer tube (2b). Liquid refrigerant flows at a greater amount through the central portion of the heat exchanger core (1a), whereas high temperature refrigerant flows through the edge portions of the heat exchanger core (1a). A uniform temperature distribution of air having passed through the heat exchanger (1) may be achieved.

IPC 1-7

F28D 1/03

IPC 8 full level

F28D 1/03 (2006.01)

CPC (source: EP)

F28D 1/0333 (2013.01)

Citation (search report)

- [DA] EP 0769665 A2 19970423 - DENSO CORP [JP]
- [A] DE 19814051 A1 19981001 - ZEXEL CORP [JP]
- [A] US 4621685 A 19861111 - NOZAWA KAZUO [JP]
- [A] FR 2248482 A1 19750516 - EQUIP AUTOMOBILE CIE FSE [FR]

Cited by

DE10123347B4; EP1327845A1; EP2472207A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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