

Title (en)

HEAT EXCHANGER FOR AN EVAPORATOR, ESPECIALLY FOR AIR CONDITIONING SYSTEMS

Publication

**EP 0029859 B1 19830601 (DE)**

Application

**EP 79104746 A 19791129**

Priority

EP 79104746 A 19791129

Abstract (en)

[origin: EP0029859A1] 1. A heat exchanger for an evaporator, in particular for air conditioning systems, with a single header (1) of synthetic material subdivided into an entrance chamber and a backflow chamber, the header being in sealed relationship and firmly connected via a thermosetting synthetic material (4) which a pipe assembly of U-shaped metal pipes held together by air-guiding fins, the ends of the pipes being embedded in the synthetic material, characterized in that the header (1) consists of a manifold (5) comprising several mutually parallel tubular injection- and return chambers (Es and Rs), respectively uniting a multitude of injection apertures (E) and a multitude of return apertures (R), and two collection chambers (Es and Rs) correspondingly joining the injection- and return chambers, and of a junction piece (6) which complements the collection chambers (Es and Rs) and forms connecting pipes (7 and 9) for an injection valve (8) and a compressor suction pipe, the manifold (5) and the junction piece (6) being held together in sealed relationship and firmly connected one with the other via grooves (14, 15) and springs (20, 21) by means of a thermosetting synthetic material.

IPC 1-7

**F28F 9/02**; **F25B 39/02**

IPC 8 full level

**F28D 1/047** (2006.01); **F28F 9/02** (2006.01); **F28F 9/04** (2006.01); **F28F 21/06** (2006.01)

CPC (source: EP)

**F28D 1/0475** (2013.01); **F28F 9/0202** (2013.01); **F28F 9/0246** (2013.01); **F28F 21/067** (2013.01); **F28D 2021/0085** (2013.01)

Cited by

FR2596134A1; EP0164327A1; DE3400048A1; US4590888A; FR2579308A1; US4765658A; FR2512191A1; US6199401B1; EP0359657A1; FR2636417A1; WO9850740A1; WO9014571A1; WO8605567A1; WO8605580A1

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