

Title (en)

Heat exchanger having a tube bundle and plastic header boxes.

Title (de)

Wärmetauscher mit Rohrkanälen und Endkammern aus Kunststoff.

Title (fr)

Echangeur de chaleur à faisceau de tubes et boîtes à fluides en matière plastique.

Publication

EP 0256913 A1 19880224 (FR)

Application

EP 87401736 A 19870724

Priority

FR 8611471 A 19860807

Abstract (en)

1. A heat exchanger of the kind comprising a bundle of parallel tubes (1) and, at one or both ends of the latter, a fluid manifold (2-1, 2-2), of plastics material, with the ends of the tubes (1) penetrating into the fluid manifold in a fluid-tight manner through holes formed in a wall of the fluid manifold which constitutes a collector (27), and further comprising at least one mounting beam (3) extending parallel to the tubes and fixed at one end of the fluid manifold, in a region which is offset with respect to the collector in the longitudinal direction of the tubes and towards the median transverse plane (M) of the latter, the connection between the mounting beam (3) and the fluid manifold being reinforced with ribs (24) having the shape of a right-angled triangle, characterised in that the mounting beam (3) is assembled on a base (23) moulded integrally with the fluid manifold, in that the base (23) extends parallel to the tubes (1), and in that the said base is connected to the fluid manifold by means of the ribs (24), which are themselves also formed by moulding integrally with the fluid manifold.

Abstract (fr)

L'échangeur de chaleur est du type comprenant un faisceau de tubes parallèles (1) et, à chaque extrémité de celui-ci, une boîte à fluide (2-1, 2-2) en matière plastique, ainsi qu'au moins une traverse de montage (3) s'étendant parallèlement aux tubes (1) et fixée respectivement à une extrémité de chaque boîte à fluide au moyen d'une embase (23) venue de moulage avec la boîte à fluide et reliée par des nervures (24) à cette boîte à fluide.

IPC 1-7

F28F 9/00

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

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- [X] EP 0115795 A1 19840815 - SUEDEDEUTSCHE KUEHLER BEHR [DE]
- [A] FR 2472734 A1 19810703 - SUEDEDEUTSCHE KUEHLER BEHR [DE]
- [AP] DE 8629407 U1 19870122

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